Post Abatement Summary

Pierce College Olympic South Abatement and Repairs 9401 Farwest Drive SW Lakewood, Washington 98498

Prepared for:
State of Washington
Department of Enterprise Services
PO Box 41012
Olympia, Washington 98504

August 2022 PBS Project 40535.488



Post Abatement Summary

Pierce College
Olympic South Abatement and Repairs
9401 Farwest Drive SW
Lakewood, Washington 98498

Prepared for:

Washington State Department of Enterprise Services Lakewood, Washington

Prepared by:

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> PBS Project 40535.488 August 2022

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Table of Contents

| 1 | INT | RODUCTION |
|---|-----|--|
| | 1.1 | Initial Discovery |
| | 1.2 | Project Background |
| 2 | ΔSR | BESTOS SURFACE TESTING |
| | | |
| 3 | | ANING/ABATEMENT PROCESS |
| | 3.1 | Surface Cleaning |
| | 3.2 | Content Cleaning |
| | 3.3 | Heating, Ventilation and Air-Conditioning (HVAC) |
| | 3.4 | Electrical Systems |
| | 3.5 | Elevator Hydraulic Fluid |
| | 3.6 | Playground Activities |
| | 3.7 | Cascade 432 Activities |
| | 3.8 | Maintenance Building Activities |
| 4 | REG | ULATED MATERIALS ACTIVITIES |
| | 4.1 | Asbestos-Containing Materials |
| | 4.2 | PCB-Containing Materials |
| | 4.3 | Mercury-Containing Materials |
| 5 | AIR | MONITORING DESCRIPTION |
| | 5.1 | Air Sampling Process |
| | 5.2 | Equipment |
| | 5.3 | Personal Exposure Monitoring |
| | 5.4 | Area Monitoring |
| | 5.5 | Quality Control Procedures |
| | | |
| | 5.6 | Asbestos Air Clearance Testing |
| 6 | | Asbestos Air Clearance Testing |

Supporting Data

APPENDICES

Appendix A: Construction Phase Dust Sampling Information

SVY1.3 First Floor

SVY1.3A Playground Area

SVY2.3 Second Floor

SVY3.3 Third Floor

Construction Phase Dust Sample Inventory

Construction Phase Dust Sample Laboratory Reports and Chain of Custody Documentation

Appendix B: Reports

Pierce College Playground Soil Memorandum (April 2022) Cascade 432 Air Monitoring Letter Report (June 2022)



Appendix C: PBS Documentation

Field Observation Reports, 4/29/2021 to 6/8/2022 Air Sample Data Sheets, 4/30/2021 to 6/6/2022 Air Clearance Sample Inventory Air Clearance Laboratory Data Sheets and Chain of Custody Documentation

Appendix D: Bulk PCB Sampling Information

Bulk PCB Sample Inventory
Bulk PCB Laboratory Data Sheets and Chain of Custody Documentation

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1 INTRODUCTION

1.1 Initial Discovery

PBS Engineering and Environmental Inc. (PBS) was retained by Washington State Department of Enterprise Services (DES) to provide monitoring and observation in conjunction with the Pierce College Early Childhood Education (ECE) Renovations project at the Pierce College Olympic South building located at 9401 Farwest Drive SW in Lakewood, Washington. On March 4, 2021, PBS collected 3 surface dust samples, as part of a visual inspection and clearance activities of the asbestos abatement in the ECE. The samples were collected from the return air plenum space located above the suspended ceiling in the neighboring work areas. All three samples revealed significantly elevated levels of asbestos structures in the accumulated surface dust.

PBS continued asbestos surface dust sampling to define the extent of asbestos contamination. Testing was initiated in the neighboring rooms from the original work area and expanded throughout the entire Olympic South building. As part of the initial investigation approximately 600+ surface dust samples were collected from surfaces, including heating, ventilation, and air conditioning (HVAC) systems throughout all areas of Olympic South and various locations around campus.

The initial investigation found elevated asbestos structures in the accumulated dust of the HVAC system on Levels 1, 2, and 3. Significant asbestos contamination was found on contents of Levels 1 and 2. However, no significant asbestos contamination was discovered on contents on Level 3. See Dust Report dated July 2021, for detailed information regarding the initial dust sampling and discovery effort.

In May 2021 the Dickson Company was hired to isolate the building to prevent asbestos fiber migration. Once the Level 3 HVAC system was sealed from the occupied space, Level 3 contents were removed prior to abatement.

The source of the asbestos contamination was unknown at this point in the investigation.

1.2 Project Background

MacDonald Miller Facility Solutions (MMFS) was the general contractor for the Pierce College Olympic South Abatement and Repairs project. Dickson Company was subcontracted by MMFS for the removal, disposal and cleanup activities. PBS was retained by DES to monitor the abatement and related operations from April 2021 to July 2022. Claire Tsai, Mike Smith, Peter Stensland, Cameron Budnick, Toan Nguyen, Ferman Fletcher, Kaitlin Soukup, and Janet Murphy performed project documentation and air monitoring for PBS during scheduled regulated materials work. Gregg Middaugh served as Project Manager for PBS.

PBS developed Hazardous Material Abatement plans HM1-3 and HM1A to generally define the scope of abatement work. During demolition activities and our ongoing investigation of potential asbestos sources, additional systems were found to have been impacted. Work scope developments and changes during the project are outlined in the Regulated Materials Activities and Cleaning/Abatement Process sections below. For sample diagrams of dust samples collected during construction see Appendix A.

The following is a summary of the dust sampling methodology, abatement process, regulated material activities, air monitoring and information regarding the remaining structure, including PBS' findings and conclusions.



2 ASBESTOS SURFACE TESTING

Settled dust can provide information about past asbestos releases and the presence of fibers that may not be currently airborne. Finding of an elevated asbestos concentration in settled dust indicates the presence of asbestos fibers which have been released and may be available for re-suspension. There is limited understanding of the relationship between surface load and the potential for re-suspension, exposure, and health risk.

PBS uses surface dust sampling as a screening tool to determine the location and extent of potential asbestos contamination. Surface samples were generally collected from the following representative suspect surfaces including but not limited to, floors, window and door sills, countertops, interiors and exteriors of HVAC equipment, supply and return plenums, building transformers, concealed contents, furniture, desks, musical equipment, exteriors of electronics, artwork, tops of books and other exposed items. This is not an exhaustive list

PBS used the American Society for Testing and Materials (ASTM) D5755-09 Standard Test Method for, "Microvacuum Sampling and Indirect Analysis of Dust by Transmission Electron Microscopy for Asbestos Structure Number Surface Loading." The sampler is a pump and filter cassette arrangement through which the air is drawn. A 100 cm² disposable template is placed on the surface in question and the sampler is used like a vacuum cleaner to collect available dust within the template area. This is called the "microvacuum method." The samples were labeled with unique identification numbers, packaged, and delivered with chain-of-custody documentation to Lab/Cor, Inc. of Seattle, Washington. All samples were analyzed by ASTM Method D5755-09 for Asbestos Dust Analysis.

There are no regulatory thresholds for the amount of asbestos in settled dust. Researchers believe that surface dust asbestos concentrations below 1,000 structures/cm² (s/cm²) are <u>unlikely</u> to result in elevated exposures.¹ Background levels of asbestos structures in accumulated dust range from an average of 1,000 s/cm² in non-industrial areas to 10,000 s/cm² in cities and industrial areas where asbestos materials are common. Levels above 10,000 s/cm² are generally considered to be above background in any geographical location. Because this project is a school the team agreed that the 1,000 s/cm² would be used as the cleanup threshold. For this project, if surface dust contained more than 1,000 s/cm² it was considered "elevated" and above the remediation threshold (i.e., 1,000 s/cm²) established for this project.

3 CLEANING/ABATEMENT PROCESS

The Dickson Company performed the following tasks to remediate the asbestos contaminated dust.

An asbestos abatement control plan was developed by Dickson Company for the removal of ACMs and asbestos-contaminated dust to ensure the work was performed in such a manner to minimize and/or eliminate the impact of the asbestos and hazardous materials removal activities to workers, the environment, and areas adjacent to the removal activities. The following is a summary of the process followed by Dickson Company during the removal and clean-up of ACMs at Pierce College related to the Olympic South Abatement and Repairs Project.

All asbestos related work performed on this project was conducted by Washington State Certified Asbestos Supervisors and Workers in accordance with WAC 296-62 and all applicable local, state, and federal

¹ Newman, David. <u>EPA World Trade Center Expert Technical Review Panel on the Issue of Microvac Sampling. May 3, 2004.</u>



August 2022

regulations. All abatement and cleaning work was performed inside regulated and fully contained, negative pressure work areas. Engineering controls included critical barriers that were established at the limits of the work areas. The critical barriers were constructed with polyethylene sheathing (poly) and duct tape and covered all doorways and other openings to the work area. Decontamination and load out chambers were constructed and connected to each of the negative pressure work areas. Differential pressure fans equipped with high-efficiency particulate air (HEPA) filters were established as an engineering control to provide airflow and a negative pressure differential between the containment and the area outside the containment. Once appropriate engineering controls were in place, removal and cleaning activities began. Areas surrounding containments and buildings, including sidewalks, stairs, concrete under the covered play area, and portable walkways were periodically cleaned with HEPA filtered vacuums to help ensure there was no cross-contamination or migration of asbestos to other areas of the school property.

3.1 Surface Cleaning

All surfaces were cleaned systematically throughout all areas impacted by the asbestos release. Workers wet wiped and HEPA vacuumed all surfaces. Rags were wetted with water/surfactant solution and used to wipe contaminated surfaces. Rags were only used once for wiping a surface and then discarded to not cross contaminate other surfaces. After wet wiping, areas were then vacuumed using a HEPA filtered vacuum to lift and remove all disrupted asbestos fibers present on the surface. Areas were cleaned while in containment with airflow created by HEPA filtered fan units. Cleaning was started at a point furthest away from the negative pressure fan units, therefore any asbestos fibers disrupted would be pulled toward the fans and areas yet to be cleaned. Systematically cleaning in this fashion lowers the chances of an area being re-contaminated by suspended asbestos fibers potentially created during the cleaning process. All cleaned surfaces were visually inspected by PBS and confirmation surface testing was performed to help ensure the asbestos had been removed. Clearance air samples were then collected and analyzed after the abatement/cleaning activity was completed in each regulated work area.

3.2 Content Cleaning

PBS provided photographic documentation to the project team of areas inside the building affected by asbestos contamination. A college representative met with building occupants to review the photographs and document which items required saving/cleaning and which items could be disposed. PBS retrieved and segregated items to be saved, cleaned and returned.

Some contents were not considered cleanable because of the nature (e.g., porous fabrics) of the material they were made of, or because the configuration of the item made it impossible to access all surfaces for proper cleaning. Items such as electronics with internal fans and venting where internal components are not accessible are not considered cleanable. Upholstered items such as furniture, stuffed animals, pillows, and rugs are not considered cleanable. Artwork on exposed canvas is considered not cleanable. All College owned uncleanable contents were photo documented and disposed.

Contents requested to be returned were cleaned in a similar process to that described in the Surface Cleaning section above. A regulated work area was established. Workers wet wiped and HEPA vacuumed all "cleanable" contents. Items were moved to an established clean room for PBS industrial hygienists to visually inspect for visible dust. Once cleaning of an item was completed and passed visual inspection PBS used the surface dust sampling methodology to confirm the cleaning conducted by the professional abatement firm (Dickson Company) was adequate to meet the criteria established for this project.

If an item was found to be "uncleanable" a Pierce College Representative discussed the potential asbestos related risks with the owner of the object. If the object owner still wanted to keep the asbestos contaminated



item an "Assumption of Risk Form" was generated and signed by both parties. All personal uncleanable (i.e., asbestos contaminated) items were returned to the owner sealed in poly sheeting and duct tape with a College and PBS representative present.

When requested, paper documents were scanned and provided to the college as digital files. After papers were scanned, they were returned to bags, sealed and disposed of as an ACM waste.

3.3 Heating, Ventilation and Air-Conditioning (HVAC)

All HVAC systems throughout the building were found to be asbestos contaminated. HVAC parts with small openings, electronics, or that contained interior insulation were not considered cleanable. Cleaning and removal of HVAC systems were performed in negative pressure regulated work areas and properly disposed.

3.4 Electrical Systems

PBS tested representative electrical systems throughout the building to see if they had been impacted by the known asbestos contamination in the building. Approximately 10-18 dust samples were collected from each floor of the Olympic South building. Asbestos contamination was found in the electrical system throughout. Due to the limited access of electrical conduit and equipment the system could not be cleaned. All accessible electrical conduit was removed by the Dickson Company. Some electrical conduit is embedded in concrete floor and ceiling slabs. Since these components could not be sampled, they were presumed to be asbestos contaminated. Conduit penetrations into concrete slabs were sealed with fire stop or spray foam and labeled with asbestos warning signage. Electrical conduit runs beneath the building from the vault on the east side of the building to the conduit that daylights in the concrete slab of the former mechanical room. This conduit is presumed contaminated and as such was sealed.

3.5 Elevator Hydraulic Fluid

The elevator shaft and cab were contaminated with asbestos and as such demolished inside a negative pressure enclosure. The elevator system contained hydraulic fluid. PBS tested the elevator hydraulic fluid for PCBs. PCBs were not detected in the sample collected. Dickson Company drained the elevator hydraulic fluid and properly disposed of it.

3.6 Playground Activities

Through the process of discovery and testing of asbestos contamination in Olympic South Building the abatement team identified pieces of equipment (i.e., toys, furniture and educational equipment) that had potentially been moved from inside the ECE lab area to the vehicle drive-through and adjacent storage sheds, prior to the start of the ECE renovation work. As part of the investigation, surface dust samples were collected from equipment located outside the building, in storage sheds, and from open air play structures. Laboratory analysis revealed the presence of elevated asbestos fibers in the surface dust on the equipment and in the sheds and their associated contents.

All storage sheds, their contents, and playground structures were demolished. The remaining soils were seeded for erosion and dust control until further action is taken.

See April 2022 Pierce College Playground Soils Memorandum in Appendix B for further information.

3.7 Cascade 432 Activities

During the clean up of Olympic South, the college notified PBS that theater items previously stored in Olympic South had been moved to Cascade 432. Out of an abundace of caution PBS collected representative dust samples of Cascade Room 432 and it's contents to determine the existence of asbestos contamination. Minor



contamination was found on the contents, in the room, and in the supply and return duct work associated with the room.

In September 2021, the Dickson Company disposed of all contents and cleaned surfaces in the room. PBS industrial hygienists performed visual inspections and clearance testing associated with this cleanup effort in accordance with the Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763.

See the June 2022 Cascade 432 Air Monitoring Letter Report in Appendix B for more information.

3.8 Maintenance Building Activities

During the clean up of Olympic South, the college notified PBS that theater items previously stored in Olympic South had been moved to the Maintenace Building. PBS collected representative dust samples of the Maintentance Building and it's contents to determine the existence of asbestos contamination. Asbestos contamination was not found in the samples collected. Out of an abundance of caution the college decided to dispose of all theater contents stored in the maintenace building. Some tools and theater posters were cleaned with the space.

In September 2021, the Dickson Company disposed contents and cleaned surfaces and requested items in the room. PBS industrial hygienists performed visual inspections and clearance testing associated with this cleanup effort in accordance with the Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763.

4 REGULATED MATERIALS ACTIVITIES

Following is a general summary of regulated materials activities performed as part of the project and observed by PBS.

4.1 Asbestos-Containing Materials

Following is a general summary of asbestos related activities performed as part of the project and observed by PBS. The following asbestos-containing materials were removed:

- Asbestos-containing sheet vinyl flooring and associated mastic Room 161B Kitchen (350 SF)
- Sinks with asbestos-containing undercoating's Rooms 161 Kitchen, 164, 166A, and 285A (5 EA)
- Fireproofing Corrugated roof under decking and trusses of Room 281, 282, 283, 283A, 284A, and south end of associated corridor, south end of Room 278 and the mechanical mezzanine (Approximately 4,500 SF and overspray from wall cavities)
- Asbestos-containing caulking Room 283 (20 LF)
- Asbestos-containing glue dots associated with non-ACM ceiling tiles Rooms 272 and 276 (200 SF)
- Asbestos-contaminated dust from throughout the interior of the building. All finishes, electrical systems, lighting systems and HVAC systems were impacted by the asbestos contamination

4.2 PCB-Containing Materials

All magnetic fluorescent light fixture ballasts are considered suspect PCB-containing. Sixty-three (63) suspect ballasts were found during the project, recovered and disposed by Dickson Company.

4.3 Mercury-Containing Materials

All fluorescent light tubes, lamps and bulbs are considered mercury-containing. Approximately 1,200 fluorescent light tubes, lamps and bulbs were removed, packaged and disposed by the Dickson Company.



The attached PBS Field Observation Reports, located in Appendix C, provide observations of the asbestos abatement and other related activities.

5 AIR MONITORING DESCRIPTION

Air Monitoring performed by PBS is summarized under this section of the report. Air sample data sheets completed during air monitoring operations can be found in Appendix C. Area and clearance sampling was performed by PBS. All clearance airborne fiber counts were within acceptable ranges.

5.1 Air Sampling Process

Air samples are taken to determine representative fiber levels in the air as an index to the potential asbestos content of the air. Air sampling is done to ensure the safety of abatement workers and other personnel in the building and assist in determining whether the building is safe for public occupancy after asbestos is removed. The sampler is a pump and filter cassette arrangement through which air is drawn. The fibers in the air are then deposited on the filter where they can be subsequently analyzed under a microscope.

5.2 Equipment

High-volume air sampling pumps are AC-powered and used when large volumes of relatively clean air need to be sampled. These pumps typically operate at flow rates of about 10 liters of air per minute. Low-volume pumps are battery operated and primarily used for personal monitoring. They operate at 1.0 to 4 liters per minute flow rates.

5.3 Personal Exposure Monitoring

According to the Occupational Safety and Health Administration (OSHA), an employer must perform monitoring to determine the exposure level for each employee, or at least the exposure for each type of task on the abatement project. Breathing zone air samples are collected to represent full shift exposure. This could be one sample or a series of samples representing a period of six to seven hours or more. The Dickson Company was responsible for collecting their own personal air samples.

5.4 Area Monitoring

Ambient air samples are taken to determine representative fiber levels in the air as an index to the potential asbestos content of the air. Air sampling was done to ensure the safety of abatement workers and other personnel in the building in accordance with Washington Administrative Code (WAC) 296-62-077. Air samples are also collected to give daily feedback of ambient air conditions around active abatement areas and to verify that there is no potential cross-contamination between abatement and clean areas. These samples are collected and analyzed in accordance with NIOSH Method 7400 Phase Contrast Microscopy (PCM). PCM analysis does not allow for the distinction of asbestos fibers from non-asbestos fibers. PBS collected daily ambient air samples during all abatement and cleaning activities.

Ambient air samples are collected outside of abatement work areas to detect possible elevated fiber levels because of abatement. Clearance samples (a type of ambient air sample) are taken prior to removing plastic isolation barriers to confirm that the space is safe to reoccupy without respiratory protection.

5.5 Quality Control Procedures

Air sampling pumps are calibrated before and after use to determine accurate flow rates. Microscopes are also frequently adjusted for proper operation. All equipment undergoes routine maintenance to ensure optimal functioning.



PBS analysts have completed air sampling/analysis training courses and participate in an internal quality control program, a national sample exchange program, and the American Industrial Hygiene Association's Proficiency Analytical Testing Program (PAT). This variety of quality control practices ensures the highest possible proficiency.

"Blanks" are unused filter cassettes that are periodically analyzed to determine the level of background fibers on the filters. All samples undergo chain-of-custody documentation. Records are kept of equipment calibration and maintenance.

5.6 Asbestos Air Clearance Testing

PBS was requested to use the Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763 air clearance protocols. This regulation requires collection and analysis of air samples to be performed by transmission electron microscopy (TEM). TEM analysis allows distinction between asbestos fibers and non-asbestos fibers.

AHERA requires that the average concentration of the total samples collected in the contained area is less than 70 structures per square millimeter (s/mm²). All areas where asbestos abatement/cleaning took place were cleared using this method in addition to surface sampling. All samples were labeled with unique identification numbers, packaged, and delivered with chain-of-custody documentation to Lab/Cor, Inc. of Seattle, Washington.

Clearance air samples were collected in the following regulated areas:

- Cascade Room 432
- Maintenance Building
- Level 3
- Level 2
- Level 1
- East Stairwell

All clearance air samples met the regulatory criteria set by AHERA.

A table of asbestos air sampling laboratory data can be found in Appendix C.

6 REMAINING STRUCTURE

Some materials containing asbestos remain in the building.

The following materials were determined to contain greater than 1% asbestos:

- Marble Crete exposed and concealed under plaster and EIFS in various locations—Building exterior
 north elevation on first and second floors, east elevation on first and second floors, west elevation
 north area on first and second floors, and south elevation on Level 1
- CMU South area of Level 2
- Plaster The underside of Level 2 skybridge from Olympic South to Cascade
- **Black mastic** Located below the sill plate of the perimeter metal wall studs throughout the second floor



- **Residual grey sealant and white caulking** beneath non-asbestos dark grey sealant –Level 1 south and east store front windows, Level 1 and 2 north elevation windows, Northwest stairwell/ storefront windows Level 1 and 2, south elevation of the northeast quadrant windows
- Concealed brown/grey adhesive –Window rough openings on Level 1 south store front windows, Level 1 and 2 north elevation windows, south elevation of the northeast quadrant windows, west elevation three southern windows

The following materials were determined to contain less than 1% asbestos:

- Plaster Exterior of east stairwell Levels 1, 2 and 3
- Concrete All concrete throughout building and stairwell
- Site soils All non-hardscaped areas surrounding the building

Asbestos contaminated dust is presumed to exist in the following locations:

- Sealed conduit embedded in concrete ceiling and floor slabs Throughout the building
- Sealed Conduit buried beneath slab
- Sealed structural brace framing interiors All floors and stairwell
- Sealed exterior column cavities South and east elevations
- Sealed cavity below skybridge to Cascade
- Transformer West elevation between Olympic South and Olympic North
- Exterior power shut off panel and conduit West elevation
- Sub grade electrical vaults East and west elevations
- Conduit associated with emergency power Level 1 north area overhead conduit runs from Cascade to Olympic North
- Emergency power disconnect Near northeast entrance

See the Pierce College Olympic South Post Abatement Hazardous Materials Survey Report dated July 2022 for further details.

7 CONCLUSIONS

Asbestos-contaminated dust was discovered in the accumulated dust in various areas of the building on Levels 1, 2, and 3. Significant asbestos contamination was also found on contents of Level's 1 and 2. Extensive testing revealed no significant contamination on surfaces of the occupied space of Level 3.

It is PBS's opinion that the following materials have likely contributed to the widespread contamination found in the building: demolished Marble Crete, CMU and fireproofing on second floor, and concrete throughout the building.

All abatement work was performed in accordance with State of Washington regulations. All final visual inspections and air monitoring were in compliance with state and federal regulations.

All interior finishes and most systems were removed, and the remaining structure was cleaned by the Dickson Company. PBS Engineering and Environmental conducted oversight during the abatement process, postabatement visual inspections and clearance testing to ensure all areas were safe to reoccupy. A total of



approximately 1800+ air samples and 1,100+ surface dust samples were collected throughout the discovery, oversight and clearance processes. Final laboratory analysis in all areas revealed that the surface dust threshold established for this project and the air clearance testing criteria required by EPA were met. Areas inaccessible for cleaning were sealed. It is PBS' opinion that the building is safe to reoccupy.

Please do not hesitate to contact us if you have any questions regarding this report or require additional information.

Report prepared by:

Claire Tsai AHERA Building Inspector Cert. No. IRO-21-7316B Exp. 12/10/2022

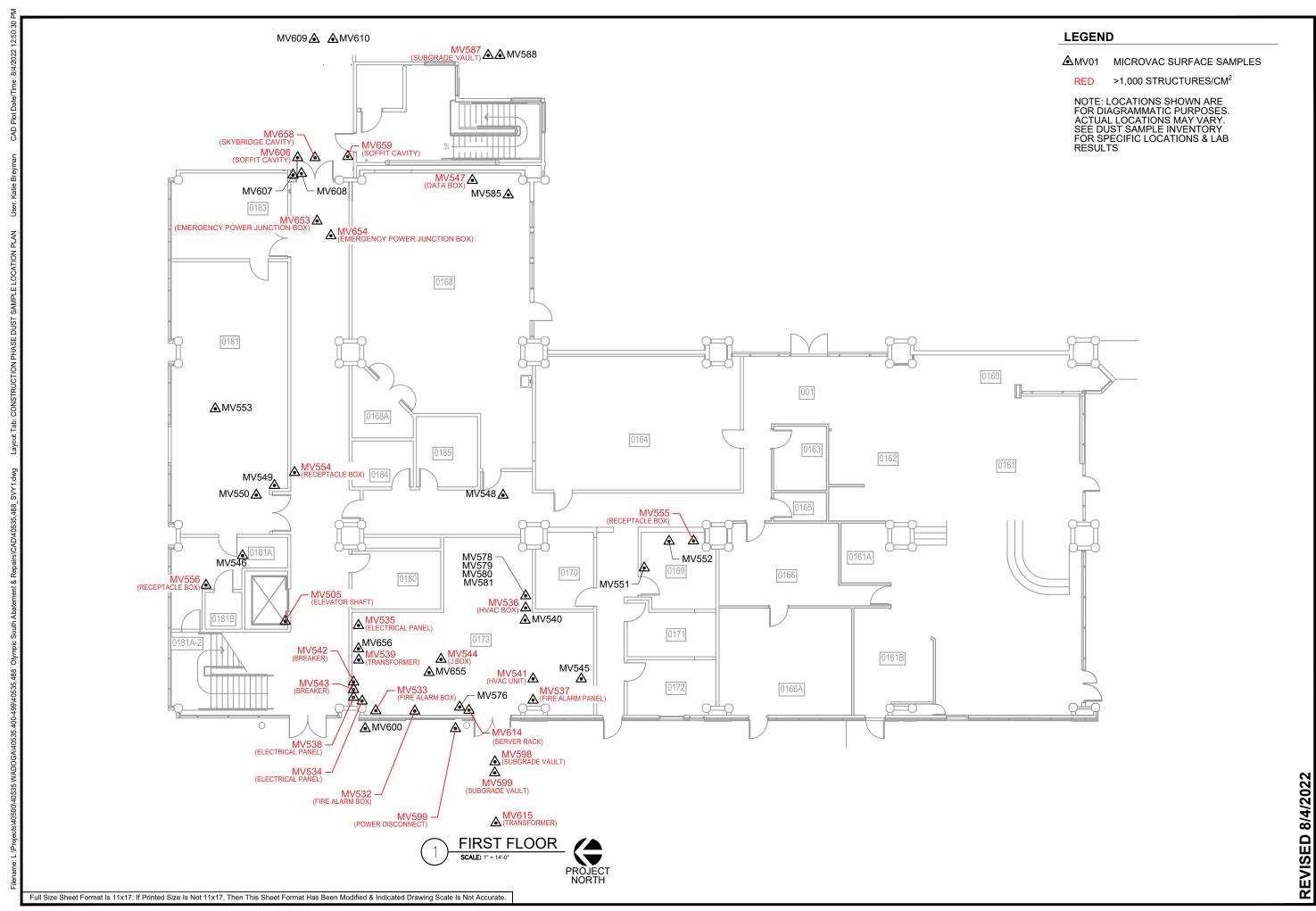
Report Reviewed by: Gregg Middaugh Senior Project Manager/Industrial Hygienist II



APPENDIX A

Construction Phase Dust Sampling Information

SVY1.3 First Floor
SVY1.3A Playground Area
SVY2.3 Second Floor
SVY3.3 Third Floor
Construction Phase Dust Sample Inventory
Construction Phase Dust Sample Laboratory Reports and Chain of Custody Documentation



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PIERCE COLLEGE - OLYMPIC SOUTH ABATEMENT & REPAIRS CONSTRUCTION PHASE DUST SAMPLE LOCATION PLAN

9401 FARWEST DRIVE SOUTHWEST, LAKEWOOD, WASHINGTON

PROJECT

40535.488

DATE AUG 2022

SHEET ID

PBS

CONSTRUCTION PHASE DUST SAMPLE LOCATION PLAN PIERCE COLLEGE - OLYMPIC SOUTH ABATEMENT & REPAIRS 9401 FARWEST DRIVE SOUTHWEST, LAKEWOOD, WASHINGTON

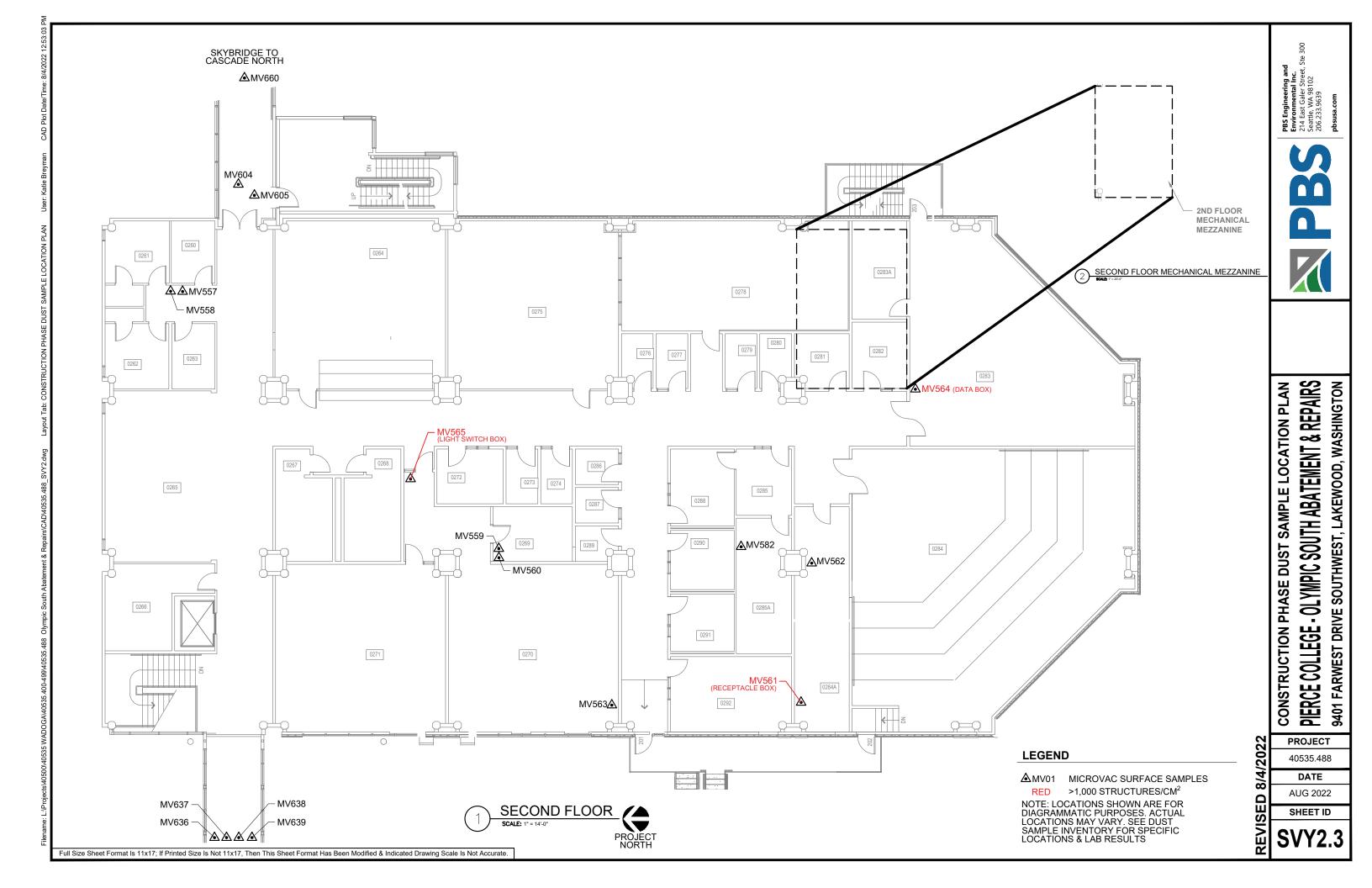
PROJECT

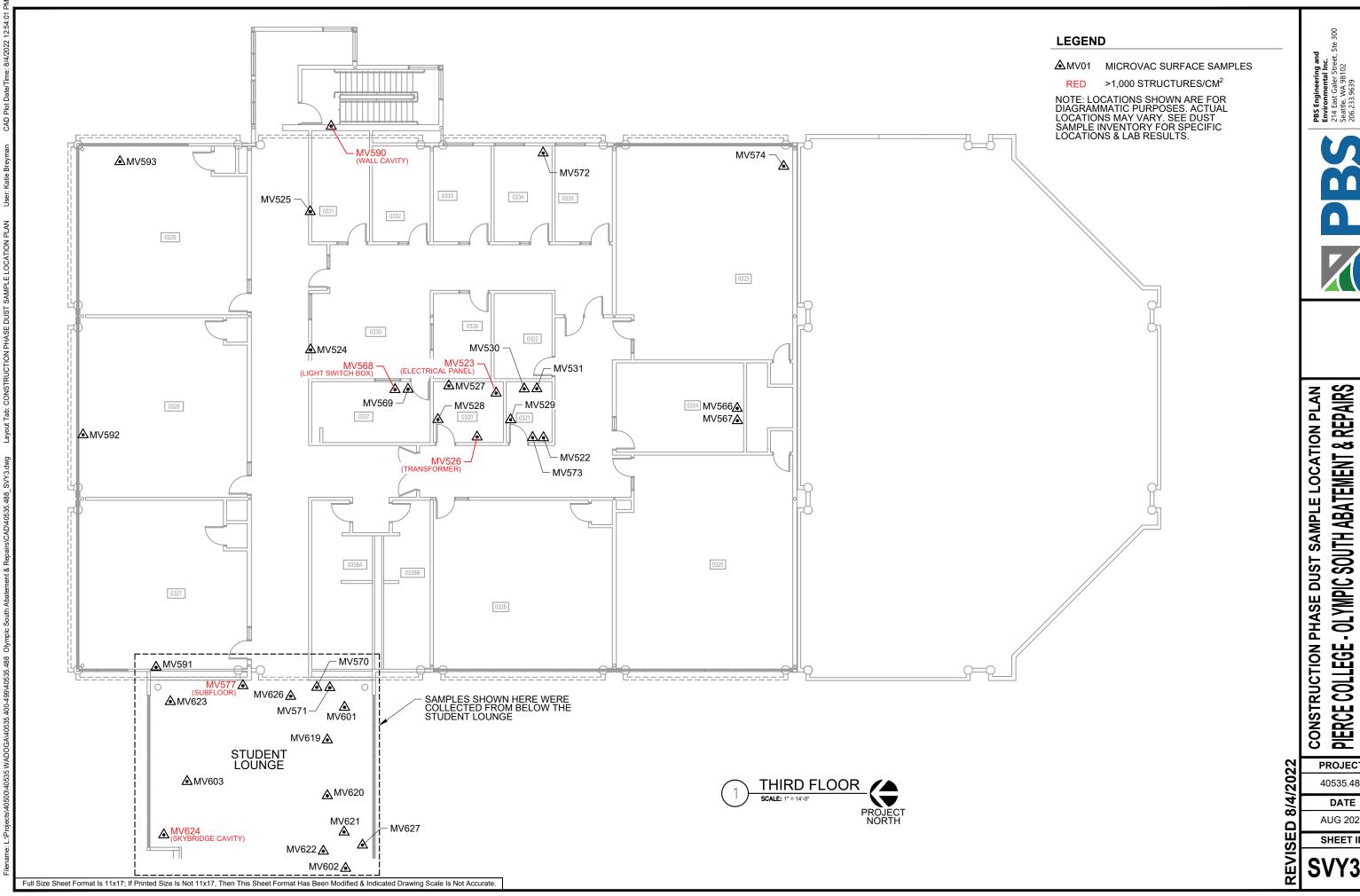
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DATE AUG 2022

SHEET ID

SVY1.3A







PIERCE COLLEGE - OLYMPIC SOUTH ABATEMENT & REPAIRS 9401 FARWEST DRIVE SOUTHWEST, LAKEWOOD, WASHINGTON

PROJECT

40535.488

AUG 2022

SHEET ID

| <u>PBS</u> Sample # | <u>Material</u> | Sample Location | <u>Lab Result</u> (struc/cm2) | <u>Analyte</u> | <u>Lab report</u> <u>Date</u> | <u>Lab</u> |
|------------------------|--------------------|---|----------------------------------|-------------------------------|----------------------------------|------------|
| MV505 | Dust - 100cm2 area | Olympic South elevator shaft from doors | 3,157 | 3 Chrysotile | 7/27/2021 | Lab/Cor |
| MV506A | Dust - 100cm2 area | Olympic North Room 104 Laser cutter exhaust tube | <993 | - | 8/12/2021 | Lab/Cor |
| MV506 | Dust - 100cm2 area | Blue kiddie pool – North shed – ECE | 4,385 | 5 Chrysotile | 9/7/2021 | Lab/Cor |
| MV507 | Dust - 100cm2 area | Black toy truck – North shed – ECE | <877 | - | 9/7/2021 | Lab/Cor |
| MV508 | Dust - 100cm2 area | Plastic water pitcher – North shed – ECE | 3,508 | 4 Chrysotile | 9/7/2021 | Lab/Cor |
| MV509 | Dust - 100cm2 area | Blue & red kids' life-jacket – North shed – ECE | <877 | - | 9/7/2021 | Lab/Cor |
| MV510 | Dust - 100cm2 area | Bowling pin – North shed – ECE | 877 | 1 Chrysotile | 9/7/2021 | Lab/Cor |
| MV511 | Dust - 100cm2 area | Black swimming flipper – Central shed – ECE | 65,242 | 29 Chrysotile 2 Actinolite | 9/7/2021 | Lab/Cor |
| MV512 | Dust - 100cm2 area | Wooden, stackable box – Central shed – ECE | <877 | - | 9/7/2021 | Lab/Cor |
| MV513 | Dust - 100cm2 area | Metal alloy dish – Central shed – ECE | 25,255 | 12 Chrysotile | 9/7/2021 | Lab/Cor |
| MV514 | Dust - 100cm2 area | Connectable wooden pieces – Central shed – ECE | <877 | - | 9/7/2021 | Lab/Cor |
| MV515 | Dust - 100cm2 area | Yellow toy play set – Central shed – ECE | 35,395 | 37 Chrysotile | 9/7/2021 | Lab/Cor |
| MV516 | Dust - 100cm2 area | Blue & white gym mat – South shed – ECE | 10,523 | 11 Chrysotile 1 Amosite | 9/7/2021 | Lab/Cor |
| MV517 | Dust - 100cm2 area | Yellow studded flooring – traffic play set – South shed – ECE | <877 | - | 9/7/2021 | Lab/Cor |
| MV518 | Dust - 100cm2 area | Stop sign – traffic play set – South shed – ECE | 1,754 | 2 Chrysotile | 9/7/2021 | Lab/Cor |
| MV519 | Dust - 100cm2 area | Orange plastic wheelbarrow – South shed – ECE | <877 | - | 9/7/2021 | Lab/Cor |

July 2022 1 of 10

| Washingt | on Department of E | nterprise Services MV | | PBS | Project # 4 | 0535.488 |
|-----------------|--------------------|---|----------------------------------|----------------|----------------------------------|------------|
| PBS Sample # | <u>Material</u> | Sample Location | <u>Lab Result</u> (struc/cm2) | <u>Analyte</u> | <u>Lab report</u> <u>Date</u> | <u>Lab</u> |
| MV520 | Dust - 100cm2 area | Black faux leather football – South shed – ECE | <877 | - | 9/7/2021 | Lab/Cor |
| MV521 | | Field Blank | N/A | - | 9/7/2021 | Lab/Cor |
| MV522 | Dust - 100cm2 area | AC Unit Intake Room 321 | 877 | 1 Tremolite | 9/15/2021 | Lab/Cor |
| MV523 | Dust - 100cm2 area | RM 320 inside base of H7RB Sec 2 Electric Panel | 2,505 | 1 Chrysotile | 9/15/2021 | Lab/Cor |
| MV524 | Dust - 100cm2 area | RM 330 reception north wall above ceiling conduit penetration | <877 | - | 9/15/2021 | Lab/Cor |
| MV 525 | Dust - 100cm2 area | RM 331 north wall above ceiling at conduit penetration | <957 | - | 9/15/2021 | Lab/Cor |
| MV 526 | Dust - 100cm2 area | Rm. 320 Transformer base | 4,783 | 1 Actinolite | 9/24/2021 | Lab/Cor |
| MV 527 | Dust - 100cm2 area | Rm. 320 Inside electrical panel H7RA | <993 | - | 9/24/2021 | Lab/Cor |
| MV 528 | Dust - 100cm2 area | Rm. 320 inside LVP – 1 | <957 | - | 9/24/2021 | Lab/Cor |
| MV 529 | Dust - 100cm2 area | Rm. 321 Fire Alarm Pull – Box base | <999 | - | 9/24/2021 | Lab/Cor |
| MV 530 | Dust - 100cm2 area | Rm. 321 Security Pull Box base | <877 | - | 9/24/2021 | Lab/Cor |
| MV 531 | Dust - 100cm2 area | Rm. 321 Superterm box #13 base | <877 | - | 9/24/2021 | Lab/Cor |
| MV 532 | Dust - 100cm2 area | Mech. 173 – Fire alarm box base | 389,348 | 37 Chrysotile | 9/24/2021 | Lab/Cor |
| MV 533 | Dust - 100cm2 area | Mech. 173 – ADM. Box base | 84,183 | 8 Chrysotile | 9/24/2021 | Lab/Cor |
| MV 534 | Dust - 100cm2 area | Mech. 173 – H7LA Disconnect box base | 121,013 | 23 Chrysotile | 9/24/2021 | Lab/Cor |
| MV 535 | Dust - 100cm2 area | Mech. 173 – Panel F5LX base | 263,073 | 25 Chrysotile | 9/24/2021 | Lab/Cor |
| MV 536 | Dust - 100cm2 area | Mech. 173 – HVAC control box base | 1,754 | 2 Chrysotile | 9/24/2021 | Lab/Cor |
| MV 537 | Dust - 100cm2 area | Mech. 173 – Fire alarm main panel inside | 31,569 | 36 Chrysotile | 9/24/2021 | Lab/Cor |

PBS Engineering + Environmental

Pierce College Olympic South Abatement and Repairs

July 2022 2 of 10

| Washingt | on Department of E | nterprise Services MV | | PBS | Project # 4 | 0535.488 |
|-----------------|---------------------|--|----------------------------------|-------------------------------|----------------------------------|------------|
| PBS Sample # | <u>Material</u> | Sample Location | <u>Lab Result</u> (struc/cm2) | <u>Analyte</u> | <u>Lab report</u> <u>Date</u> | <u>Lab</u> |
| MV 538 | Dust - 100cm2 area | Mech. 173 – F5RA base | 63,137 | 3 Chrysotile | 9/24/2021 | Lab/Cor |
| MV 539 | Dust - 100cm2 area | Rm. 173 Transformer base | 3,408,253 | 106 Chrysotile | 9/23/2021 | Lab/Cor |
| MV 540 | Dust - 100cm2 area | Rm. 173 Johnson Control FEC2611 – HVAC control | <804 | - | 9/24/2021 | Lab/Cor |
| MV 541 | Dust - 100cm2 area | Rm. 173. ABB HVAC unit | 1,608 | 2 Chrysotile | 9/24/2021 | Lab/Cor |
| MV 542 | Dust - Unknown area | Mech 173 Panel F5RA Breaker 1 | Present | 12 Chrysotile 1 Actinolite | 9/30/2021 | Lab/Cor |
| MV 543 | Dust - Unknown area | Mech 173 Panel F5RA Breaker 39 | Present | 23 Chrysotile | 9/30/2021 | Lab/Cor |
| MV 544 | Dust - Unknown area | Mech 173 Fire alarm conduit to J box blank | Present | 1 Chrysotile | 9/30/2021 | Lab/Cor |
| MV 545 | Dust - Unknown area | Mech 173 Conduit to VFD with wires | Absent | - | 9/30/2021 | Lab/Cor |
| MV 546 | Dust - Unknown area | Room 181A J-box to Mech 173 conduit with wire | Absent | - | 9/30/2021 | Lab/Cor |
| MV 547 | Dust - Unknown area | Room 168 data/phone box | Present | 9 Chrysotile | 9/30/2021 | Lab/Cor |
| MV 548 | Dust - Unknown area | 168 corridor data conduit with wire | Absent | - | 9/30/2021 | Lab/Cor |
| MV 549 | Dust - Unknown area | Room 181 west light switch box | Absent | - | 9/30/2021 | Lab/Cor |
| MV 550 | Dust - Unknown area | Room 181 light switch conduit J-box to F5LA #6 | Absent | - | 9/30/2021 | Lab/Cor |
| MV 551 | Dust - Unknown area | Room 169 light switch north wall | Absent | - | 9/30/2021 | Lab/Cor |
| MV 552 | Dust - Unknown area | Room 169 data box east wall | Absent | - | 9/30/2021 | Lab/Cor |
| MV 553 | Dust - Unknown area | Room 181 middle room data box | Absent | - | 9/30/2021 | Lab/Cor |
| MV 554 | Dust - Unknown area | Receptacle box across from Room 184 north wall | Present | 110 Chrysotile | 9/30/2021 | Lab/Cor |

PBS Engineering + Environmental

Pierce College Olympic South Abatement and Repairs

July 2022 3 of 10

| Washingt | on Department of E | nterprise Services MV | | PBS | S Project # 4 | 0535.488 |
|-------------------------------|---------------------|---|---------------------------|----------------|----------------------------------|------------|
| <u>PBS</u> <u>Sample #</u> | <u>Material</u> | Sample Location | Lab Result (struc/cm2) | <u>Analyte</u> | <u>Lab report</u> <u>Date</u> | <u>Lab</u> |
| MV 555 | Dust - Unknown area | Receptacle box room 169 east wall | Present | 1 Richterite | 9/30/2021 | Lab/Cor |
| MV 556 | Dust - Unknown area | Receptacle box 181A adjacent to door of 181B | Present | 6 Chrysotile | 9/30/2021 | Lab/Cor |
| MV 557 | Dust - Unknown area | Data box – adjacent to O260 door | Absent | - | 9/30/2021 | Lab/Cor |
| MV 558 | Dust - Unknown area | Data conduit – adjacent to O260 door | Absent | - | 9/30/2021 | Lab/Cor |
| MV 559 | Dust - Unknown area | Light switch – O269 – North wall | Absent | - | 9/30/2021 | Lab/Cor |
| MV 560 | Dust - Unknown area | Light switch conduit – O269 ->H6CA | Absent | - | 9/30/2021 | Lab/Cor |
| MV 561 | Dust - Unknown area | Receptacle box – 284A – NW wall | Present | 21 Chrysotile | 9/30/2021 | Lab/Cor |
| MV 562 | Dust - Unknown area | Receptacle conduit – 284A – HCRB, breaker 12+26 | Absent | - | 9/30/2021 | Lab/Cor |
| MV 563 | Dust - Unknown area | Receptacle box – 270 – SW wall | Absent | - | 9/30/2021 | Lab/Cor |
| MV 564 | Dust - Unknown area | Data box – O283 – South wall – by piano | Present | 2 Chrysotile | 9/30/2021 | Lab/Cor |
| MV 565 | Dust - Unknown area | Light switch – Corridor of O269-271 – South wall | Present | 13 Chrysotile | 9/30/2021 | Lab/Cor |
| MV 566 | Dust - Unknown area | Receptacle box – O324 | Absent | - | 9/30/2021 | Lab/Cor |
| MV 567 | Dust - Unknown area | Receptacle conduit – O324 -> H7RB | Absent | - | 9/30/2021 | Lab/Cor |
| MV 568 | Dust - Unknown area | Light switch – Break/printer room of O330 | Present | 1 Chrysotile | 9/30/2021 | Lab/Cor |
| MV 569 | Dust - Unknown area | Light switch conduit – Break/printer room of O330 -> H7LA | Absent | - | 9/30/2021 | Lab/Cor |
| MV 570 | Dust - Unknown area | Data box – 3rd Fl. student lounge – E. wall | Absent | - | 9/30/2021 | Lab/Cor |
| MV 571 | Dust - Unknown area | Data box conduit – 3rd Fl. student lounge – E. wall -> floor plenum | Absent | - | 9/30/2021 | Lab/Cor |

PBS Engineering + Environmental

Pierce College Olympic South Abatement and Repairs

July 2022 4 of 10

| | ton Department of E | nterprise Services MV | | PBS Engineer | Fing + Environments Froject # 4 | |
|------------------------|---------------------|--|----------------------------------|----------------|----------------------------------|------------|
| <u>PBS</u> Sample # | <u>Material</u> | Sample Location | <u>Lab Result</u> (struc/cm2) | <u>Analyte</u> | <u>Lab report</u> <u>Date</u> | <u>Lab</u> |
| MV 572 | Dust - Unknown area | Receptacle box – Office room O334/O335 | Absent | - | 9/30/2021 | Lab/Cor |
| MV 573 | Dust - Unknown area | Light switch – 3rd Fl. IDF room -> J-box-> H7LA | Absent | - | 9/30/2021 | Lab/Cor |
| MV 574 | Dust - Unknown area | Data box – O323 – SE wall. | Absent | - | 9/30/2021 | Lab/Cor |
| MV 575 | | Field Blank | NA | - | 9/30/2021 | Lab/Cor |
| MV 576 | Dust - 100cm2 area | Mech 173 Jace unit | <804 | - | 10/1/2021 | Lab/Cor |
| MV 577 | Dust - 100cm2 area | 3rd Fl. Student lounge sub-floor | 1,608 | 1 Chrysotile | 9/30/2021 | Lab/Cor |
| MV 578 | Dust - 100cm2 area | Mech Room 173 Johnson Control HVAC control RY11335 | <804 | - | 10/7/2021 | Lab/Cor |
| MV 579 | Dust - 100cm2 area | Mech Room 173 Johnson Control HVAC control RY11341 | <804 | - | 10/7/2021 | Lab/Cor |
| MV 580 | Dust - 100cm2 area | Mech Room 173 Johnson Control HVAC control RY11406 | <804 | - | 10/7/2021 | Lab/Cor |
| MV 581 | Dust - 100cm2 area | Mech Room 173 Johnson Control HVAC control RY11408 | 804 | 1 Actinolite | 10/7/2021 | Lab/Cor |
| MV 582 | Dust - 100cm2 area | Olympic South Room 285A Inside Guitar | <804 | - | 10/14/2021 | Lab/Cor |
| MV 583 | Dust - 100cm2 area | Cascade 432 supply fiberglass lined duct | 9,646 | 2 Chrysotile | 10/21/2021 | Lab/Cor |
| MV 584 | Dust - 100cm2 area | Cascade 432 return fiberglass lined duct | 19,292 | 1 Chrysotile | 10/21/2021 | Lab/Cor |
| MV 585 | Dust - 100cm2 area | Olympic South Room 168 Wooden Clock Inside Case | <804 | - | 11/3/2021 | Lab/Cor |
| MV 586 | | Field Blank | NA | - | 11/3/2021 | Lab/Cor |
| MV 587 | Dust - 100cm2 area | Olympic South, East Elevation subgrade power vault fire conduit | 3,858 | 2 Chrysotile | 1/10/2022 | Lab/Cor |
| MV 588 | Dust - 100cm2 area | Olympic South, East Elevation subgrade power vault power conduit | <965 | - | 1/10/2022 | Lab/Cor |
| MV 589 | | Field Blank | NA | - | 1/10/2022 | Lab/Cor |

PBS Engineering + Environmental

Pierce College Olympic South Abatement and Repairs

July 2022 5 of 10

| <u>PBS</u> Sample # | <u>Material</u> | Sample Location | Lab Result (struc/cm2) | <u>Analyte</u> | <u>Lab report</u> <u>Date</u> | <u>Lab</u> |
|------------------------|--------------------|--|---------------------------|---|----------------------------------|------------|
| MV 590 | Dust - 100cm2 area | East level 3 stairwell west wall cavity I-beam from Level 3 subfloor | 9,646 | 1 Chrysotile | 1/6/2022 | Lab/Cor |
| MV 591 | Dust - 100cm2 area | Level 3 Above gypsum ceiling between framing and I-beam west wall north | <965 | - | 1/10/2022 | Lab/Cor |
| MV 592 | Dust - 100cm2 area | Level 3 Above gypsum ceiling between framing and I-beam North central area | <965 | - | 1/10/2022 | Lab/Cor |
| MV 593 | Dust - 100cm2 area | Level 3 Above gypsum ceiling between framing and I-beam east wall north | <984 | - | 1/10/2022 | Lab/Cor |
| MV 594 | Dust - 100cm2 area | Olympic North 106 inside Fire panel | <804 | - | 1/12/2022 | Lab/Cor |
| MV 595 | Dust - 100cm2 area | Olympic North 106 SE area top of elevator cart lights panel below Panel 1HN2 | <965 | - | 1/12/2022 | Lab/Cor |
| MV 596 | | Field Blank | NA | - | 1/12/2022 | Lab/Cor |
| MV 597 | Dust - 100cm2 area | Olympic South, West Elevation west subgrade power vault cable | 7,717 | 4 Actinolite 3 Chrysotile 1 Tremolite | 1/25/2022 | Lab/Cor |
| MV 598 | Dust - 100cm2 area | Olympic South, West Elevation east subgrade power vault cable | 2,894 | 3 Actinolite | 1/25/2022 | Lab/Cor |
| MV 599 | Dust - 100cm2 area | Olympic South, West Elevation Main Disconnect panel | 130,221 | 25 Chrysotile 2 Actinolite | 2/11/2022 | Lab/Cor |
| MV 600 | Dust - 100cm2 area | Olympic South, West Elevation conduit to main disconnect panel | 804 | 1 Chrysotile | 2/11/2022 | Lab/Cor |
| MV 601 | Dust - 100cm2 area | Olympic South, Student Lounge Underdeck East Side 10ft Out (S) | <804 | - | 2/15/2022 | Lab/Cor |
| MV 602 | Dust - 100cm2 area | Olympic South, Student Lounge Underdeck West Side (S) | <804 | - | 2/15/2022 | Lab/Cor |
| MV 603 | Dust - 100cm2 area | Olympic South, Student Lounge Underdeck Central (N) | 804 | 1 Chrysotile | 2/15/2022 | Lab/Cor |
| MV 604 | Dust - 100cm2 area | Cascade to Olympic South Skybridge west area top of light fixture | <877 | - | 2/16/2022 | Lab/Cor |
| MV 605 | Dust - 100cm2 area | Cascade to Olympic South Skybridge west area junction box cover plate | 804 | 1 Tremolite | 2/16/2022 | Lab/Cor |

| <u>PBS</u> Sample # | <u>Material</u> | Sample Location | Lab Result (struc/cm2) | <u>Analyte</u> | <u>Lab report</u> <u>Date</u> | <u>Lab</u> |
|------------------------|--------------------|---|---------------------------|-------------------------------|----------------------------------|------------|
| MV 606 | Dust - 100cm2 area | Olympic South LV1 east elevation landing cavity above door | 1,608 | 1 Actinolite | 2/16/2022 | Lab/Cor |
| MV 607 | Dust - 100cm2 area | Olympic South LV1 east elevation landing cavity above door north conduit cover | <804 | - | 2/16/2022 | Lab/Cor |
| MV 608 | Dust - 100cm2 area | Olympic South LV1 east elevation landing cavity above door south conduit cover | <804 | - | 2/16/2022 | Lab/Cor |
| MV 609 | Dust - 100cm2 area | Olympic South LV1 east elevation conduit below skybridge Cascade side north conduit cover | <804 | - | 2/16/2022 | Lab/Cor |
| MV 610 | Dust - 100cm2 area | Olympic South LV1 east elevation conduit below skybridge Cascade side south conduit cover | <804 | - | 2/16/2022 | Lab/Cor |
| MV 611 | Dust - 100cm2 area | Olympic South Robin's nest garden shed blue wood stand | 965 | 1 Chrysotile | 2/16/2022 | Lab/Cor |
| MV 612 | Dust - 100cm2 area | Olympic South covered shed west elevation wood shelf | 21,221 | 17 Chrysotile 5 Actinolite | 2/16/2022 | Lab/Cor |
| MV 613 | Dust - 100cm2 area | Olympic South short shed tricycle on platform | 804 | 1 Chrysotile | 2/16/2022 | Lab/Cor |
| MV 614 | Dust - 100cm2 area | Room 173 server rack equipment composite | 21,221 | 22 Chrysotile | 2/16/2022 | Lab/Cor |
| MV 615 | Dust - 100cm2 area | West Elevation Transformer between Olympic South and North | 14,469 | 4 Actinolite 11 Chrysotile | 2/21/2022 | Lab/Cor |
| MV 616 | Dust - 100cm2 area | South Elevation Robin's Nest wood counter | 6,029 | 2 Chrysotile | 2/21/2022 | Lab/Cor |
| MV 617 | Dust - 100cm2 area | Southwest Elevation short shed wood platform floor | 6,752 | 4 Actinolite 3 Chrysotile | 2/21/2022 | Lab/Cor |
| MV 618 | | Field Blank | NA | - | 2/21/2022 | Lab/Cor |
| MV 619 | Dust - 100cm2 area | Skybridge SE | <804 | - | 3/1/2022 | Lab/Cor |
| MV 620 | Dust - 100cm2 area | Skybridge S Center | <804 | - | 3/1/2022 | Lab/Cor |
| MV 621 | Dust - 100cm2 area | Skybridge SW | <804 | - | 3/1/2022 | Lab/Cor |

July 2022 7 of 10

| | ton Department of E | interprise Services MV | | _ | S Project # 4 | |
|------------------------|---------------------|---|----------------------------------|------------------------------|----------------------------------|------------|
| <u>PBS</u> Sample # | <u>Material</u> | Sample Location | <u>Lab Result</u> (struc/cm2) | <u>Analyte</u> | <u>Lab report</u> <u>Date</u> | <u>Lab</u> |
| MV 622 | Dust - 100cm2 area | Skybridge W Center | <804 | - | 3/1/2022 | Lab/Cor |
| MV 623 | Dust - 100cm2 area | Skybridge NE | <804 | - | 3/1/2022 | Lab/Cor |
| MV 624 | Dust - 100cm2 area | Skybridge NW | 1,608 | 2 Chrysotile | 3/1/2022 | Lab/Cor |
| MV 625 | | Field Blank | NA | - | 3/1/2022 | Lab/Cor |
| MV 626 | Dust - 100cm2 area | Skybridge S Containment NE Corner Layer 2 (2 Layers) | <965 | - | 3/10/2022 | Lab/Cor |
| MV 627 | Dust - 100cm2 area | Skybridge S Containment SW Skybridge (1 Layer) | <965 | - | 3/10/2022 | Lab/Cor |
| MV 628 | | Field Blank | NA | - | 3/10/2022 | Lab/Cor |
| MV 629 | Dust - 100cm2 area | Playground Tunnel | 4,368 | 2 Chrysotile | 3/16/2022 | Lab/Cor |
| MV 630 | Dust - 100cm2 area | Playground Yellow and Orange Equipment | 5,460 | 4 Chrysotile 1 Actinolite | 3/16/2022 | Lab/Cor |
| MV 631 | Dust - 100cm2 area | Olympic North Hallway ceiling fire junction box near Room 203 | <910 | - | 3/31/2022 | Lab/Cor |
| MV 632 | Dust - 100cm2 area | Olympic North Room 228 east wall north 4" blank conduit | <910 | - | 3/31/2022 | Lab/Cor |
| MV 633 | Dust - 100cm2 area | Olympic North Room 228 east wall south 4" blank conduit | <910 | - | 3/31/2022 | Lab/Cor |
| MV 634 | Dust - 100cm2 area | Olympic North Room 228 Santa Box | <910 | - | 3/31/2022 | Lab/Cor |
| MV 635 | | Field Blank | NA | - | 3/31/2022 | Lab/Cor |
| MV 636 | Dust - 100cm2 area | E Skybridge Large Blank N Conduit to Olympic N | <910 | - | 4/11/2022 | Lab/Cor |
| MV 637 | Dust - 100cm2 area | E Skybridge Large Blank S Conduit to Olympic N | <910 | - | 4/11/2022 | Lab/Cor |
| MV 638 | Dust - 100cm2 area | Olympic North Emergency Power Junction Box S conduit (group of 4) | <910 | - | 4/11/2022 | Lab/Cor |
| MV 639 | Dust - 100cm2 area | Olympic North Radiant Heat Junction Box N Panel Along Construct. Wall | <910 | - | 4/11/2022 | Lab/Cor |
| MV 640 | Dust - 100cm2 area | Olympic N Room 228 S Central Conduit with large black wires | <910 | - | 4/14/2022 | Lab/Cor |

PBS Engineering + Environmental

Pierce College Olympic South Abatement and Repairs

July 2022 8 of 10

| | ollege Olympic South ton Department of E | n Abatement and Repairs Construction Phase Interprise Services MV | | PBS Enginee | ring + Envir S Project # 4 | |
|------------------------|---|---|----------------------------------|-----------------------------|----------------------------------|------------|
| <u>PBS</u> Sample # | <u>Material</u> | Sample Location | <u>Lab Result</u> (struc/cm2) | <u>Analyte</u> | <u>Lab report</u> <u>Date</u> | <u>Lab</u> |
| MV 641 | Dust - 100cm2 area | Olympic N Room 228 SW floor | <993 | - | 4/14/2022 | Lab/Cor |
| MV 642 | - | Field Blank | NA | - | 4/14/2022 | Lab/Cor |
| MV643 | Dust - 100cm2 area | Olympic South level 3 northwest roof cover southeast insulation | <910 | - | 4/26/2022 | Lab/Cor |
| MV644 | Dust - 100cm2 area | Olympic South level 3 large south roof cover northeast insulation | <910 | - | 4/26/2022 | Lab/Cor |
| MV645 | Dust - 100cm2 area | Olympic South level 3 large south roof cover southeast insulation | <910 | - | 4/26/2022 | Lab/Cor |
| MV646 | | Field Blank | NA | - | 4/26/2022 | Lab/Cor |
| MV647 | Dust - 100cm2 area | Sunrise building Electrical Room Box from Conduit A | 910 | 1 Actinolite | 4/27/2022 | Lab/Cor |
| MV648 | Dust - 100cm2 area | Sunrise building Electrical Room Box from Conduit B | <993 | - | 4/27/2022 | Lab/Cor |
| MV649 | Dust - 100cm2 area | Sunrise building Electrical Room Box from Conduit C | <993 | - | 4/27/2022 | Lab/Cor |
| MV650 | Dust - 100cm2 area | Sunrise building Electrical Room Box from Conduit D | <993 | - | 4/27/2022 | Lab/Cor |
| MV651 | Dust - 100cm2 area | Sunrise building Electrical Room Floor behind transformer | <993 | - | 4/27/2022 | Lab/Cor |
| MV652 | | Field Blank | NA | - | 4/28/2022 | Lab/Cor |
| MV653 | Dust - 100cm2 area | Olympic S emergency power large junction box NE | 6,552 | 6 Chrysotile | 4/28/2022 | Lab/Cor |
| MV654 | Dust - 100cm2 area | Olympic N emergency power large junction box NE | 5,460 | 3 Chrysotile 2 Tremolite | 4/28/2022 | Lab/Cor |

July 2022 9 of 10

<910

<910

NA

74,620

14,891

4/28/2022

4/28/2022

5/9/2022

5/9/2022

5/9/2022

82 Chrysotile

12 Chrysotile

3 Tremolite

Lab/Cor

Lab/Cor

Lab/Cor

Lab/Cor

Lab/Cor

Olympic N emergency power large junction box mechanical room

Olympic N emergency power elbow at wall penetration mech. room

Olympic S Long soffit adjacent to stairwell underneath skybridge to CAS

Olympic S Beneath the pan decking in skybridge cavity to CAS

MV655

MV656

MV657

MV658

MV659

Dust - 100cm2 area

Dust - 100cm2 area

Dust - 100cm2 area

Dust - 100cm2 area

Field Blank

| Pierce Co | ollege Olympic Sout | h Abatement and Repairs | e Services MV PBS Project # 40535.48 <u>Lab Result Analyte Lab report Lab</u> (struc/cm2) Date | eering + Environmental | | |
|------------------------|---------------------|---------------------------------|--|------------------------|----------------|------------------------|
| Washing | ton Department of I | Enterprise Services | MV | | P | BS Project # 40535.488 |
| <u>PBS</u> Sample # | <u>Material</u> | Sample Location | | | <u>Analyte</u> | <u> </u> |
| MV660 | Dust - 100cm2 area | Skybridge to CAS Red I beam und | ler floor plate on CAS side | 910 | 1 Actinolite | 5/10/2022 Lab/Cor |

July 2022 10 of 10



ASTM D 5755-09 - Microvac Final Report

Job Number: 210691 Report Number: 210691R01 Report Date: 7/27/2021

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample # Client Sample # and Description Analysis **Analysis Notes**

MV505 -210691 - S1 ASTM D 5755-09 - Microvac Date Received: 7/27/2021

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Sierra Hinkle

Technician/Analyst



ASTM D 5755-09 - Microvac Final Report

Job Number: 210691 SEA Report Number: 210691R01
Client: PBS Engineering + Environmental Date Received: 7/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV505

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.025 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.025 Area Analyzed (mm2): 0.11

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 1052.291

Volume Taken: 0.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH7/27/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 3156.873 | 651.368 - 9225.434 - Poisson | 3 |
| ASTM Asbestos >=5.0μm | < 1052.291 | 0 - 3881.901 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 1052.291 | 0 - 3881.901 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 3156.873 | 651.368 - 9225.434 - Poisson | 3 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Sierra Hinkle

Technician/Analyst



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210691 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210691R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 7/27/2021

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: MV505
Description:

| | ט | escripti | ion: | | | | | | | | | |
|-------|---------|----------|-----------|------------|-------|-----------|--------|------------|-----------------|-----------|-----------------|-----------------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G10 | 1 | C42 | | | NSD | | | | | | | |
| G10 | 2 | E41 | | | NSD | | | | | | | |
| G10 | 3 | E44 | | | NSD | | | | | | | |
| G10 | 4 | F43 | | | NSD | | | | | | | |
| G10 | 5 | F44 | | | NSD | | | | | | | |
| G10 | 6 | G44 | CDQ | 1 | Fiber | 1.56 | 0.1 | 15.6 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Item | Туре | ItemNu | ım | | Confirmed | d Comment | |
| | | | | | Diffi | raction | F6552 | 1DF | | SH 7/27/2 | 2021 0.53nm ROV | OW SPACING |
| | | | | | Spe | ctra | F6552 | 1SP | | SH 7/27/2 | 2021 | |
| | | | | | Brig | htfield | F6552 | 1BF | | | | |
| G11 | 7 | F32 | | | NSD | | | | | | | |
| G11 | 8 | C34 | CQ | 2 | Fiber | 1.5 | 0.09 | 16.7 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 9 | E51 | CQ | 3 | Fiber | 1.3 | 0.11 | 11.8 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 10 | E52 | | | NSD | | | | | | | |
| Count | Catego | ries | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM | Asbestos | s >=5.0μm | AST | M_0.5-5.0 | ASTM A | sbestos >= | :0.5μm - <5.0μn | n ASTM_To | tal ASTM Total | al Asbestos >=0.5μm |
| ASTM | D_Other | ASTM | Libby-Otl | her >0.5μm | | | | | | | | |

Reviewed by:

Sierra Hinkle Technician/Analyst

210411



LABORATORY CHAIN OF CUSTODY

| Project: | Pierce College Olymp | oic South Abatement and Repairs | Project #: 40535.488 |
|--|----------------------------------|---|----------------------------|
| Analysis red | quested: ASTM m | icrovac dust sample | Date: 7/26/2021 |
| Reling'd by | /Signature: | cet sui | Date/Time: 7/27/2021 |
| Received by | y/Signature: | By | Date/Time: 7/27/21 11:15am |
| | | Email ALL INVOICES to: seattleap@pbsu | isa.com |
| E-mail result Brian Sta Willem M Gregg M Mark Hil Tim Ogd | nford Aager Iiddaugh ey | ☐ Prudy Stoudt-McRae ☐ Janet Murphy ☐ Kaitlin Soukup ☐ Claire Tsai ☐ Holly Tuttle | |
| TURN AROU 1 Hour 2 Hours 4 Hours | IND TIME: | 24 Hours 48 Hours | ☐ 3 Days ☐ Other |
| _ 4 Hours | LOD <1000 | | |
| | | SAMPLE DATA FORM | |
| Sample # | Material | Location | Lab |
| MV505 | Dust - 100cm2 area | Olympic South elevator shaft from doors | Labcor |
| | | | |
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| | | | |
| | | Reviewed by: | |
| | | Results Released: | |
| | | Fax Verbals USPS | Email |
| | | Fax USPS Email | |
| | | | |
| | | | |



ASTM D 5755-09 - Microvac Final Report

Job Number: 210748 Report Number: 210748R02 Report Date: 8/12/2021

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number:

Note duplicate sample **Sub Project:** Reference No.: number CT edit to MV506A

Report Note: R02 is a revision from R01 to include the extended analysis.

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample # Client Sample # and Description Analysis

210748 - S1 MV506 -ASTM D 5755-09 - Microvac Some Mg-Al-Si fibers present Date Received: 8/10/2021

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Sierra Hinkle Technician/Analyst



ASTM D 5755-09 - Microvac Final Report

Job Number: 210748 SEA Report Number: 210748R02
Client: PBS Engineering + Environmental Date Received: 8/10/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV506

Lab Filter Area (mm2): 289.38

Description:Grid Openings Analyzed: 53Filter Fraction: 1Aliquot Dilution: 0.005Average Grid Opening Area: 0.011Residual Ash Vol: 20 mlFinal Dilution: 0.005Area Analyzed (mm2): 0.583Begin Volume: 20 mlAnalytical Sens. (struc/cm2): 992.727

Volume Taken: 0.1 ml

Analyst(s) Analysis Date Microscope Magnification SH 8/12/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 992.727 | 0 - 3662.171 - Poisson | 0 | |
| ASTM Asbestos >=5.0μm | < 992.727 | 0 - 3662.171 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 992.727 | 0 - 3662.171 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5μm | < 992.727 | 0 - 3662.171 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Sierra Hinkle

Technician/Analyst

Note duplicate sample number CT edit to MV506A



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210748 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210748R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 8/10/2021

Project No.: 40535.488

Lab/Cor Sample No: S1 **Client Sample No:** MV506

Note duplicate sample number CT edit to MV506A

| Minima | | | Descriptio | n: | | number of edit to wv500A | | | | | | | | |
|--|-----|-----|------------|----|------|--------------------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G10 2 E44 NSD G10 3 F43 NSD G10 4 F44 NSD G10 5 G43 NSD G11 6 C42 NSD G11 7 E41 NSD G11 8 E42 NSD G11 9 F41 NSD G10 11 C31 NSD G10 12 C32 NSD G10 12 C31 NSD G10 12 C32 NSD G10 13 E31 NSD G10 14 E82 NSD G10 15 F31 NSD G10 16 F32 NSD G10 17 G31 NSD G10 18 G32 NSD G10 21 C33 NSD G10 22 C34 NSD | Gr | No. | Loc. | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G10 3 F43 NSD G10 4 F44 NSD G11 6 G43 NSD G11 7 E41 NSD G11 8 E42 NSD G11 9 F41 NSD G11 10 F42 NSD G10 11 C42 NSD G10 12 C32 NSD G10 12 C32 NSD G10 12 C32 NSD G10 14 E32 NSD G10 15 F31 NSD G10 15 F31 NSD G10 15 F32 NSD G10 17 G31 NSD G10 18 G32 NSD G10 19 H31 NSD G10 22 C34 NSD G10 23 E33 NSD | G10 | 1 | E43 | | | | NSD | | | | | | | |
| G10 4 F44 NSD G10 5 G43 NSD G11 6 C42 NSD G11 7 E41 NSD G11 8 E42 NSD G11 9 F41 NSD G11 10 F42 NSD G10 11 C31 NSD G10 12 C32 NSD G10 13 E31 NSD G10 14 E32 NSD G10 15 F31 NSD G10 15 F31 NSD G10 16 F32 NSD G10 17 G31 NSD G10 18 G32 NSD G10 19 H31 NSD G10 21 C33 NSD G10 22 E34 NSD G10 23 E34 NSD | G10 | 2 | E44 | | | | NSD | | | | | | | |
| G10 5 G43 NSD G11 6 C42 NSD G11 7 E41 NSD G11 8 E42 NSD G11 9 F41 NSD G11 10 F42 NSD G10 11 C31 NSD G10 13 E31 NSD G10 13 E31 NSD G10 14 E32 NSD G10 15 F31 NSD G10 15 F31 NSD G10 15 F31 NSD G10 16 F32 NSD G10 18 G32 NSD G10 19 H31 NSD G10 21 G33 NSD G10 22 C34 NSD G10 23 E33 NSD G10 25 F33 NSD | G10 | 3 | F43 | | | | NSD | | | | | | | |
| G11 6 C42 NSD G11 7 E41 NSD G11 8 E42 NSD G11 10 F41 NSD G11 11 C31 NSD G10 11 C31 NSD G10 12 C32 NSD G10 13 E31 NSD G10 14 E32 NSD G10 15 F31 NSD G10 16 F32 NSD G10 15 F31 NSD G10 16 F32 NSD G10 17 G31 NSD G10 18 G32 NSD G10 21 C33 NSD G10 22 C34 NSD G10 22 C34 NSD G10 25 F33 NSD G10 27 G33 NSD <tr< td=""><td>G10</td><td>4</td><td>F44</td><td></td><td></td><td></td><td>NSD</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<> | G10 | 4 | F44 | | | | NSD | | | | | | | |
| G11 7 E41 NSD G11 8 E42 NSD G11 10 F41 NSD G11 10 F42 NSD G10 11 C31 NSD G10 12 C32 NSD G10 13 E31 NSD G10 14 E32 NSD G10 15 F31 NSD G10 16 F32 NSD G10 17 G31 NSD G10 18 G32 NSD G10 19 H31 NSD G10 19 H31 NSD G10 21 C33 NSD G10 22 C34 NSD G10 23 F33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 25 F33 NSD <t< td=""><td>G10</td><td>5</td><td>G43</td><td></td><td></td><td></td><td>NSD</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | G10 | 5 | G43 | | | | NSD | | | | | | | |
| G11 8 E42 NSD G11 9 F41 NSD G11 10 F42 NSD G10 11 G31 NSD G10 12 C32 NSD G10 13 E31 NSD G10 15 F31 NSD G10 16 F32 NSD G10 17 G31 NSD G10 17 G31 NSD G10 18 G32 NSD G10 18 G32 NSD G10 18 H31 NSD G10 21 C33 NSD G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 27 G33 NSD G10 27 G33 NSD <t< td=""><td>G11</td><td>6</td><td>C42</td><td></td><td></td><td></td><td>NSD</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | G11 | 6 | C42 | | | | NSD | | | | | | | |
| G11 9 F41 NSD G11 10 F42 NSD G10 11 C31 NSD G10 12 C32 NSD G10 14 E32 NSD G10 15 F31 NSD G10 15 F31 NSD G10 17 G31 NSD G10 18 G32 NSD G10 18 G32 NSD G10 19 H31 NSD G10 19 H31 NSD G10 21 G33 NSD G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 H33 NSD < | G11 | 7 | E41 | | | | NSD | | | | | | | |
| G11 10 F42 NSD G10 11 C31 NSD G10 12 C32 NSD G10 13 E31 NSD G10 14 E32 NSD G10 15 F31 NSD G10 16 F32 NSD G10 17 G31 NSD G10 18 G32 NSD G10 19 H31 NSD G10 19 H31 NSD G10 20 H32 NSD G10 21 C33 NSD G10 22 G34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 31 C41 NSD | G11 | 8 | E42 | | | | NSD | | | | | | | |
| G10 11 C31 NSD G10 12 C32 NSD G10 13 E31 NSD G10 14 E32 NSD G10 15 F31 NSD G10 16 F32 NSD G10 17 G31 NSD G10 18 G32 NSD G10 19 H31 NSD G10 19 H31 NSD G10 20 H32 NSD G10 21 C33 NSD G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 30 H34 NSD | G11 | 9 | F41 | | | | NSD | | | | | | | |
| G10 12 C32 NSD G10 13 E31 NSD G10 14 E32 NSD G10 15 F31 NSD G10 16 F32 NSD G10 17 G31 NSD G10 18 G32 NSD G10 19 H31 NSD G10 21 C33 NSD G10 22 C34 NSD G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD | G11 | 10 | F42 | | | | NSD | | | | | | | |
| G10 13 E31 NSD G10 14 E32 NSD G10 15 F31 NSD G10 16 F32 NSD G10 17 G31 NSD G10 18 G32 NSD G10 19 H31 NSD G10 20 H32 NSD G10 21 C33 NSD G10 22 C34 NSD G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 31 C41 NSD G10 32 C42 NSD | G10 | 11 | C31 | | | | NSD | | | | | | | |
| G10 14 E32 NSD G10 15 F31 NSD G10 16 F32 NSD G10 17 G31 NSD G10 18 G32 NSD G10 19 H31 NSD G10 20 H32 NSD G10 21 C33 NSD G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 34 F41 NSD | G10 | 12 | C32 | | | | NSD | | | | | | | |
| G10 15 F31 NSD G10 16 F32 NSD G10 17 G31 NSD G10 18 G32 NSD G10 19 H31 NSD G10 20 H32 NSD G10 21 C33 NSD G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 25 F33 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 29 H33 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD | G10 | 13 | E31 | | | | NSD | | | | | | | |
| G10 16 F32 NSD G10 17 G31 NSD G10 18 G32 NSD G10 19 H31 NSD G10 20 H32 NSD G10 21 C33 NSD G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 36 G41 NSD | G10 | 14 | E32 | | | | NSD | | | | | | | |
| G10 17 G31 NSD G10 18 G32 NSD G10 19 H31 NSD G10 20 H32 NSD G10 21 C33 NSD G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD | G10 | 15 | F31 | | | | NSD | | | | | | | |
| G10 18 G32 NSD G10 19 H31 NSD G10 20 H32 NSD G10 21 C33 NSD G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD | G10 | 16 | F32 | | | | NSD | | | | | | | |
| G10 19 H31 NSD G10 20 H32 NSD G10 21 C33 NSD G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD | G10 | 17 | G31 | | | | NSD | | | | | | | |
| G10 20 H32 NSD G10 21 C33 NSD G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD <td>G10</td> <td>18</td> <td>G32</td> <td></td> <td></td> <td></td> <td>NSD</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | G10 | 18 | G32 | | | | NSD | | | | | | | |
| G10 21 C33 NSD G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 19 | H31 | | | | NSD | | | | | | | |
| G10 22 C34 NSD G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 20 | H32 | | | | NSD | | | | | | | |
| G10 23 E33 NSD G10 24 E34 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 21 | C33 | | | | NSD | | | | | | | |
| G10 24 E34 NSD G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 22 | C34 | | | | NSD | | | | | | | |
| G10 25 F33 NSD G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 23 | E33 | | | | NSD | | | | | | | |
| G10 26 F34 NSD G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 24 | E34 | | | | NSD | | | | | | | |
| G10 27 G33 NSD G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 25 | F33 | | | | NSD | | | | | | | |
| G10 28 G34 NSD G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 26 | F34 | | | | NSD | | | | | | | |
| G10 29 H33 NSD G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 27 | G33 | | | | NSD | | | | | | | |
| G10 30 H34 NSD G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 28 | G34 | | | | NSD | | | | | | | |
| G10 31 C41 NSD G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 29 | H33 | | | | NSD | | | | | | | |
| G10 32 C42 NSD G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 30 | H34 | | | | NSD | | | | | | | |
| G10 33 E41 NSD G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 31 | C41 | | | | NSD | | | | | | | |
| G10 34 F41 NSD G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 32 | C42 | | | | NSD | | | | | | | |
| G10 35 F42 NSD G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 33 | E41 | | | | NSD | | | | | | | |
| G10 36 G41 NSD G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 34 | F41 | | | | NSD | | | | | | | |
| G10 37 G42 NSD G10 38 H41 NSD G10 39 H42 NSD | G10 | 35 | F42 | | | | NSD | | | | | | | |
| G10 38 H41 NSD G10 39 H42 NSD | G10 | 36 | G41 | | | | NSD | | | | | | | |
| G10 39 H42 NSD | G10 | 37 | G42 | | | | NSD | | | | | | | |
| | G10 | 38 | H41 | | | | NSD | | | | | | | |
| G11 40 E31 NSD | G10 | 39 | H42 | | | | NSD | | | | | | | |
| | G11 | 40 | E31 | | | | NSD | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210748 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210748R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 8/10/2021

Lab/Cor Sample No: S1 Client Sample No: MV506 Description: Note duplicate sample number CT edit to MV506A

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comr | ment | Count Categories |
|-------|---------|-----------|-----------------|-------|------------|--------|------------|---------------|----------|---------|--------------|------------------|
| G11 | 41 | E32 | | NSD | | | | | | | | |
| G11 | 42 | F31 | | NSD | | | | | | | | |
| G11 | 43 | F32 | | NSD | | | | | | | | |
| G11 | 44 | G31 | | NSD | | | | | | | | |
| G11 | 45 | G32 | | NSD | | | | | | | | |
| G11 | 46 | H31 | | NSD | | | | | | | | |
| G11 | 47 | H32 | | NSD | | | | | | | | |
| G11 | 48 | C33 | | NSD | | | | | | | | |
| G11 | 49 | C34 | | NSD | | | | | | | | |
| G11 | 50 | E33 | | NSD | | | | | | | | |
| G11 | 51 | E34 | | NSD | | | | | | | | |
| G11 | 52 | F33 | | NSD | | | | | | | | |
| G11 | 53 | F34 | | NSD | | | | | | | | |
| Count | Categor | ies | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM Asb | estos >=5.0µm | AS | TM_0.5-5.0 | ASTM A | sbestos >= | 0.5µm - <5.0µ | ım ASTM | 1_Total | ASTM Total A | Asbestos >=0.5μm |
| ASTM | D_Other | ASTM Libb | oy-Other >0.5μm | | | | | | | | | |

Reviewed by:

Sierra Hinkle Technician/Analyst



LABORATORY CHAIN OF CUSTODY

210748 1

| Project: | Pierce College Olym | pic South Abatement and Repairs | Project #: <u>40535.488</u> | · · · · · · |
|--|-------------------------------------|---|--|--------------|
| Analysis re | quested: <u>ASTM n</u> | nicrovac dust sample | Date: 8/9/2021 | |
| Relinq'd by | y/Signature: | laucisa | Date/Time: 8/10/2021 | 7am |
| Received b | y/Signature: | h went | Date/Time: 8/16/21 | 0830 |
| | - | Email ALL INVOICES to: seattleap@pbs | | |
| E-mail resul Brian Sta Willem I Gregg N Mark Hi Tim Ogo | anford Mager ⁄liddaugh ley | ☐ Prudy Stoudt-McRae ☐ Janet Murphy ☐ Kaitlin Soukup ☐ Claire Tsai ☐ Holly Tuttle | ☐ Mike Smith ☐ Ferman Fletcher ☐ Ryan Hunter ☐ Michelle Dodson | |
| TURN AROL 1 Hour 2 Hours | , | 24 Hours 48 Hours | 3 Days Other | |
| 4 Hours | LOD <1000 | | | |
| | | SAMPLE DATA FORM | | |
| Sample # | Material | Location | Al Augustin | Lab |
| MV506 | Dust - 100cm2 area | Olympic North Room 104 Laser cutter exha | aughtuba | |
| | Dust 10001112 area | Olympic North Room 104 Laser cutter exhi | aust tube | Labcor |
| | cate sample nur | | aust tube | Labcor |
| | | | aust tube | Labcor |
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ASTM D 5755-09 - Microvac Final Report

Job Number: 210836 Report Number: 210836R01 **Report Date: 9/7/2021**

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Sample # | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|------------------|----------------------|---------------------------|----------------|----------------|
| 210836 - S1 | MV506 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S2 | MV507 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S3 | MV508 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S4 | MV509 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S5 | MV510 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S6 | MV511 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S7 | MV512 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S8 | MV513 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S9 | MV514 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S10 | MV515 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S11 | MV516 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S12 | MV517 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S13 | MV518 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S14 | MV519 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S15 | MV520 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |
| 210836 - S16 | MV521 - | ASTM D 5755-09 - Microvac | | 8/30/2021 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15.000 - 20.000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Kate March Quality Control Officer



ASTM D 5755-09 - Microvac Final Report

Job Number: 210836 SEA Report Number: 210836R01
Client: PBS Engineering + Environmental Date Received: 8/30/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV506

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification SB 9/7/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | 4384.5455 | 1424.1004 - 10232.6522 - Poisson | 5 |
| ASTM Asbestos >=5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 4384.5455 | 1424.1004 - 10232.6522 - Poisson | 5 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV507

Description:

Filter Fraction: 1

Aliquot Dilution: 0.075

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification
SB 9/7/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Total Asbestos >=0.5µm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210836 SEA Report Number: 210836R01

Client: PBS Engineering + Environmental Date Received: 8/30/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV508

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSB9/7/2021JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 2630.7273 | 542.8067 - 7687.862 - Poisson | 3 |
| ASTM Asbestos >=5.0μm | 876.9091 | 21.9227 - 4886.1375 - Poisson | 1 |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 3507.6364 | 955.8309 - 8981.3029 - Poisson | 4 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV509

Description:

Filter Fraction: 1

Aliquot Dilution: 0.075

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSB9/7/2021JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210836 SEA Report Number: 210836R01

Client: PBS Engineering + Environmental Date Received: 8/30/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S5 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV510

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSB9/7/2021JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 876.9091 | 21.9227 - 4886.1375 - Poisson | 1 |
| ASTM Asbestos >=5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 876.9091 | 21.9227 - 4886.1375 - Poisson | 1 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S6Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV511

Description:

Filter Fraction: 1

Aliquot Dilution: 0.0125

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.0125 Area Analyzed (mm2): 0.11

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 2104.5818

Volume Taken: 0.25 ml

Analyst(s) Analysis Date Microscope Magnification
KM 9/3/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 65242.0364 | 44328.8068 - 92605.8092 - Poisson | 31 |
| ASTM Asbestos >=5.0μm | < 2104.5818 | 0 - 7763.8023 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 2104.5818 | 0 - 7763.8023 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 65242.0364 | 44328.8068 - 92605.8092 - Poisson | 31 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210836 SEA Report Number: 210836R01
Client: PBS Engineering + Environmental Date Received: 8/30/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S7 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV512

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSB9/7/2021JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S8 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV513

Description:

Filter Fraction: 1

Aliquot Dilution: 0.0125

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.0125 Area Analyzed (mm2): 0.11

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 2104.5818

Volume Taken: 0.25 ml

Analyst(s) Analysis Date Microscope Magnification
KM 9/3/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 25254.9818 | 13050.5119 - 44116.2441 - Poisson | 12 |
| ASTM Asbestos >=5.0μm | < 2104.5818 | 0 - 7763.8023 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 2104.5818 | 0 - 7763.8023 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 25254.9818 | 13050.5119 - 44116.2441 - Poisson | 12 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210836 SEA Report Number: 210836R01
Client: PBS Engineering + Environmental Date Received: 8/30/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S9 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV514

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSB9/7/2021JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S10 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV515

Description:

Filter Fraction: 1

Aliquot Dilution: 0.025

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 11

Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.025 Area Analyzed (mm2): 0.121

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 956.6281

Volume Taken: 0.5 ml

Analyst(s) Analysis Date Microscope Magnification
SB 9/7/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | 31568.7273 | 21729.8073 - 44334.9293 - Poisson | 33 |
| ASTM Asbestos >=5.0μm | 3826.5124 | 1042.7246 - 9797.785 - Poisson | 4 |
| ASTM Libby-Other >0.5μm | < 956.6281 | 0 - 3529.0011 - Poisson | 0 |
| ASTM Total Asbestos >=0.5µm | 35395.2397 | 24920.162 - 48788.0331 - Poisson | 37 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210836 SEA Report Number: 210836R01

Client: PBS Engineering + Environmental Date Received: 8/30/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S11 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV516

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationKM9/7/2021JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | | |
|--------------------------------|-----------------------------------|---|---|--|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 7892.1818 | 3608.4809 - 14981.9918 - Poisson | 9 | | |
| ASTM Asbestos >=5.0μm | 2630.7273 | 542.8067 - 7687.862 - Poisson | 3 | | |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 | | |
| ASTM Total Asbestos >=0.5μm | 10522.9091 | 5437.7133 - 18381.7684 - Poisson | 12 | | |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S12 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV517

Description:

Crid Openings Analyzed: 4

Control of the control of the

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification
KM 9/7/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210836 SEA Report Number: 210836R01
Client: PBS Engineering + Environmental Date Received: 8/30/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S13 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV518

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/7/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 1753.8182 | 212.212 - 6335.6682 - Poisson | 2 |
| ASTM Asbestos >=5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 1753.8182 | 212.212 - 6335.6682 - Poisson | 2 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S14 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV519

Description:

Crid Openings Analyzed: 4

Control of the control of the

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification
SH 9/7/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210836 SEA Report Number: 210836R01

Client: PBS Engineering + Environmental Date Received: 8/30/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S15 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV520

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification SH 9/7/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S16

Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV521

Lab Filter Area (mm²): 289.38

Description: Grid Openings Analyzed: 10
Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.11

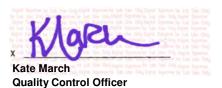
Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification

20000 SH 9/7/2021 Hitachi 7000FA Structure Concen-95% Confidence Structure tration Interval Count¹ Type (struc/cm2) (struc/cm2) Prim/Total ASTM Asbestos >=0.5µm - <5.0µm NA Not Applicable ASTM Asbestos >=5.0µm NA Not Applicable 0 ASTM Libby-Other >0.5µm NA Not Applicable 0 ASTM Total Asbestos >=0.5µm NA Not Applicable 0

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210836 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210836R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 8/30/2021

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV506 Description:

| | | • | | | | | | | | | | |
|----|-----|------|-----|----------|------------|---------|--------|--------|------------|----------|------------|-----------------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G5 | 1 | E44 | CDQ | 1 | Fiber | 1.44 | 0.2 | 7.2 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Item | Туре | ItemNu | ım | | Confirn | ned Co | mment |
| | | | | | Brig | htfield | J6588 | 8BF | | | | |
| | | | | | Diffr | action | J6588 | 8DF | | SB 9/7 | 7/2021 0.5 | 3nm ROW SPACING |
| | | | | | Spe | ctra | J6588 | 8SP | | SB 9/7 | 7/2021 | |
| G5 | 2 | F43 | | | NSD | | | | | | | |
| G6 | 3 | G44 | CD | 2 | Fiber | 0.75 | 0.1 | 7.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 3 | G44 | СМ | 3 | Fiber | 0.51 | 0.1 | 5.1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 4 | H43 | CD | 4 | Matrix 1-0 | 2.9 | 2.2 | 1.3 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 4 | H43 | CM | 5 | Fiber | 0.9 | 0.1 | 9 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |

Lab/Cor Sample No: S2 Client Sample No: MV507 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Asp | ect Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-----------|-------------|----------|---------|------------------|
| G3 | 1 | H42 | | NSD | | | | | | |
| G3 | 2 | H34 | | NSD | | | | | | |
| G4 | 3 | F42 | | NSD | | | | | | |
| G4 | 4 | G41 | | NSD | | | | | | |

Lab/Cor Sample No: S3 Client Sample No: MV508 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-----|----------|-------|------------------------------|-------------------------|--------|------------|----------|---------------------|-----------------------------|
| G3 | 1 | F52 | CDQ | 1 | Fiber | 1.3 | 0.1 | 13 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Iten | пТуре | ItemN | ım | | Confirm | ed Com | ment |
| | | | | | Diff | ghtfield raction ectra | J6588 J6588 J6588 | 9DF | | | /2021 0.53 /2021 | nm ROW SPACING |
| G3 | 1 | F52 | CD | 2 | Fiber | 11 | 0.25 | 44 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G3 | 1 | F52 | CM | 3 | Fiber | 0.75 | 0.1 | 7.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G3 | 2 | G51 | | | NSD | | | | | | | |
| G4 | 3 | F42 | CD | 4 | Fiber | 0.51 | 0.1 | 5.1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 4 | G41 | | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210836 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210836R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 8/30/2021

Lab/Cor Sample No: S4 Client Sample No: MV509 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | NSD | | | | | | | |
| G1 | 2 | F43 | | NSD | | | | | | | |
| G2 | 3 | F34 | | NSD | | | | | | | |
| G2 | 4 | G33 | | NSD | | | | | | | |

Lab/Cor Sample No: S5 Client Sample No: MV510 Description:

| | | . о о о р с | • | | | | | | | | | | |
|----|-----|-------------|---|----------|-------|----------|--------|--------|------------|---------|----------|--------|-----------------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Element | s Com | ment | Count Categories |
| G1 | 1 | G42 | | | NSD | | | | | | | | |
| G1 | 2 | H41 | CDQ | 1 | Fiber | 2.5 | 0.1 | 25 | Chrysotile | Mg, S | Si | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Iten | пТуре | ItemNı | ım | | Coi | nfirmed | Commer | nt |
| | | | | | Brig | ghtfield | J6589 | 0BF | | | | | |
| | | | | | Diff | fraction | J6589 | 0DF | | SB | 9/7/2021 | 0.53nm | ROW SPACING |
| | | | | | Spe | ectra | J6589 | 0SP | | SB | 9/7/2021 | | |
| G2 | 3 | G54 | | | NSD | | | | | | | | |
| G2 | 4 | H53 | | | NSD | | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

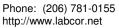
Job Number: 210836 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210836R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 8/30/2021

Lab/Cor Sample No: S6
Client Sample No: MV511
Description:

| | | Descript | ion: | | | | | | | | | | |
|------------|-----|----------|------|---------|-----------------------------|--------|----------------------------|--------|------------|-----------------------|-----|--------|-----------------------------|
| Gr | No. | Loc. | ID | Prim To | t Class | Length | Width | Aspect | Analyte | Elements | Com | ment | Count Categories |
| G3 | 1 | C32 | CDQ | 1 | Fiber | 1.9 | 0.07 | 27.1 | Chrysotile | Mg, Si | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | ItemTy | | ItemNu | | | Confirm | | Commer | nt |
| | | | | | Specti Diffrac Bright | ction | J65878 J65878 J65878 | 8DF | | KM 9/3 KM 9/3 | | 0.53nm | ROW SPACING |
| G3 | 1 | C32 | CD | 2 | Bundle | 1.85 | 0.17 | 10.9 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G 3 | 1 | C32 | CD | 3 | Fiber | 1.1 | 0.04 | 27.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| 3 3 | 2 | E31 | CM | 4 | Fiber | 2 | 0.05 | 40 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| 3 3 | 2 | E31 | СМ | 5 | Fiber | 1.75 | 0.08 | 21.9 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| 3 3 | 2 | E31 | СМ | 6 | Fiber | 2.3 | 0.04 | 57.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G3 | 3 | F33 | CM | 7 | Fiber | 4.6 | 0.08 | 57.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G3 | 3 | F33 | ADQ | 8 | Bundle | 4.2 | 0.6 | 7 | Actinolite | Mg, Al, Si, Ca, Fe | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | ItemTy | уре | ltemΝι | ım | | Confirm | ned | Commer | nt |
| | | | | | Specti Diffrac Bright | ction | J65879 J65879 J65879 | 9DF | | KM 9/3 KM 9/3 | | 0.53nm | ROW SPACING |
| G 3 | 3 | F33 | CD | 9 | Bundle | 2.1 | 0.13 | 16.2 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G 3 | 3 | F33 | СМ | 10 | Fiber | 3.1 | 0.07 | 44.3 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G 3 | 3 | F33 | СМ | 11 | Fiber | 3.5 | 0.06 | 58.3 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G 3 | 4 | E42 | СМ | 12 | Fiber | 8.0 | 0.05 | 16 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G 3 | 4 | E42 | СМ | 13 | Matrix 1-0 | 3.4 | 0.85 | 4 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| 3 3 | 5 | F41 | CM | 14 | Fiber | 1.4 | 0.06 | 23.3 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| 3 3 | 5 | F41 | СМ | 15 | Bundle | 2.1 | 0.15 | 14 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 6 | E32 | CD | 16 | Fiber | 0.7 | 0.05 | 14 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 6 | E32 | СМ | 17 | Fiber | 0.8 | 0.05 | 16 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 7 | F31 | CD | 18 | Fiber | 0.7 | 0.05 | 14 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 7 | F31 | СМ | 19 | Matrix 5-0 | 4.8 | 2.6 | 1.8 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 7 | F31 | AQ | 20 | Fiber | 3.2 | 0.32 | | Actinolite | | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 7 | F31 | CM | 21 | Fiber | 0.8 | 0.06 | 13.3 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 7 | F31 | CM | 22 | Fiber | 1.3 | 0.07 | 18.6 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 7 | F31 | CD | 23 | Fiber | 0.65 | 0.08 | 8.1 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 7 | F31 | CD | 24 | Fiber | 0.5 | 0.03 | 16.7 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210836 SEA Ref. D5755-09

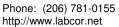
Client: PBS Engineering + EnvironmentalReport Number: 210836R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 8/30/2021

Lab/Cor Sample No: S6 Client Sample No: MV511 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|------------|--------|-------|--------|------------|----------|---------|-----------------------------|
| G4 | 8 | G41 | CD | 25 | Bundle | 2.85 | 0.11 | 25.9 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 8 | G41 | CM | 26 | Matrix 1-0 | 3.1 | 1.5 | 2.1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 8 | G41 | СМ | 27 | Bundle | 1.85 | 0.25 | 7.4 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 9 | G42 | СМ | 28 | Fiber | 0.95 | 0.08 | 11.9 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 9 | G42 | CM | 29 | Matrix 1-0 | 1.6 | 8.0 | 2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 10 | H43 | CD | 30 | Matrix 1-0 | 1.5 | 0.9 | 1.7 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 10 | H43 | СМ | 31 | Fiber | 1.7 | 0.05 | 34 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |

Lab/Cor Sample No: S7 Client Sample No: MV512 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Asp | ect Analy | te Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-----------|-----------|-------------|---------|------------------|
| G1 | 1 | F42 | | NSD | | | | | | |
| G1 | 2 | G41 | | NSD | | | | | | |
| G2 | 3 | F42 | | NSD | | | | | | |
| G2 | 4 | G41 | | NSD | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210836 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210836R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 8/30/2021

Lab/Cor Sample No: S8 Client Sample No: MV513 Description:

| Gr | No. | Loc. | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Elements | Comr | ment | Count Categories |
|----|-----|------|-----|------|-----|------------|---------|--------|--------|------------|----------|---------|-----------|-----------------------------|
| G3 | 1 | E34 | CDQ | 1 | | Fiber | 1.8 | 0.05 | 36 | Chrysotile | Mg, Si | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | | Item | Туре | ItemNı | ım | | Confir | med | Comment | |
| | | | | | | Spe | ctra | J6588 | 1SP | | KM 9 | /3/2021 | | |
| | | | | | | Diffr | action | J6588 | 1DF | | KM 9 | /3/2021 | 0.53nm R0 | OW SPACING |
| | | | | | | Brig | htfield | J6588 | 1BF | | | | | |
| G3 | 2 | F33 | CD | 2 | | Fiber | 3.3 | 0.03 | 110 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G3 | 2 | F33 | СМ | 3 | | Matrix 1-0 | 2.1 | 1.7 | 1.2 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G3 | 3 | F42 | CD | 4 | | Matrix 1-0 | 2.2 | 1.3 | 1.7 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G3 | 3 | F42 | СМ | 5 | | Fiber | 2.3 | 0.06 | 38.3 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G3 | 4 | G41 | CD | 6 | | Fiber | 3.1 | 0.1 | 31 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G3 | 4 | G41 | СМ | 7 | | Fiber | 1.1 | 0.07 | 15.7 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G3 | 5 | G44 | | | | NSD | | | | | | | | |
| G4 | 6 | E32 | CD | 8 | | Bundle | 1.8 | 0.3 | 6 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 6 | E32 | CD | 9 | | Fiber | 4.1 | 0.1 | 41 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 7 | F32 | | | | NSD | | | | | | | | |
| G4 | 8 | G31 | CD | 10 | | Fiber | 1.7 | 0.06 | 28.3 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 9 | H33 | | | | NSD | | | | | | | | |
| G4 | 10 | F41 | CD | 11 | | Fiber | 1.7 | 0.04 | 42.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G4 | 10 | F41 | СМ | 12 | | Bundle | 1.6 | 0.15 | 10.7 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |

Lab/Cor Sample No: S9 Client Sample No: MV514 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F42 | | NSD | | | | | | | |
| G1 | 2 | G41 | | NSD | | | | | | | |
| G2 | 3 | G44 | | NSD | | | | | | | |
| G2 | 4 | H43 | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210836 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210836R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 8/30/2021

Lab/Cor Sample No: S10 Client Sample No: MV515 Description:

| | | Descript | 1011. | | | | | | | | | |
|----|-----|----------|-------|------|------------|------------------------------|-------------------------|--------|------------|--|-----------|---|
| Gr | No. | Loc. | ID | Prim | Tot Class | Length | Width | Aspect | Analyte | Elements Com | ment | Count Categories |
| G5 | 1 | C42 | CM | 1 | Bundle | 1 | 0.2 | 5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 1 | C42 | CD | 2 | Fiber | 2 | 0.1 | 20 | Chrysotile | | | ASTM_Total ASTM_0.5-5.0, ASTM_Total |
| G5 | 1 | C42 | СМ | 3 | Fiber | 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 1 | C42 | CMQ | 4 | Matrix | 3.5 | 1 | 3.5 | Chrysotile | Mg, Si - Ca Interferenc e From Backgroun d | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 1 | C42 | CM | 5 | Fiber | 1.1 | 0.1 | 11 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 1 | C42 | СМ | 6 | Fiber | 1.6 | 0.1 | 16 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 2 | E41 | CDQ | 7 | Matrix 1-0 | 2 | 1.4 | 1.4 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Item | туре | ItemNı | ım | | Confirmed | Comment | |
| | | | | | Diff | ghtfield raction ectra | J6589 J6589 J6589 | 2DF | | SB 9/7/2021 SB 9/7/2021 | 0.53nm RC | W SPACING |
| G5 | 2 | E41 | CM | 8 | Matrix 1-0 | 1.5 | 8.0 | 1.9 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 2 | E41 | СМ | 9 | Fiber | 1.2 | 0.1 | 12 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 3 | E42 | | | NSD | | | | | | | |
| G5 | 4 | H24 | CD | 10 | Fiber | 12 | 0.1 | 120 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G5 | 4 | H24 | CMQ | 11 | Fiber | 31.5 | 0.1 | 315 | Chrysotile | Mg, Si | | ASTM_>=5.0, ASTM_Total |
| G5 | 5 | H32 | СМ | 12 | Fiber | 2.5 | 0.1 | 25 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 5 | H32 | СМ | 13 | Fiber | 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 5 | H32 | СМ | 14 | Matrix 1-0 | 2.5 | 2 | 1.2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 5 | H32 | СМ | 15 | Fiber | 6 | 0.1 | 60 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G5 | 5 | H32 | CM | 16 | Matrix 1-0 | 1.2 | 1 | 1.2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 5 | H32 | CM | 17 | Bundle | 0.6 | 0.2 | 3 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 5 | H32 | СМ | 18 | Fiber | 1.2 | 0.1 | 12 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 5 | H32 | СМ | 19 | Bundle | 1.5 | 0.2 | 7.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 6 | K31 | СМ | 20 | Fiber | 1.1 | 0.1 | 11 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 6 | K31 | CDQ | 21 | Matrix | 2.1 | 1.2 | 1.7 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Item | туре | ItemNı | ım | | Confirmed | Comment | |
| | | | | | Diff | ghtfield raction ectra | J6589 J6589 J6589 | 3DF | | SB 9/7/2021 SB 9/7/2021 | 0.53nm RC | W SPACING |
| G5 | 6 | K31 | СМ | 22 | Fiber | 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |



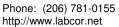
ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210836 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210836R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 8/30/2021

Lab/Cor Sample No: S10 Client Sample No: MV515 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-----|----------|------------|--------|-------|--------|------------|----------|---------|-----------------------------|
| G5 | 6 | K31 | СМ | 23 | Matrix 3-0 | 1.5 | 1 | 1.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 7 | G34 | CMQ | 24 | Matrix 1-0 | 1.4 | 0.9 | 1.6 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 8 | H33 | СМ | 25 | Fiber | 2.5 | 0.1 | 25 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 9 | H41 | СМ | 26 | Matrix 1-0 | 2.5 | 2 | 1.2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 9 | H41 | CM | 27 | Matrix 1-0 | 1.5 | 0.8 | 1.9 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 9 | H41 | CD | 28 | Bundle | 2.2 | 0.6 | 3.7 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 9 | H41 | CM | 29 | Matrix 1-0 | 4 | 2.6 | 1.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 9 | H41 | CM | 30 | Bundle | 1.4 | 0.2 | 7 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 9 | H41 | СМ | 31 | Fiber | 1.8 | 0.1 | 18 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 10 | F24 | СМ | 32 | Matrix 1-0 | 4.8 | 1.1 | 4.4 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 10 | F24 | СМ | 33 | Fiber | 1.35 | 0.1 | 13.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 11 | G23 | СМ | 34 | Bundle | 1.2 | 0.2 | 6 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 11 | G23 | СМ | 35 | Matrix 1-0 | 0.8 | 0.4 | 2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 11 | G23 | CD | 36 | Bundle | 8.5 | 0.5 | 17 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G6 | 11 | G23 | CM | 37 | Matrix 1-0 | 1 | 0.4 | 2.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210836 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210836R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 8/30/2021

Lab/Cor Sample No: S11 Client Sample No: MV516 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Commen | nt Count Categories |
|----|-----|------|-----|----------|------------|---------|--------|--------|------------|-----------------------|-----------|-----------------------------|
| G5 | 1 | F42 | CDQ | 1 | Fiber | 1.8 | 0.1 | 18 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Item | Туре | ItemNı | um | | Confirm | ned Co | omment |
| | | | | | Spe | ctra | J6589 | 5SP | | KM 9/7 | //2021 | |
| | | | | | Diffi | raction | J6589 | 5DF | | KM 9/7 | 7/2021 0. | .53nm ROW SPACING |
| | | | | | Brig | htfield | J6589 | 5BF | | | | |
| G5 | 1 | F42 | CD | 2 | Matrix 1-1 | 8.5 | 3 | 2.8 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G5 | 2 | G43 | ADQ | 3 | Bundle | 12.3 | 1.7 | 7.2 | Amosite | Mg, Al, Si, Ca, Fe | | ASTM_>=5.0, ASTM_Total |
| | | | | | Item | Туре | ItemNı | um | | Confirm | ned Co | omment |
| | | | | | Spe | ctra | J6589 | 6SP | | KM 9/7 | //2021 | |
| | | | | | Diffi | raction | J6589 | 6DF | | KM 9/7 | 7/2021 0. | .53nm ROW SPACING |
| | | | | | Brig | htfield | J6589 | 6BF | | | | |
| G5 | 2 | G43 | CM | 4 | Fiber | 4.8 | 0.05 | 96 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 2 | G43 | CD | 5 | Fiber | 1.2 | 0.08 | 15 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 2 | G43 | CD | 6 | Fiber | 4.5 | 0.11 | 40.9 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 3 | G43 | CD | 7 | Fiber | 8.8 | 0.1 | 88 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G6 | 4 | F52 | CD | 8 | Fiber | 1.3 | 0.08 | 16.2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 4 | F52 | СМ | 9 | Bundle | 1.85 | 0.4 | 4.6 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 4 | F52 | СМ | 10 | Fiber | 0.7 | 0.05 | 14 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 4 | F52 | СМ | 11 | Matrix 1-0 | 0.95 | 0.6 | 1.6 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 4 | F52 | CD | 12 | Fiber | 1.2 | 0.08 | 15 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |

Lab/Cor Sample No: S12 Client Sample No: MV517 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width As | spect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|----------|-------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | NSD | | | | | | | |
| G1 | 2 | F51 | | NSD | | | | | | | |
| G2 | 3 | F34 | | NSD | | | | | | | |
| G2 | 4 | G41 | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210836 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210836R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 8/30/2021

Lab/Cor Sample No: S13 Client Sample No: MV518 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Element | s Com | ment | Count Categories |
|----|-----|------|-----|----------|-------|----------|--------|--------|------------|---------|----------|-----------|-----------------------------|
| G1 | 1 | E33 | | | NSD | | | | | | | | |
| G1 | 2 | E34 | CDQ | 1 | Fiber | 1.47 | 0.08 | 18.4 | Chrysotile | Mg, S | Si | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Item | туре | ItemNu | m | | Cor | nfirmed | Comment | |
| | | | | | Diff | raction | F6589 | 4DF | | SH | 9/7/2021 | 0.53nm RC | W SPACING |
| | | | | | Spe | ectra | F6589 | 4SP | | SH | 9/7/2021 | | |
| | | | | | Brig | ghtfield | F6589 | 4BF | | | | | |
| G1 | 2 | E34 | CM | 2 | Fiber | 1.03 | 0.08 | 12.9 | Chrysotile | | See | F65894BF | ASTM_0.5-5.0, ASTM_Total |
| G2 | 3 | C41 | | | NSD | | | | | | | | |
| G2 | 4 | C42 | | | NSD | | | | | | | | |

Lab/Cor Sample No: S14 Client Sample No: MV519 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | G43 | | NSD | | | | | | | |
| G1 | 2 | G44 | | NSD | | | | | | | |
| G2 | 3 | E41 | | NSD | | | | | | | |
| G2 | 4 | F41 | | NSD | | | | | | | |

Lab/Cor Sample No: S15 Client Sample No: MV520 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F41 | | NSD | | | | | | | |
| G1 | 2 | F42 | | NSD | | | | | | | |
| G2 | 3 | E34 | | NSD | | | | | | | |
| G2 | 4 | G33 | | NSD | | | | | | | |

Lab/Cor Sample No: S16 Client Sample No: MV521 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width A | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|---------|--------|---------|----------|---------|------------------|
| G1 | 1 | C43 | | NSD | | | | | | | |
| G1 | 2 | C44 | | NSD | | | | | | | |
| G1 | 3 | E43 | | NSD | | | | | | | |
| G1 | 4 | C51 | | NSD | | | | | | | |
| G1 | 5 | C52 | | NSD | | | | | | | |
| G2 | 6 | C33 | | NSD | | | | | | | |
| G2 | 7 | C34 | | NSD | | | | | | | |
| G2 | 8 | E33 | | NSD | | | | | | | |
| G2 | 9 | E34 | | NSD | | | | | | | |
| G2 | 10 | F33 | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210836 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210836R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 8/30/2021

Count Categories

 $ASTM_>=5.0 \quad ASTM \ Asbestos >= 5.0 \mu m \quad ASTM_0.5-5.0 \quad ASTM \ Asbestos >= 0.5 \mu m \quad ASTM_Total \quad ASTM_Tot$

ASTMD_Other ASTM Libby-Other >0.5µm

Reviewed by:

Klazen

Quality Control Officer



210836 LABORATORY CHAIN OF CUSTODY

| Project: Pierce College Olympic South Abatement and Repairs | Project #:40535.488 |
|---|----------------------------|
| Analysis requested: ASTM microvac dust sample | Date: 8/30/2021 |
| Relinq'd by/Signature: Laur J-Sai | Date/Time: 8/30 /2021 |
| Received by/Signature: | Date/Time: \$30/21 5:45 PM |
| Email ALL INVOICES to: seattleap@pbsusa | a.com |
| E-mail results to: | |
| ☐ Brian Stanford ☐ Prudy Stoudt-McRae | ☐ Mike Smith |
| ☐ Willem Mager ☐ Janet Murphy | Ferman Fletcher |
| ☐ Gregg Middaugh ☐ Kaitlin Soukup | Ryan Hunter |
| ☐ Mark Hiley ☐ Claire Tsai | ☐ Michelle Dodson |
| ☐ Tim Ogden ☐ Holly Tuttle | Toan Nguyen |
| TURN AROUND TIME: | |
| ☐ 1 Hour ☐ 24 Hours | |
| 2 Hours 48 Hours | Other |
| LOD <1000 | |

| | | SAMPLE DATA FORM | | | | | | | |
|----------|--------------------|--|---|--------|--|--|--|--|--|
| Sample # | Material | Loca | tion | Lab | | | | | |
| MV506 | Dust - 100cm2 area | Blue kiddie pool – North shed – ECE | | Labcor | | | | | |
| MV507 | Dust - 100cm2 area | Black toy truck - North shed - ECE | | | | | | | |
| MV508 | Dust - 100cm2 area | Plastic water pitcher - North shed - E | ECE | | | | | | |
| MV509 | Dust - 100cm2 area | Blue & red kids' life-jacket - North she | ed – ECE | | | | | | |
| MV510 | Dust - 100cm2 area | Bowling pin – North shed – ECE | | | | | | | |
| MV511 | Dust - 100cm2 area | Black swimming flipper - Central shee | ck swimming flipper – Central shed – ECE | | | | | | |
| MV512 | Dust - 100cm2 area | Wooden, stackable box - Central she | ooden, stackable box – Central shed – ECE | | | | | | |
| MV513 | Dust - 100cm2 area | Metal alloy dish - Central shed - ECE | letal alloy dish – Central shed – ECE | | | | | | |
| MV514 | Dust - 100cm2 area | Connectable wooden pieces – Central shed – ECE | | | | | | | |
| MV515 | Dust - 100cm2 area | Yellow toy play set - Central shed - E | ECE | | | | | | |
| MV516 | Dust - 100cm2 area | Blue & white gym mat – South shed – | - ECE | | | | | | |
| MV517 | Dust - 100cm2 area | Yellow studded flooring – traffic play s | set - South shed - ECE | | | | | | |
| MV518 | Dust - 100cm2 area | Stop sign - traffic play set - South sh | ed – ECE | | | | | | |
| MV519 | Dust - 100cm2 area | Orange plastic wheelbarrow – South | shed – ECE | | | | | | |
| MV520 | Dust - 100cm2 area | Black faux leather football - South sh | ed – ECE | | | | | | |
| MV521 | | Field Blank | | | | | | | |
| | | | Reviewed by: | | | | | | |
| | | | Results Released: | | | | | | |
| | I. | | Fax Verbals USPS Invoice Released: | Email | | | | | |



ASTM D 5755-09 - Microvac Final Report

Job Number: 210895 Report Number: 210895R01 Report Date: 9/15/2021

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample # Client Sample # and Description Analysis Date Received: **Analysis Notes** 9/10/2021

210895 - S1 MV522 -ASTM D 5755-09 - Microvac Some Mg, Al, Si fibers present.

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Kate March Quality Control Officer



ASTM D 5755-09 - Microvac Final Report

Job Number: 210895 SEA Report Number: 210895R01
Client: PBS Engineering + Environmental Date Received: 9/10/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV522 Lab Filter Area (mm2): 289.38

Description:Grid Openings Analyzed: 6Filter Fraction: 1Aliquot Dilution: 0.05Average Grid Opening Area: 0.011Residual Ash Vol: 20 mlFinal Dilution: 0.05Area Analyzed (mm2): 0.066

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.909
Volume Taken: 1 ml

Analyst(s) Analysis Date Microscope Magnification KM 9/15/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 876.909 | 0 - 3234.918 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | 876.909 | 21.923 - 4886.137 - Poisson | 1 |
| ASTM Libby-Other >0.5μm | < 876.909 | 0 - 3234.918 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 876.909 | 21.923 - 4886.137 - Poisson | 1 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.







ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210895 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210895R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/10/2021

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV522 Description:

| | | escripti | .011. | | | | | | | | | |
|-------|---------|----------|--------------------|------------|------------|------------|--------|------------|-----------------|------------------|----------|-----------------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comm | nent Count Categories |
| G13 | 1 | G62 | | | NSD | | | | | | | |
| G13 | 2 | H51 | | | NSD | | | | | | | |
| G13 | 3 | C43 | ADQ | 1 | Matrix 1-1 | 6.3 | 5.8 | 1.1 | Tremolite | Mg, Si, Ca Fe | а, | ASTM_>=5.0, ASTM_Total |
| | | | | | Ite | mType | ItemNu | ım | | Confi | med | Comment |
| | | | | | Sp | ectra | J6597 | 6SP | | KM 9 | /15/2021 | |
| | | | | | Dit | ffraction | J6597 | 6DF | | KM 9 | /15/2021 | 0.53nm ROW SPACING |
| | | | | | Br | ightfield | J6597 | 6BF | | | | |
| G14 | 4 | C53 | | | NSD | | | | | | | |
| G14 | 5 | E53 | | | NSD | | | | | | | |
| G14 | 6 | G51 | | | NSD | | | | | | | |
| Count | Catego | ries | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM | M Asbestos >=5.0μm | | AS | TM_0.5-5.0 | ASTM A | sbestos >= | :0.5μm - <5.0μι | m ASTM | 1_Total | ASTM Total Asbestos >=0.5µm |
| ASTM | D_Other | ASTM | Libby-Oth | ner >0.5µm | | | | | | | | |

Reviewed by:

Kate March

Quality Control Officer



LABORATORY CHAIN OF CUSTODY

| elinq'd by/ ecceived by -mail result Brian Sta Willem M Gregg M Mark Hill | /Signature: //// //Signature: /// //Signa | Email ALL INVOICES to: sea Prudy Stoudt-McRa Janet Murphy Kaitlin Soukup Claire Tsai Holly Tuttle | Date: 9/10/2021 Date/Time: 9/10/202 (7 Date/Time: 9/13 24 86 Attleap@pbsusa.com | AFFECT HO D am |
|---|--|--|---|----------------------|
| TURN AROU 1 Hour 2 Hours 4 Hours | | 24 Hours 48 Hours | 5 Days Other | |
| | 19 17 41 22 | SAMPLE DATA | FORM | |
| Sample # | Material | | Location | Lab Labcor |
| MV522 | | | | |
| | | | | |
| | | | Reviewed by: | |



ASTM D 5755-09 - Microvac Final Report

Job Number: 210902 Report Number: 210902R01 Report Date: 9/15/2021

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Sample # | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|------------------|----------------------|---------------------------|---------------------------------|----------------|
| 210902 - S1 | MV523 - | ASTM D 5755-09 - Microvac | Many Mg, Al, Si fibers. | 9/14/2021 |
| 210902 - S2 | MV524 - | ASTM D 5755-09 - Microvac | Many Mg, Al, Si fibers present. | 9/14/2021 |
| 210902 - S3 | MV525 - | ASTM D 5755-09 - Microvac | Many Mg, Al, Si fibers present. | 9/14/2021 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Kate March **Quality Control Officer**



ASTM D 5755-09 - Microvac Final Report

Job Number: 210902 SEA Report Number: 210902R01

Client: PBS Engineering + Environmental Date Received: 9/14/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV523 Lab Filter Area (mm2): 289.38

Description: Grid Openings Analyzed: 21

Filter Fraction: 1 Aliquot Dilution: 0.005 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.005 Area Analyzed (mm2): 0.231

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 2505.455

Volume Taken: 0.1 ml

Analyst(s) Analysis Date Microscope Magnification
KM 9/15/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 2505.455 | 62.636 - 13960.393 - Poisson | 1 |
| ASTM Asbestos >=5.0μm | < 2505.455 | 0 - 9242.622 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 2505.455 | 0 - 9242.622 - Poisson | 0 |
| ASTM Total Asbestos >=0.5µm | 2505.455 | 62.636 - 13960.393 - Poisson | 1 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV524

Description:

Filter Fraction: 1

Aliquot Dilution: 0.075

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.909

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification
SB 9/15/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 876.909 | 0 - 3234.918 - Poisson | 0 |
| ASTM Asbestos >=5.0µm | < 876.909 | 0 - 3234.918 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.909 | 0 - 3234.918 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 876.909 | 0 - 3234.918 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



Volume Taken: 0.5 ml

Phone: (206) 781-0155 http://www.labcor.net

ASTM D 5755-09 - Microvac Final Report

Job Number: 210902 SEA Report Number: 210902R01
Client: PBS Engineering + Environmental Date Received: 9/14/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV525 Lab Filter Area (mm2): 289.38

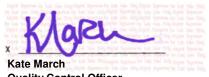
Description:Grid Openings Analyzed: 11Filter Fraction: 1Aliquot Dilution: 0.025Average Grid Opening Area: 0.011Residual Ash Vol: 20 mlFinal Dilution: 0.025Area Analyzed (mm2): 0.121

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 956.628

Analyst(s)Analysis DateMicroscopeMagnificationKM9/15/2021JEOL-Sr 120020000

95% Confidence Structure Structure Concen-Count¹ tration Interval Type Prim/Total (struc/cm2) (struc/cm2) ASTM Asbestos >=0.5μm - <5.0μm < 956.628 0 - 3529.001 - Poisson 0 0 - 3529.001 - Poisson 0 ASTM Asbestos >=5.0µm < 956.628 ASTM Libby-Other >0.5µm < 956.628 0 - 3529.001 - Poisson 0 ASTM Total Asbestos >=0.5µm < 956.628 0 - 3529.001 - Poisson 0

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210902 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210902R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/14/2021

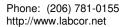
Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: MV523
Description:

| 2 3 4 5 6 7 8 9 | F34 G33 G34 H33 H34 B42 C41 C42 E41 | | | NSD NSD NSD NSD NSD NSD NSD NSD NSD | | | | | | | | |
|--------------------------------------|---|--|--|--|--|---|---|--|---|---|--|--|
| 3 4 5 6 7 8 9 | G34 H33 H34 B42 C41 C42 E41 | | | NSD NSD NSD NSD | | | | | | | | |
| 4 5 6 7 8 9 | H33 H34 B42 C41 C42 E41 | | | NSD NSD NSD NSD | | | | | | | | |
| 5 6 7 8 9 | H34 B42 C41 C42 E41 | | | NSD NSD NSD | | | | | | | | |
| 6 7 8 9 | B42 C41 C42 E41 | | | NSD NSD | | | | | | | | |
| 7 8 9 10 | C41 C42 E41 | | | NSD | | | | | | | | |
| 8 9 10 | C42 E41 | | | | | | | | | | | |
| 9 | E41 | | | NSD | | | | | | | | |
| 10 | | | | | | | | | | | | |
| | | | | NSD | | | | | | | | |
| | E42 | | | NSD | | | | | | | | |
| 11 | F41 | | | NSD | | | | | | | | |
| 12 | F42 | | | NSD | | | | | | | | |
| 13 | E33 | | | NSD | | | | | | | | |
| 14 | E34 | | | NSD | | | | | | | | |
| 15 | F33 | | | NSD | | | | | | | | |
| 16 | F34 | | | NSD | | | | | | | | |
| 17 | G33 | | | NSD | | | | | | | | |
| 18 | G34 | | | NSD | | | | | | | | |
| 19 | H33 | | | NSD | | | | | | | | |
| 20 | H34 | | | NSD | | | | | | | | |
| 21 | C42 | CDQ | 1 | Bundle | 4.1 | 0.22 | 18.6 | Chrysotile | e Mg, Si | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | Item | Туре | ltemΝι | ım | | | | Comment | |
| | | | | Spe | ctra | J6597 | 7SP | | KM 9/ | 15/2021 | | |
| | | | | | | | | | KM 9/ | 15/2021 | 0.53nm ROV | V SPACING - Very fain |
| 1 1 1 1 1 2 | 1 2 3 4 5 6 7 8 9 | 1 F41 2 F42 3 E33 4 E34 5 F33 6 F34 7 G33 8 G34 9 H33 0 H34 | 1 F41 2 F42 3 E33 4 E34 5 F33 6 F34 7 G33 8 G34 9 H33 0 H34 | 1 F41 2 F42 3 E33 4 E34 5 F33 6 F34 7 G33 8 G34 9 H33 0 H34 | 1 F41 NSD 2 F42 NSD 3 E33 NSD 4 E34 NSD 5 F33 NSD 6 F34 NSD 7 G33 NSD 8 G34 NSD 9 H33 NSD 0 H34 NSD 1 C42 CDQ 1 Bundle | 1 F41 NSD 2 F42 NSD 3 E33 NSD 4 E34 NSD 5 F33 NSD 6 F34 NSD 7 G33 NSD 8 G34 NSD 9 H33 NSD 0 H34 NSD | 1 F41 NSD 2 F42 NSD 3 E33 NSD 4 E34 NSD 5 F33 NSD 6 F34 NSD 7 G33 NSD 8 G34 NSD 9 H33 NSD 1 C42 CDQ 1 Bundle 4.1 0.22 ItemType ItemNu Spectra | 1 F41 NSD 2 F42 NSD 3 E33 NSD 4 E34 NSD 5 F33 NSD 6 F34 NSD 7 G33 NSD 8 G34 NSD 9 H33 NSD 0 H34 NSD 1 C42 CDQ 1 Bundle 4.1 0.22 18.6 ItemType ItemNum Spectra | 1 F41 NSD 2 F42 NSD 3 E33 NSD 4 E34 NSD 5 F33 NSD 6 F34 NSD 7 G33 NSD 8 G34 NSD 9 H33 NSD 0 H34 NSD 1 C42 CDQ 1 Bundle 4.1 0.22 18.6 Chrysotile ItemType ItemNum Spectra J65977SP Diffraction J65977DF | 1 F41 NSD 2 F42 NSD 3 E33 NSD 4 E34 NSD 5 F33 NSD 6 F34 NSD 7 G33 NSD 8 G34 NSD 9 H33 NSD 1 C42 CDQ 1 Bundle 4.1 0.22 18.6 Chrysotile Mg, Si ItemType ItemNum Confir | 1 F41 NSD 2 F42 NSD 3 E33 NSD 4 E34 NSD 5 F33 NSD 6 F34 NSD 7 G33 NSD 8 G34 NSD 9 H33 NSD 1 C42 CDQ 1 Bundle 4.1 0.22 18.6 Chrysotile Mg, Si ItemType | 1 F41 NSD 2 F42 NSD 3 E33 NSD 4 E34 NSD 5 F33 NSD 6 F34 NSD 7 G33 NSD 8 G34 NSD 9 H33 NSD 0 H34 NSD 1 C42 CDQ 1 Bundle 4.1 0.22 18.6 Chrysotile Mg, Si ItemType |

Lab/Cor Sample No: S2 Client Sample No: MV524 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G5 | 1 | F42 | | NSD | | | | | | | |
| G5 | 2 | G44 | | NSD | | | | | | | |
| G6 | 3 | E51 | | NSD | | | | | | | |
| G6 | 4 | C54 | | NSD | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210902 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210902R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/14/2021

Lab/Cor Sample No: S3 Client Sample No: MV525 Description:

| Gr | No. | Loc. | ID P | rim Tot | Class | Length | Width | Aspect | Analyte | Elements | Com | ment | Count Categ | ories |
|-------|---------|----------|-----------|---------|-------|-------------|--------|------------|---------------|----------|---------|-----------|-------------------|-------|
| G3 | 1 | C32 | | | NSD | | | | | | | | | |
| G3 | 2 | E31 | | | NSD | | | | | | | | | |
| G3 | 3 | E34 | | | NSD | | | | | | | | | |
| G3 | 4 | F33 | | | NSD | | | | | | | | | |
| G3 | 5 | F42 | | | NSD | | | | | | | | | |
| G3 | 6 | G41 | | | NSD | | | | | | | | | |
| G4 | 7 | C24 | | | NSD | | | | | | | | | |
| G4 | 8 | E23 | | | NSD | | | | | | | | | |
| G4 | 9 | E32 | | | NSD | | | | | | | | | |
| G4 | 10 | F31 | | | NSD | | | | | | | | | |
| G4 | 11 | F34 | | | NSD | | | | | | | | | |
| Count | Categor | ies | | | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM As | bestos >= | =5.0μm | А | STM_0.5-5.0 | ASTM A | sbestos >= | 0.5µm - <5.0µ | ım AST | M_Total | ASTM Tota | al Asbestos >=0.5 | ım |
| ASTM | D_Other | ASTM Lik | by-Other | >0.5µm | | | | | | | | | | |

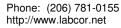
Reviewed by:

X Kate March
Quality Control Officer



210902 LABORATORY CHAIN OF CUSTODY

| Prudy Stoudt-M Janet Murphy Kaitlin Soukup | Ferman Fletcher | | | | |
|--|--|--|--|--|--|
| Prudy Stoudt-M Janet Murphy Kaitlin Soukup | Seattleap@pbsusa.com McRae | | | | |
| Prudy Stoudt-M Janet Murphy Kaitlin Soukup | McRae Mike Smith Ferman Fletcher | | | | |
| Prudy Stoudt-M Janet Murphy Kaitlin Soukup | McRae Mike Smith Ferman Fletcher | | | | |
| Claire Tsai Holly Tuttle 24 Hours 48 Hours | Ryan Hunter Michelle Dodson Toan Nguyen 5 Days Other RUSH | | | | |
| SAMPLE DA | ATA FORM | | | | |
| Location | | | | | |
| 320 inside base of I | H7RB Sec 2 Electrical panel Labor | | | | |
| 330 reception north | h wall above ceiling at conduit penetration | | | | |
| Room 331 north wall above ceiling at conduit penetration | | | | | |
| | Reviewed by: | | | | |
| | Results Released: Fax Verbals USPS Email Invoice Released: Fax USPS Email | | | | |
| | | | | | |





ASTM D 5755-09 - Microvac Final Report

Job Number: 210914 Report Number: 210914R02 Report Date: 9/24/2021

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Report Note: R01: Preliminary report; R02: Final report that includes all the extended analysis.

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Sample # | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|------------------|----------------------|---------------------------|--|----------------|
| 210914 - S1 | MV526 - | ASTM D 5755-09 - Microvac | Loads of Mg, Al, Si fibers present. Additional grid openings needed to reach <1000 sensitivity. | 9/16/2021 |
| 210914 - S2 | MV527 - | ASTM D 5755-09 - Microvac | Many Al, Si fibers present. Additional grid openings needed to reach <1000 sensitivity. | 9/16/2021 |
| 210914 - S3 | MV528 - | ASTM D 5755-09 - Microvac | Many Mg, Al, Si fibers present. Additional grid openings needed to reach <1000 sensitivity. | 9/16/2021 |
| 210914 - S4 | MV529 - | ASTM D 5755-09 - Microvac | Many Mg, Al, Si fibers present. Additional grid openings needed to reach <1000 sensitivity. This sample was also ashed and hydrolyzed to remove background interference. | 9/16/2021 |
| 210914 - S5 | MV530 - | ASTM D 5755-09 - Microvac | Many Mg, Al, Si fibers present. | 9/16/2021 |
| 210914 - S6 | MV531 - | ASTM D 5755-09 - Microvac | | 9/16/2021 |
| 210914 - S7 | MV532 - | ASTM D 5755-09 - Microvac | | 9/16/2021 |
| 210914 - S8 | MV533 - | ASTM D 5755-09 - Microvac | | 9/16/2021 |
| 210914 - S9 | MV534 - | ASTM D 5755-09 - Microvac | | 9/16/2021 |
| 210914 - S10 | MV535 - | ASTM D 5755-09 - Microvac | | 9/16/2021 |
| 210914 - S11 | MV536 - | ASTM D 5755-09 - Microvac | | 9/16/2021 |
| 210914 - S12 | MV537 - | ASTM D 5755-09 - Microvac | | 9/16/2021 |
| 210914 - S13 | MV538 - | ASTM D 5755-09 - Microvac | | 9/16/2021 |



ASTM D 5755-09 - Microvac Final Report

Job Number: 210914 Report Number: 210914R02 Client: PBS Engineering + Environmental Report Date: 9/24/2021

Project Name: Pierce College Olympic South Abatement and Repairs

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15.000 - 20.000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Quality Control Officer



ASTM D 5755-09 - Microvac Final Report

Job Number: 210914 SEA Report Number: 210914R02
Client: PBS Engineering + Environmental Date Received: 9/16/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV526

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 22

Filter Fraction: 1 Aliquot Dilution: 0.0025 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.0025 Area Analyzed (mm2): 0.242

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 4783.1405

Volume Taken: 0.05 ml

Analyst(s)Analysis DateMicroscopeMagnificationKM9/17/2021JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | on Interval | |
|--------------------------------|-----------------------------------|---------------------------------|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 4783.1405 | 119.5785 - 26651.6588 - Poisson | 1 |
| ASTM Asbestos >=5.0μm | < 4783.1405 | 0 - 17645.0053 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 4783.1405 | 0 - 17645.0053 - Poisson | 0 |
| ASTM Total Asbestos >=0.5µm | 4783.1405 | 119.5785 - 26651.6588 - Poisson | 1 |

¹ Concentration and 95% Confidence Level are <u>calculated based upon the number showing under the Structure Count header.</u>

Lab/Cor Sample No.: S2 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV527

Description:

Filter Fraction: 1

Aliquot Dilution: 0.0025

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 106

Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.0025 Area Analyzed (mm2): 1.166

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 992.7273

Volume Taken: 0.05 ml

Analyst(s) Analysis Date Microscope Magnification
KM 9/18/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|-----------------------------------|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 992.7273 | 0 - 3662.1709 - Poisson | 0 | |
| ASTM Asbestos >=5.0μm | < 992.7273 | 0 - 3662.1709 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 992.7273 | 0 - 3662.1709 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5µm | < 992.7273 | 0 - 3662.1709 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210914 SEA Report Number: 210914R02
Client: PBS Engineering + Environmental Date Received: 9/16/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV528

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 11

Filter Fraction: 1 Aliquot Dilution: 0.025 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.025 Area Analyzed (mm2): 0.121

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 956.6281

Volume Taken: 0.5 ml

Analyst(s) Analysis Date Microscope Magnification
KM 9/17/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 956.6281 | 0 - 3529.0011 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 956.6281 | 0 - 3529.0011 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 956.6281 | 0 - 3529.0011 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 956.6281 | 0 - 3529.0011 - Poisson | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV529

Description:

Grid Openings Analyzed: 483

Filter Fraction: 1

Aliquot Dilution: 0.0005

Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.0005 Area Analyzed (mm2): 5.796

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 998.5507

Volume Taken: 0.01 ml

| Analyst(s) | Analysis Date | Microscope | Magnification |
|------------|----------------------|----------------|---------------|
| SB | 9/20/2021 | JEOL-Sr 1200 | 20000 |
| KM | 9/20/2021 | JEOL-Sr 1200 | 20000 |
| SB | 9/21/2021 | JEOL-Sr 1200 | 20000 |
| SH | 9/23/2021 | Hitachi 7000FA | 20000 |
| SH | 9/24/2021 | Hitachi 7000FA | 20000 |

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 998.5507 | 0 - 3683.6536 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 998.5507 | 0 - 3683.6536 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 998.5507 | 0 - 3683.6536 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 998.5507 | 0 - 3683.6536 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210914 SEA Report Number: 210914R02

Client: PBS Engineering + Environmental Date Received: 9/16/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S5 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV530

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 6

Filter Fraction: 1 Aliquot Dilution: 0.05 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.05 Area Analyzed (mm2): 0.066

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1 ml

Analyst(s) Analysis Date Microscope Magnification
KM 9/17/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S6 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV531

Description:

Grid Openings Analyzed: 4

Filter Freetien: 1

Alignet Pilution: 0.075

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification
KM 9/17/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|-----------------------------------|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 | |
| ASTM Asbestos >=5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210914 SEA Report Number: 210914R02
Client: PBS Engineering + Environmental Date Received: 9/16/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S7 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV532

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.0025 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.0025 Area Analyzed (mm2): 0.11

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 10522.9091

Volume Taken: 0.05 ml

Analyst(s)Analysis DateMicroscopeMagnificationKM9/17/2021JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | | |
|--------------------------------|-----------------------------------|---|---|--|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 347256 | 239027.88 - 487684.2218 - Poisson | 33 | | |
| ASTM Asbestos >=5.0μm | 42091.6364 | 11469.9709 - 107775.6349 - Poisson | 4 | | |
| ASTM Libby-Other >0.5μm | < 10522.9091 | 0 - 38819.0116 - Poisson | 0 | | |
| ASTM Total Asbestos >=0.5μm | 389347.6364 | 274121.7818 - 536668.3636 - Poisson | 37 | | |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S8 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV533

Description:

Filter Fraction: 1

Aliquot Dilution: 0.0025

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.0025 Area Analyzed (mm2): 0.11

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 10522.9091

Volume Taken: 0.05 ml

Analyst(s) Analysis Date Microscope Magnification
KM 9/17/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 84183.2727 | 36346.128 - 165883.1389 - Poisson | 8 | |
| ASTM Asbestos >=5.0μm | < 10522.9091 | 0 - 38819.0116 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 10522.9091 | 0 - 38819.0116 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5μm | 84183.2727 | 36346.128 - 165883.1389 - Poisson | 8 | |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



Analytical Sens. (struc/cm2): 10522.9091

ASTM D 5755-09 - Microvac Final Report

Job Number: 210914 SEA Report Number: 210914R02
Client: PBS Engineering + Environmental Date Received: 9/16/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S9 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV534

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.005 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.005 Area Analyzed (mm2): 0.11

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 5261.4545

Volume Taken: 0.1 ml

Analyst(s) Analysis Date Microscope Magnification
KM 9/17/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | | |
|--------------------------------|-----------------------------------|---|---|--|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 121013.4545 | 76717.2687 - 181583.3193 - Poisson | 23 | | |
| ASTM Asbestos >=5.0μm | < 5261.4545 | 0 - 19409.5058 - Poisson | 0 | | |
| ASTM Libby-Other >0.5μm | < 5261.4545 | 0 - 19409.5058 - Poisson | 0 | | |
| ASTM Total Asbestos >=0.5μm | 121013.4545 | 76717.2687 - 181583.3193 - Poisson | 23 | | |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S10 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV535

Description:

Filter Fraction: 1

Aliquot Dilution: 0.0025

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.0025 Average Grid Opening Area: 0.0011

Aliquot Dilution: 0.0025 Average Grid Opening Area: 0.0011

Area Analyzed (mm2): 0.11

Begin Volume: 20 ml Volume Taken: 0.05 ml

Analyst(s) Analysis Date Microscope Magnification
KM 9/17/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | | |
|--------------------------------|-----------------------------------|---|---|--|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 220981.0909 | 136797.8182 - 337795.9047 - Poisson | 21 | | |
| ASTM Asbestos >=5.0μm | 42091.6364 | 11469.9709 - 107775.6349 - Poisson | 4 | | |
| ASTM Libby-Other >0.5μm | < 10522.9091 | 0 - 38819.0116 - Poisson | 0 | | |
| ASTM Total Asbestos >=0.5μm | 263072.7273 | 170239.6233 - 388347.96 - Poisson | 25 | | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210914 SEA Report Number: 210914R02
Client: PBS Engineering + Environmental Date Received: 9/16/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S11 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV536

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationKM9/17/2021JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 1753.8182 | 212.212 - 6335.6682 - Poisson | 2 |
| ASTM Asbestos >=5.0μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 1753.8182 | 212.212 - 6335.6682 - Poisson | 2 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S12 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV537

Description:

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.011

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.044

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 876.9091

Volume Taken: 1.5 ml

 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 KM
 9/17/2021
 JEOL-Sr 1200
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | | |
|--------------------------------|-----------------------------------|---|---|--|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 25430.3636 | 17031.3284 - 36522.3867 - Poisson | 29 | | |
| ASTM Asbestos >=5.0μm | 6138.3636 | 2467.6222 - 12647.6598 - Poisson | 7 | | |
| ASTM Libby-Other >0.5μm | < 876.9091 | 0 - 3234.9176 - Poisson | 0 | | |
| ASTM Total Asbestos >=0.5µm | 31568.7273 | 22109.5089 - 43705.1491 - Poisson | 36 | | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Report Number: 210914R02 SEA Job Number: 210914 **Date Received: 9/16/2021** Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S13 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV538 Lab Filter Area (mm2): 289.38

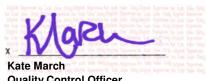
Description: **Grid Openings Analyzed:** 10 Filter Fraction: 1 Aliquot Dilution: 0.00125 Average Grid Opening Area: 0.011 Residual Ash Vol: 20 ml Final Dilution: 0.00125 Area Analyzed (mm2): 0.11

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 21045.8182 Volume Taken: 0.025 ml

Analysis Date Magnification Analyst(s) Microscope KM9/17/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|-----------------------------------|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 63137.4545 | 13027.3615 - 184508.688 - Poisson | 3 | |
| ASTM Asbestos >=5.0μm | < 21045.8182 | 0 - 77638.0233 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 21045.8182 | 0 - 77638.0233 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5μm | 63137.4545 | 13027.3615 - 184508.688 - Poisson | 3 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210914R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/16/2021

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: MV526

| | | Descript | ion: | | | | | | | | | | |
|----|-----|----------|------|----------|-------|----------|--------|--------|------------|--------------------------|--------|-------------------------|--------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comm | ent Count Categori | es |
| G7 | 1 | C34 | | | NSD | | | | | | | | |
| G7 | 2 | E33 | | | NSD | | | | | | | | |
| G7 | 3 | E34 | | | NSD | | | | | | | | |
| G7 | 4 | F34 | | | NSD | | | | | | | | |
| G7 | 5 | G33 | | | NSD | | | | | | | | |
| G8 | 6 | F42 | | | NSD | | | | | | | | |
| G8 | 7 | G41 | | | NSD | | | | | | | | |
| G8 | 8 | G42 | | | NSD | | | | | | | | |
| G8 | 9 | H41 | | | NSD | | | | | | | | |
| G8 | 10 | H42 | | | NSD | | | | | | | | |
| G7 | 11 | B42 | | | NSD | | | | | | | | |
| G7 | 12 | C41 | | | NSD | | | | | | | | |
| G7 | 13 | F41 | | | NSD | | | | | | | | |
| G7 | 14 | G41 | | | NSD | | | | | | | | |
| G7 | 15 | G42 | | | NSD | | | | | | | | |
| G7 | 16 | H42 | | | NSD | | | | | | | | |
| G7 | 17 | K41 | | | NSD | | | | | | | | |
| G7 | 18 | B44 | | | NSD | | | | | | | | |
| G7 | 19 | C43 | | | NSD | | | | | | | | |
| G7 | 20 | C44 | | | NSD | | | | | | | | |
| G7 | 21 | E44 | | | NSD | | | | | | | | |
| G7 | 22 | F43 | ADQ | 1 | Fiber | 3.6 | 0.4 | 9 | Actinolite | Mg, Al, Si, K, Ca, Fe | | ASTM_Total, ASTM 5.0 | 1_0.5- |
| | | | | | Iten | туре | ltemΝι | | | Confirm | | Comment | |
| | | | | | - | ectra | J66033 | | | KM 9/1 | | | |
| | | | | | | raction | J66033 | | | KM 9/1 | 7/2021 | 0.53nm ROW SPACING | |
| | | | | | Brig | ghtfield | J66033 | SBF | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210914R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/16/2021

| | | Description | n: | | | | | | | | | |
|----|-----|-------------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G1 | 1 | C34 | | | NSD | | | | | | | |
| G1 | 2 | E33 | | | NSD | | | | | | | |
| G1 | 3 | E34 | | | NSD | | | | | | | |
| G1 | 4 | F33 | | | NSD | | | | | | | |
| G1 | 5 | F34 | | | NSD | | | | | | | |
| G2 | 6 | C31 | | | NSD | | | | | | | |
| G2 | 7 | C32 | | | NSD | | | | | | | |
| G2 | 8 | E31 | | | NSD | | | | | | | |
| G2 | 9 | E32 | | | NSD | | | | | | | |
| G2 | 10 | F31 | | | NSD | | | | | | | |
| G1 | 11 | E41 | | | NSD | | | | | | | |
| G1 | 12 | E42 | | | NSD | | | | | | | |
| G1 | 13 | F41 | | | NSD | | | | | | | |
| G1 | 14 | F42 | | | NSD | | | | | | | |
| G1 | 15 | G41 | | | NSD | | | | | | | |
| G1 | 16 | G42 | | | NSD | | | | | | | |
| G1 | 17 | H41 | | | NSD | | | | | | | |
| G1 | 18 | H42 | | | NSD | | | | | | | |
| G1 | 19 | C43 | | | NSD | | | | | | | |
| G1 | 20 | C44 | | | NSD | | | | | | | |
| G1 | 21 | E43 | | | NSD | | | | | | | |
| G1 | 22 | E44 | | | NSD | | | | | | | |
| G1 | 23 | F43 | | | NSD | | | | | | | |
| G1 | 24 | F44 | | | NSD | | | | | | | |
| G1 | 25 | G43 | | | NSD | | | | | | | |
| G1 | 26 | G44 | | | NSD | | | | | | | |
| G1 | 27 | H43 | | | NSD | | | | | | | |
| G1 | 28 | H44 | | | NSD | | | | | | | |
| G1 | 29 | E51 | | | NSD | | | | | | | |
| G1 | 30 | F52 | | | NSD | | | | | | | |
| G1 | 31 | G51 | | | NSD | | | | | | | |
| G1 | 32 | G52 | | | NSD | | | | | | | |
| G1 | 33 | H51 | | | NSD | | | | | | | |
| G1 | 34 | H52 | | | NSD | | | | | | | |
| G1 | 35 | G53 | | | NSD | | | | | | | |
| G1 | 36 | G54 | | | NSD | | | | | | | |
| G1 | 37 | H53 | | | NSD | | | | | | | |
| G1 | 38 | H54 | | | NSD | | | | | | | |
| G1 | 39 | G33 | | | NSD | | | | | | | |
| G1 | 40 | G34 | | | NSD | | | | | | | |
| G1 | 41 | H33 | | | NSD | | | | | | | |
| | | | | | | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210914R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/16/2021

| | L | Description |)III: | | | | | | | | | | |
|----|-----|-------------|-------|------|-----|-------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G1 | 42 | H34 | | | | NSD | | | | | | | |
| G1 | 43 | K33 | | | | NSD | | | | | | | |
| G1 | 44 | C31 | | | | NSD | | | | | | | |
| G1 | 45 | C32 | | | | NSD | | | | | | | |
| G1 | 46 | E31 | | | | NSD | | | | | | | |
| G1 | 47 | E32 | | | | NSD | | | | | | | |
| G1 | 48 | F31 | | | | NSD | | | | | | | |
| G1 | 49 | F32 | | | | NSD | | | | | | | |
| G1 | 50 | G31 | | | | NSD | | | | | | | |
| G1 | 51 | G32 | | | | NSD | | | | | | | |
| G1 | 52 | H31 | | | | NSD | | | | | | | |
| G1 | 53 | H32 | | | | NSD | | | | | | | |
| G2 | 54 | G31 | | | | NSD | | | | | | | |
| G2 | 55 | G32 | | | | NSD | | | | | | | |
| G2 | 56 | H31 | | | | NSD | | | | | | | |
| G2 | 57 | H32 | | | | NSD | | | | | | | |
| G2 | 58 | K31 | | | | NSD | | | | | | | |
| G2 | 59 | C33 | | | | NSD | | | | | | | |
| G2 | 60 | C34 | | | | NSD | | | | | | | |
| G2 | 61 | E33 | | | | NSD | | | | | | | |
| G2 | 62 | E34 | | | | NSD | | | | | | | |
| G2 | 63 | F33 | | | | NSD | | | | | | | |
| G2 | 64 | F34 | | | | NSD | | | | | | | |
| G2 | 65 | G33 | | | | NSD | | | | | | | |
| G2 | 66 | G34 | | | | NSD | | | | | | | |
| G2 | 67 | H33 | | | | NSD | | | | | | | |
| G2 | 68 | H34 | | | | NSD | | | | | | | |
| G2 | 69 | B42 | | | | NSD | | | | | | | |
| G2 | 70 | C41 | | | | NSD | | | | | | | |
| G2 | 71 | C42 | | | | NSD | | | | | | | |
| G2 | 72 | E41 | | | | NSD | | | | | | | |
| G2 | 73 | E42 | | | | NSD | | | | | | | |
| G2 | 74 | F41 | | | | NSD | | | | | | | |
| G2 | 75 | F42 | | | | NSD | | | | | | | |
| G2 | 76 | G41 | | | | NSD | | | | | | | |
| G2 | 77 | G42 | | | | NSD | | | | | | | |
| G2 | 78 | H41 | | | | NSD | | | | | | | |
| G2 | 79 | H42 | | | | NSD | | | | | | | |
| G2 | 80 | C43 | | | | NSD | | | | | | | |
| G2 | 81 | C44 | | | | NSD | | | | | | | |
| G2 | 82 | E43 | | | | NSD | | | | | | | |
| | | | | | | | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210914R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/16/2021

Lab/Cor Sample No: S2 Client Sample No: MV527 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G2 | 83 | E44 | | | NSD | | | | | | | |
| G2 | 84 | F43 | | | NSD | | | | | | | |
| G2 | 85 | F44 | | | NSD | | | | | | | |
| G2 | 86 | G43 | | | NSD | | | | | | | |
| G2 | 87 | G44 | | | NSD | | | | | | | |
| G2 | 88 | H43 | | | NSD | | | | | | | |
| G2 | 89 | H44 | | | NSD | | | | | | | |
| G2 | 90 | K43 | | | NSD | | | | | | | |
| G2 | 91 | K44 | | | NSD | | | | | | | |
| G2 | 92 | C51 | | | NSD | | | | | | | |
| G2 | 93 | C52 | | | NSD | | | | | | | |
| G2 | 94 | E51 | | | NSD | | | | | | | |
| G2 | 95 | E52 | | | NSD | | | | | | | |
| G2 | 96 | F51 | | | NSD | | | | | | | |
| G2 | 97 | F52 | | | NSD | | | | | | | |
| G2 | 98 | G51 | | | NSD | | | | | | | |
| G2 | 99 | G52 | | | NSD | | | | | | | |
| G2 | 100 | H51 | | | NSD | | | | | | | |
| G2 | 101 | H52 | | | NSD | | | | | | | |
| G2 | 102 | C54 | | | NSD | | | | | | | |
| G2 | 103 | E53 | | | NSD | | | | | | | |
| G2 | 104 | E54 | | | NSD | | | | | | | |
| G2 | 105 | F53 | | | NSD | | | | | | | |
| G2 | 106 | F54 | | | NSD | | | | | | | |

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G7 | 1 | F24 | | | NSD | | | | | | | |
| G7 | 2 | G23 | | | NSD | | | | | | | |
| G7 | 3 | G24 | | | NSD | | | | | | | |
| G7 | 4 | H23 | | | NSD | | | | | | | |
| G7 | 5 | E31 | | | NSD | | | | | | | |
| G7 | 6 | E32 | | | NSD | | | | | | | |
| G8 | 7 | C51 | | | NSD | | | | | | | |
| G8 | 8 | C52 | | | NSD | | | | | | | |
| G8 | 9 | E51 | | | NSD | | | | | | | |
| G8 | 10 | E54 | | | NSD | | | | | | | |
| G8 | 11 | E62 | | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210914R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/16/2021

| | | escriptio | n: | | | | | | | | | |
|-----|-----|-----------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G10 | 1 | E22 | | | NSD | | | | | | | |
| G10 | 2 | F21 | | | NSD | | | | | | | |
| G10 | 3 | F22 | | | NSD | | | | | | | |
| G10 | 4 | G21 | | | NSD | | | | | | | |
| G10 | 5 | C23 | | | NSD | | | | | | | |
| G10 | 6 | C24 | | | NSD | | | | | | | |
| G10 | 7 | E23 | | | NSD | | | | | | | |
| G10 | 8 | E24 | | | NSD | | | | | | | |
| G10 | 9 | F23 | | | NSD | | | | | | | |
| G10 | 10 | F24 | | | NSD | | | | | | | |
| G10 | 11 | G23 | | | NSD | | | | | | | |
| G10 | 12 | G24 | | | NSD | | | | | | | |
| G10 | 13 | H23 | | | NSD | | | | | | | |
| G10 | 14 | H24 | | | NSD | | | | | | | |
| G10 | 15 | B31 | | | NSD | | | | | | | |
| G10 | 16 | B32 | | | NSD | | | | | | | |
| G10 | 17 | C31 | | | NSD | | | | | | | |
| G10 | 18 | C32 | | | NSD | | | | | | | |
| G10 | 19 | E31 | | | NSD | | | | | | | |
| G10 | 20 | E32 | | | NSD | | | | | | | |
| G10 | 21 | F31 | | | NSD | | | | | | | |
| G10 | 22 | F32 | | | NSD | | | | | | | |
| G10 | 23 | G31 | | | NSD | | | | | | | |
| G10 | 24 | G32 | | | NSD | | | | | | | |
| G10 | 25 | H31 | | | NSD | | | | | | | |
| G10 | 26 | B33 | | | NSD | | | | | | | |
| G10 | 27 | B34 | | | NSD | | | | | | | |
| G10 | 28 | C33 | | | NSD | | | | | | | |
| G10 | 29 | C34 | | | NSD | | | | | | | |
| G10 | 30 | E33 | | | NSD | | | | | | | |
| G10 | 31 | E34 | | | NSD | | | | | | | |
| G10 | 32 | F33 | | | NSD | | | | | | | |
| G10 | 33 | F34 | | | NSD | | | | | | | |
| G10 | 34 | G33 | | | NSD | | | | | | | |
| G10 | 35 | G34 | | | NSD | | | | | | | |
| G10 | 36 | H33 | | | NSD | | | | | | | |
| G10 | 37 | H34 | | | NSD | | | | | | | |
| G10 | 38 | K33 | | | NSD | | | | | | | |
| G10 | 39 | K34 | | | NSD | | | | | | | |
| G10 | 40 | A42 | | | NSD | | | | | | | |
| G10 | 41 | B41 | | | NSD | | | | | | | |
| | | | | | | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210914R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/16/2021

| | | escription) | n: | | | | | | | | | |
|-----|-----|-------------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G10 | 42 | B42 | | | NSD | | | | | | | |
| G10 | 43 | C41 | | | NSD | | | | | | | |
| G10 | 44 | C42 | | | NSD | | | | | | | |
| G10 | 45 | E41 | | | NSD | | | | | | | |
| G10 | 46 | E42 | | | NSD | | | | | | | |
| G10 | 47 | F41 | | | NSD | | | | | | | |
| G10 | 48 | F42 | | | NSD | | | | | | | |
| G10 | 49 | G41 | | | NSD | | | | | | | |
| G10 | 50 | G42 | | | NSD | | | | | | | |
| G10 | 51 | H41 | | | NSD | | | | | | | |
| G10 | 52 | H42 | | | NSD | | | | | | | |
| G10 | 53 | K41 | | | NSD | | | | | | | |
| G10 | 54 | B43 | | | NSD | | | | | | | |
| G10 | 55 | B44 | | | NSD | | | | | | | |
| G10 | 56 | C43 | | | NSD | | | | | | | |
| G10 | 57 | C44 | | | NSD | | | | | | | |
| G10 | 58 | E43 | | | NSD | | | | | | | |
| G10 | 59 | E44 | | | NSD | | | | | | | |
| G10 | 60 | F43 | | | NSD | | | | | | | _ |
| G10 | 61 | F44 | | | NSD | | | | | | | |
| G10 | 62 | G43 | | | NSD | | | | | | | |
| G10 | 63 | G44 | | | NSD | | | | | | | |
| G10 | 64 | H43 | | | NSD | | | | | | | |
| G10 | 65 | H44 | | | NSD | | | | | | | |
| G10 | 66 | K43 | | | NSD | | | | | | | |
| G10 | 67 | B51 | | | NSD | | | | | | | |
| G10 | 68 | B52 | | | NSD | | | | | | | |
| G10 | 69 | C51 | | | NSD | | | | | | | |
| G11 | 70 | C31 | | | NSD | | | | | | | |
| G11 | 71 | C32 | | | NSD | | | | | | | |
| G11 | 72 | E31 | | | NSD | | | | | | | |
| G11 | 73 | E32 | | | NSD | | | | | | | |
| G11 | 74 | F31 | | | NSD | | | | | | | _ |
| G11 | 75 | F32 | | | NSD | | | | | | | |
| G11 | 76 | H31 | | | NSD | | | | | | | |
| G11 | 77 | H32 | | | NSD | | | | | | | |
| G11 | 78 | C34 | | | NSD | | | | | | | |
| G11 | 79 | E33 | | | NSD | | | | | | | |
| G11 | 80 | E34 | | | NSD | | | | | | | |
| G11 | 81 | F33 | | | NSD | | | | | | | |
| G11 | 82 | F34 | | | NSD | | | | | | | |
| - | | | | | | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210914R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/16/2021

| | ט | escriptio | n: | | | | | | | | | |
|-----|-----|-----------|----|--------|----------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim T | ot Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G11 | 83 | G33 | | | NSD | | | | | | | |
| G11 | 84 | H34 | | | NSD | | | | | | | |
| G12 | 85 | B34 | | | NSD | | | | | | | |
| G12 | 86 | C33 | | | NSD | | | | | | | |
| G12 | 87 | C34 | | | NSD | | | | | | | |
| G12 | 88 | E33 | | | NSD | | | | | | | |
| G12 | 89 | E34 | | | NSD | | | | | | | |
| G12 | 90 | F33 | | | NSD | | | | | | | |
| G12 | 91 | F34 | | | NSD | | | | | | | |
| G12 | 92 | G33 | | | NSD | | | | | | | |
| G12 | 93 | G34 | | | NSD | | | | | | | |
| G12 | 94 | H33 | | | NSD | | | | | | | |
| G12 | 95 | H34 | | | NSD | | | | | | | |
| G12 | 96 | K33 | | | NSD | | | | | | | |
| G12 | 97 | K34 | | | NSD | | | | | | | |
| G12 | 98 | B42 | | | NSD | | | | | | | |
| G12 | 99 | C41 | | | NSD | | | | | | | |
| G12 | 100 | C42 | | | NSD | | | | | | | |
| G12 | 101 | E41 | | | NSD | | | | | | | |
| G12 | 102 | E42 | | | NSD | | | | | | | |
| G12 | 103 | F41 | | | NSD | | | | | | | |
| G12 | 104 | F42 | | | NSD | | | | | | | |
| G12 | 105 | G41 | | | NSD | | | | | | | |
| G12 | 106 | G42 | | | NSD | | | | | | | |
| G12 | 107 | H41 | | | NSD | | | | | | | |
| G12 | 108 | H42 | | | NSD | | | | | | | |
| G12 | 109 | K41 | | | NSD | | | | | | | |
| G12 | 110 | K42 | | | NSD | | | | | | | |
| G12 | 111 | B43 | | | NSD | | | | | | | |
| G12 | 112 | B44 | | | NSD | | | | | | | |
| G12 | 113 | C43 | | | NSD | | | | | | | |
| G12 | 114 | C44 | | | NSD | | | | | | | |
| G12 | 115 | E43 | | | NSD | | | | | | | |
| G12 | 116 | E44 | | | NSD | | | | | | | |
| G12 | 117 | F43 | | | NSD | | | | | | | |
| G12 | 118 | F44 | | | NSD | | | | | | | |
| G12 | 119 | G43 | | | NSD | | | | | | | |
| G12 | 120 | G44 | | | NSD | | | | | | | |
| G12 | 121 | B52 | | | NSD | | | | | | | |
| G12 | 122 | C51 | | | NSD | | | | | | | |
| G12 | | C52 | | | NSD | | | | | | | |
| | | | | | | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210914R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/16/2021

| | D | escription | : | | | | | | | | | |
|-----|-----|------------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G12 | 124 | E51 | | | NSD | | | | | | | |
| G12 | 125 | E52 | | | NSD | | | | | | | |
| G12 | 126 | F51 | | | NSD | | | | | | | |
| G12 | 127 | F52 | | | NSD | | | | | | | |
| G12 | 128 | G51 | | | NSD | | | | | | | |
| G12 | 129 | B54 | | | NSD | | | | | | | |
| G12 | 130 | C53 | | | NSD | | | | | | | |
| G12 | 131 | C54 | | | NSD | | | | | | | |
| G12 | 132 | E53 | | | NSD | | | | | | | |
| G12 | 133 | E54 | | | NSD | | | | | | | |
| G12 | 134 | F53 | | | NSD | | | | | | | |
| G12 | 135 | F54 | | | NSD | | | | | | | |
| G12 | 136 | C61 | | | NSD | | | | | | | |
| G12 | 137 | C62 | | | NSD | | | | | | | |
| G12 | 138 | E61 | | | NSD | | | | | | | |
| G12 | 139 | E62 | | | NSD | | | | | | | |
| G12 | 140 | F61 | | | NSD | | | | | | | |
| G12 | 141 | F62 | | | NSD | | | | | | | |
| G13 | 142 | C24 | | | NSD | | | | | | | |
| G13 | 143 | E23 | | | NSD | | | | | | | |
| G13 | 144 | E24 | | | NSD | | | | | | | |
| G13 | 145 | F23 | | | NSD | | | | | | | |
| G13 | 146 | F24 | | | NSD | | | | | | | |
| G13 | 147 | G23 | | | NSD | | | | | | | |
| G13 | 148 | G24 | | | NSD | | | | | | | |
| G13 | 149 | H23 | | | NSD | | | | | | | |
| G13 | 150 | H24 | | | NSD | | | | | | | |
| G13 | 151 | K23 | | | NSD | | | | | | | |
| G13 | 152 | B32 | | | NSD | | | | | | | |
| G13 | 153 | C31 | | | NSD | | | | | | | |
| G13 | 154 | C32 | | | NSD | | | | | | | |
| G13 | 155 | E31 | | | NSD | | | | | | | |
| G13 | 156 | E32 | | | NSD | | | | | | | |
| G13 | 157 | F32 | | | NSD | | | | | | | |
| G13 | 158 | B34 | | | NSD | | | | | | | |
| G13 | 159 | C33 | | | NSD | | | | | | | |
| G13 | 160 | C34 | | | NSD | | | | | | | |
| G13 | 161 | E33 | | | NSD | | | | | | | |
| G13 | 162 | E34 | | | NSD | | | | | | | |
| G13 | 163 | F33 | | | NSD | | | | | | | |
| G13 | 164 | F34 | | | NSD | | | | | | | |
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|-----|-----|------------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G13 | 165 | G33 | | | NSD | | | | | | | |
| G13 | 166 | B42 | | | NSD | | | | | | | |
| G13 | 167 | C41 | | | NSD | | | | | | | |
| G13 | 168 | C42 | | | NSD | | | | | | | |
| G13 | 169 | E41 | | | NSD | | | | | | | |
| G13 | 170 | E42 | | | NSD | | | | | | | |
| G13 | 171 | F41 | | | NSD | | | | | | | |
| G13 | 172 | F42 | | | NSD | | | | | | | |
| G13 | 173 | G41 | | | NSD | | | | | | | |
| G13 | 174 | C44 | | | NSD | | | | | | | |
| G13 | 175 | E43 | | | NSD | | | | | | | |
| G13 | 176 | E44 | | | NSD | | | | | | | |
| G13 | 177 | F43 | | | NSD | | | | | | | |
| G13 | 178 | F44 | | | NSD | | | | | | | |
| G13 | 179 | G43 | | | NSD | | | | | | | |
| G13 | 180 | G44 | | | NSD | | | | | | | |
| G13 | 181 | C51 | | | NSD | | | | | | | |
| G13 | 182 | C52 | | | NSD | | | | | | | |
| G13 | 183 | E51 | | | NSD | | | | | | | |
| G13 | 184 | E52 | | | NSD | | | | | | | |
| G13 | 185 | F51 | | | NSD | | | | | | | |
| G13 | 186 | F52 | | | NSD | | | | | | | |
| G13 | 187 | G51 | | | NSD | | | | | | | |
| G13 | 188 | G52 | | | NSD | | | | | | | |
| G13 | 189 | C53 | | | NSD | | | | | | | |
| G13 | 190 | C54 | | | NSD | | | | | | | |
| G13 | 191 | E53 | | | NSD | | | | | | | |
| G13 | 192 | E54 | | | NSD | | | | | | | |
| G13 | 193 | F54 | | | NSD | | | | | | | |
| G13 | 194 | G53 | | | NSD | | | | | | | |
| G13 | 195 | G54 | | | NSD | | | | | | | |
| G13 | 196 | H53 | | | NSD | | | | | | | |
| G14 | 197 | C22 | | | NSD | | | | | | | |
| G14 | 198 | E21 | | | NSD | | | | | | | |
| G14 | 199 | E22 | | | NSD | | | | | | | |
| G14 | 200 | F21 | | | NSD | | | | | | | |
| G14 | 201 | F22 | | | NSD | | | | | | | |
| G14 | 202 | G21 | | | NSD | | | | | | | |
| G14 | 203 | G22 | | | NSD | | | | | | | |
| G14 | 204 | H21 | | | NSD | | | | | | | |
| G14 | 205 | B24 | | | NSD | | | | | | | |
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|-----|-----|------------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G14 | 206 | C23 | | | NSD | | | | | | | |
| G14 | 207 | C24 | | | NSD | | | | | | | |
| G14 | 208 | E23 | | | NSD | | | | | | | |
| G14 | 209 | E24 | | | NSD | | | | | | | |
| G14 | 210 | F23 | | | NSD | | | | | | | |
| G14 | 211 | F24 | | | NSD | | | | | | | |
| G14 | 212 | G23 | | | NSD | | | | | | | |
| G14 | 213 | G24 | | | NSD | | | | | | | |
| G14 | 214 | H23 | | | NSD | | | | | | | |
| G14 | 215 | H24 | | | NSD | | | | | | | |
| G14 | 216 | B31 | | | NSD | | | | | | | |
| G14 | 217 | B32 | | | NSD | | | | | | | |
| G14 | 218 | C31 | | | NSD | | | | | | | |
| G14 | 219 | C32 | | | NSD | | | | | | | |
| G14 | 220 | E31 | | | NSD | | | | | | | |
| G14 | 221 | E32 | | | NSD | | | | | | | |
| G14 | 222 | F31 | | | NSD | | | | | | | |
| G14 | 223 | F32 | | | NSD | | | | | | | |
| G14 | 224 | G31 | | | NSD | | | | | | | |
| G14 | 225 | G32 | | | NSD | | | | | | | |
| G14 | 226 | H31 | | | NSD | | | | | | | |
| G14 | 227 | B33 | | | NSD | | | | | | | |
| G14 | 228 | B34 | | | NSD | | | | | | | |
| G14 | 229 | C33 | | | NSD | | | | | | | |
| G14 | 230 | C34 | | | NSD | | | | | | | |
| G14 | 231 | E33 | | | NSD | | | | | | | |
| G14 | 232 | E34 | | | NSD | | | | | | | |
| G14 | 233 | F33 | | | NSD | | | | | | | |
| G14 | 234 | F34 | | | NSD | | | | | | | |
| G14 | 235 | B41 | | | NSD | | | | | | | |
| G14 | 236 | B42 | | | NSD | | | | | | | |
| G14 | 237 | C41 | | | NSD | | | | | | | |
| G14 | 238 | C42 | | | NSD | | | | | | | |
| G14 | 239 | E41 | | | NSD | | | | | | | |
| G14 | 240 | E42 | | | NSD | | | | | | | |
| G14 | 241 | F41 | | | NSD | | | | | | | |
| G14 | 242 | F42 | | | NSD | | | | | | | |
| G14 | 243 | G41 | | | NSD | | | | | | | |
| G14 | 244 | G42 | | | NSD | | | | | | | |
| G14 | 245 | H41 | | | NSD | | | | | | | |
| G14 | 246 | H42 | | | NSD | | | | | | | |
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| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G14 | 247 | K41 | | | NSD | | | | | | | |
| G14 | 248 | K42 | | | NSD | | | | | | | |
| G14 | 249 | B43 | | | NSD | | | | | | | |
| G14 | 250 | B44 | | | NSD | | | | | | | |
| G14 | 251 | C43 | | | NSD | | | | | | | |
| G14 | 252 | C44 | | | NSD | | | | | | | |
| G14 | 253 | E43 | | | NSD | | | | | | | |
| G14 | 254 | E44 | | | NSD | | | | | | | |
| G14 | 255 | F43 | | | NSD | | | | | | | |
| G14 | 256 | F44 | | | NSD | | | | | | | |
| G14 | 257 | G43 | | | NSD | | | | | | | |
| G14 | 258 | G44 | | | NSD | | | | | | | |
| G14 | 259 | H43 | | | NSD | | | | | | | |
| G14 | 260 | H44 | | | NSD | | | | | | | |
| G14 | 261 | K43 | | | NSD | | | | | | | |
| G14 | 262 | K44 | | | NSD | | | | | | | |
| G14 | 263 | B51 | | | NSD | | | | | | | |
| G14 | 264 | B52 | | | NSD | | | | | | | |
| G14 | 265 | C51 | | | NSD | | | | | | | |
| G14 | 266 | E52 | | | NSD | | | | | | | |
| G14 | 267 | F51 | | | NSD | | | | | | | |
| G14 | 268 | F52 | | | NSD | | | | | | | |
| G14 | 269 | G51 | | | NSD | | | | | | | |
| G14 | 270 | H51 | | | NSD | | | | | | | |
| G14 | 271 | H52 | | | NSD | | | | | | | |
| G14 | 272 | K51 | | | NSD | | | | | | | |
| G14 | 273 | K52 | | | NSD | | | | | | | |
| G14 | 274 | F53 | | | NSD | | | | | | | |
| G14 | 275 | F54 | | | NSD | | | | | | | |
| G14 | 276 | G53 | | | NSD | | | | | | | |
| G14 | 277 | H54 | | | NSD | | | | | | | |
| G14 | 278 | E61 | | | NSD | | | | | | | |
| G14 | 279 | E62 | | | NSD | | | | | | | |
| G14 | 280 | F61 | | | NSD | | | | | | | |
| G14 | 281 | F62 | | | NSD | | | | | | | |
| G14 | 282 | G61 | | | NSD | | | | | | | |
| G14 | 283 | G62 | | | NSD | | | | | | | |
| G14 | 284 | H61 | | | NSD | | | | | | | |
| G14 | 285 | H62 | | | NSD | | | | | | | |
| G31 | 286 | C61 | | | NSD | | | | | | | |
| G31 | 287 | C62 | | | NSD | | | | | | | |
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|-----|-----|------------|----|----------|-------|--------|-------|--------|--------------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G31 | 288 | E61 | | | NSD | | | | | | | |
| G31 | 289 | E62 | | | NSD | | | | | | | |
| G31 | 290 | F61 | | | NSD | | | | | | | |
| G31 | 291 | F62 | | | NSD | | | | | | | |
| G31 | 292 | G61 | | | NSD | | | | | | | |
| G31 | 293 | G62 | | | NSD | | | | | | | |
| G31 | 294 | H61 | | | NSD | | | | | | | |
| G31 | 295 | B54 | | | NSD | | | | | | | |
| G31 | 296 | C53 | | | NSD | | | | | | | |
| G31 | 297 | C54 | | | NSD | | | | | | | |
| G31 | 298 | E53 | | | NSD | | | | | | | |
| G31 | 299 | E54 | | | NSD | | | | | | | |
| G31 | 300 | F53 | | | NSD | | | | | | | |
| G31 | 301 | F54 | | | NSD | | | | | | | |
| G31 | 302 | G53 | | | NSD | | | | | | | |
| G31 | 303 | G54 | | | NSD | | | | | | | |
| G31 | 304 | H53 | | | NSD | | | | | | | |
| G31 | 305 | H54 | | | NSD | | | | | | | |
| G31 | 306 | B52 | | | NSD | | | | | | | |
| G31 | 307 | C51 | | | NSD | | | | | | | |
| G31 | 308 | C52 | | | NSD | | | | | | | |
| G31 | 309 | E51 | | | NSD | | | | | | | |
| G31 | 310 | E52 | | | NSD | | | | | | | |
| G31 | 311 | F51 | | | NSD | | | | | | | |
| G31 | 312 | F52 | | | NSD | | | | | | | |
| G31 | 313 | G51 | | | NSD | | | | | | | |
| G31 | 314 | G52 | | | NSD | | | | | | | |
| G31 | 315 | H51 | | | NSD | | | | | | | |
| G31 | 316 | H52 | | | NSD | | | | | | | |
| G31 | 317 | K51 | | | NSD | | | | | | | |
| G31 | 318 | C44 | | | NSD | | | | | | | |
| G31 | 319 | E43 | | | NSD | | | | | | | |
| G31 | 320 | E44 | | | NSD | | | | | | | |
| G31 | 321 | F43 | | | NSD | | | | | | | |
| G31 | 322 | G43 | | | NSD | | | | | | | |
| G31 | 323 | G44 | | | NSD | | | | | | | |
| G31 | 324 | H43 | | | NSD | | | | | | | |
| G31 | 325 | H44 | | | NSD | | | | | | | |
| G31 | 326 | K43 | | | NSD | | | | | | | |
| G31 | 327 | H42 | | | NSD | | | | | | | |
| G31 | 328 | K41 | | | NSD | | | | | | | |
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|-----|-----|------------|----|----------|---------|--------|-------|--------|--------------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim Tot | t Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G32 | 329 | C24 | | | NSD | | | | | | | |
| G32 | 330 | E23 | | | NSD | | | | | | | |
| G32 | 331 | E24 | | | NSD | | | | | | | |
| G32 | 332 | F23 | | | NSD | | | | | | | |
| G32 | 333 | F24 | | | NSD | | | | | | | |
| G32 | 334 | G23 | | | NSD | | | | | | | |
| G32 | 335 | G24 | | | NSD | | | | | | | |
| G32 | 336 | H23 | | | NSD | | | | | | | |
| G33 | 337 | E22 | | | NSD | | | | | | | |
| G33 | 338 | F22 | | | NSD | | | | | | | |
| G33 | 339 | C23 | | | NSD | | | | | | | |
| G33 | 340 | C24 | | | NSD | | | | | | | |
| G33 | 341 | E23 | | | NSD | | | | | | | |
| G34 | 342 | C22 | | | NSD | | | | | | | |
| G34 | 343 | E21 | | | NSD | | | | | | | |
| G34 | 344 | E22 | | | NSD | | | | | | | |
| G34 | 345 | F21 | | | NSD | | | | | | | |
| G34 | 346 | F22 | | | NSD | | | | | | | |
| G34 | 347 | G21 | | | NSD | | | | | | | |
| G34 | 348 | G22 | | | NSD | | | | | | | |
| G34 | 349 | C23 | | | NSD | | | | | | | |
| G34 | 350 | E24 | | | NSD | | | | | | | |
| G34 | 351 | F23 | | | NSD | | | | | | | |
| G34 | 352 | F24 | | | NSD | | | | | | | |
| G34 | 353 | G23 | | | NSD | | | | | | | |
| G34 | 354 | G24 | | | NSD | | | | | | | |
| G34 | 355 | H23 | | | NSD | | | | | | | |
| G34 | 356 | B31 | | | NSD | | | | | | | |
| G34 | 357 | B32 | | | NSD | | | | | | | |
| G34 | 358 | C31 | | | NSD | | | | | | | |
| G34 | 359 | C32 | | | NSD | | | | | | | |
| G34 | 360 | E31 | | | NSD | | | | | | | |
| G34 | 361 | E32 | | | NSD | | | | | | | |
| G34 | 362 | F31 | | | NSD | | | | | | | |
| G34 | 363 | F32 | | | NSD | | | | | | | |
| G34 | 364 | G32 | | | NSD | | | | | | | |
| G34 | 365 | H31 | | | NSD | | | | | | | |
| G34 | 366 | H32 | | | NSD | | | | | | | |
| G34 | 367 | B33 | | | NSD | | | | | | | |
| G34 | 368 | B34 | | | NSD | | | | | | | |
| G34 | 369 | C33 | | | NSD | | | | | | | |
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|-----|-----|------------|----|---------|---------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim To | t Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G34 | 370 | C34 | | | NSD | | | | | | | |
| G34 | 371 | E33 | | | NSD | | | | | | | |
| G34 | 372 | E34 | | | NSD | | | | | | | |
| G34 | 373 | F33 | | | NSD | | | | | | | |
| G34 | 374 | F34 | | | NSD | | | | | | | |
| G34 | 375 | G33 | | | NSD | | | | | | | |
| G34 | 376 | G34 | | | NSD | | | | | | | |
| G34 | 377 | H33 | | | NSD | | | | | | | |
| G34 | 378 | B41 | | | NSD | | | | | | | |
| G34 | 379 | B42 | | | NSD | | | | | | | |
| G34 | 380 | C41 | | | NSD | | | | | | | |
| G34 | 381 | C42 | | | NSD | | | | | | | |
| G34 | 382 | E41 | | | NSD | | | | | | | |
| G34 | 383 | E42 | | | NSD | | | | | | | |
| G34 | 384 | F41 | | | NSD | | | | | | | |
| G34 | 385 | F42 | | | NSD | | | | | | | |
| G34 | 386 | G41 | | | NSD | | | | | | | |
| G34 | 387 | G42 | | | NSD | | | | | | | |
| G34 | 388 | B43 | | | NSD | | | | | | | |
| G34 | 389 | B44 | | | NSD | | | | | | | |
| G34 | 390 | F43 | | | NSD | | | | | | | |
| G34 | 391 | F44 | | | NSD | | | | | | | |
| G34 | 392 | G43 | | | NSD | | | | | | | |
| G34 | 393 | H43 | | | NSD | | | | | | | |
| G34 | 394 | C51 | | | NSD | | | | | | | |
| G34 | 395 | C52 | | | NSD | | | | | | | |
| G34 | 396 | E51 | | | NSD | | | | | | | |
| G34 | 397 | B54 | | | NSD | | | | | | | |
| G34 | 398 | C53 | | | NSD | | | | | | | |
| G34 | 399 | C54 | | | NSD | | | | | | | |
| G34 | 400 | E53 | | | NSD | | | | | | | |
| G34 | 401 | E54 | | | NSD | | | | | | | |
| G34 | 402 | F53 | | | NSD | | | | | | | |
| G34 | 403 | C61 | | | NSD | | | | | | | |
| G34 | 404 | C62 | | | NSD | | | | | | | |
| G35 | 405 | E21 | | | NSD | | | | | | | |
| G35 | 406 | E22 | | | NSD | | | | | | | |
| G35 | 407 | F21 | | | NSD | | | | | | | |
| G35 | 408 | F22 | | | NSD | | | | | | | |
| G35 | 409 | G21 | | | NSD | | | | | | | |
| G35 | 410 | G22 | | | NSD | | | | | | | |
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| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G35 | 411 | H21 | | | NSD | | | | | | | |
| G35 | 412 | H22 | | | NSD | | | | | | | |
| G35 | 413 | C23 | | | NSD | | | | | | | |
| G35 | 414 | C24 | | | NSD | | | | | | | |
| G35 | 415 | E23 | | | NSD | | | | | | | |
| G35 | 416 | E24 | | | NSD | | | | | | | |
| G35 | 417 | F23 | | | NSD | | | | | | | |
| G35 | 418 | F24 | | | NSD | | | | | | | |
| G35 | 419 | G23 | | | NSD | | | | | | | |
| G35 | 420 | H23 | | | NSD | | | | | | | |
| G35 | 421 | H24 | | | NSD | | | | | | | |
| G35 | 422 | K23 | | | NSD | | | | | | | |
| G35 | 423 | C31 | | | NSD | | | | | | | |
| G35 | 424 | E32 | | | NSD | | | | | | | |
| G35 | 425 | F31 | | | NSD | | | | | | | |
| G35 | 426 | F32 | | | NSD | | | | | | | |
| G35 | 427 | G31 | | | NSD | | | | | | | |
| G35 | 428 | G32 | | | NSD | | | | | | | |
| G35 | 429 | H31 | | | NSD | | | | | | | |
| G35 | 430 | H32 | | | NSD | | | | | | | |
| G35 | 431 | K31 | | | NSD | | | | | | | |
| G35 | 432 | K32 | | | NSD | | | | | | | |
| G35 | 433 | F33 | | | NSD | | | | | | | |
| G35 | 434 | F34 | | | NSD | | | | | | | |
| G35 | 435 | G34 | | | NSD | | | | | | | |
| G35 | 436 | H33 | | | NSD | | | | | | | |
| G35 | 437 | H34 | | | NSD | | | | | | | |
| G35 | 438 | K34 | | | NSD | | | | | | | |
| G35 | 439 | F42 | | | NSD | | | | | | | |
| G35 | 440 | H42 | | | NSD | | | | | | | |
| G35 | 441 | K41 | | | NSD | | | | | | | |
| G35 | 442 | F43 | | | NSD | | | | | | | |
| G35 | 443 | F44 | | | NSD | | | | | | | |
| G35 | 444 | K44 | | | NSD | | | | | | | |
| G35 | 445 | F51 | | | NSD | | | | | | | |
| G35 | 446 | F52 | | | NSD | | | | | | | |
| G36 | 447 | B24 | | | NSD | | | | | | | |
| G36 | 448 | C23 | | | NSD | | | | | | | |
| G36 | 449 | C24 | | | NSD | | | | | | | |
| G36 | 450 | E23 | | | NSD | | | | | | | |
| G36 | 451 | E24 | | | NSD | | | | | | | |
| | | | | | | | | | | | | |

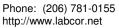


ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210914R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/16/2021

| | | escriptio | ,,,, | | | | | | | | | |
|-----|-----|-----------|------|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G36 | 452 | F23 | | | NSD | | | | | | | |
| G36 | 453 | F24 | | | NSD | | | | | | | |
| G36 | 454 | G23 | | | NSD | | | | | | | |
| G36 | 455 | G24 | | | NSD | | | | | | | |
| G36 | 456 | B32 | | | NSD | | | | | | | |
| G36 | 457 | C31 | | | NSD | | | | | | | |
| G36 | 458 | C32 | | | NSD | | | | | | | |
| G36 | 459 | E31 | | | NSD | | | | | | | |
| G36 | 460 | E32 | | | NSD | | | | | | | |
| G36 | 461 | F32 | | | NSD | | | | | | | |
| G36 | 462 | G31 | | | NSD | | | | | | | |
| G36 | 463 | G32 | | | NSD | | | | | | | |
| G36 | 464 | B33 | | | NSD | | | | | | | |
| G36 | 465 | B34 | | | NSD | | | | | | | |
| G36 | 466 | C33 | | | NSD | | | | | | | |
| G36 | 467 | C34 | | | NSD | | | | | | | |
| G36 | 468 | E33 | | | NSD | | | | | | | |
| G36 | 469 | E34 | | | NSD | | | | | | | |
| G36 | 470 | F33 | | | NSD | | | | | | | |
| G36 | 471 | F34 | | | NSD | | | | | | | |
| G36 | 472 | G33 | | | NSD | | | | | | | |
| G36 | 473 | G34 | | | NSD | | | | | | | |
| G36 | 474 | B41 | | | NSD | | | | | | | |
| G36 | 475 | B42 | | | NSD | | | | | | | |
| G36 | 476 | C41 | | | NSD | | | | | | | |
| G36 | 477 | C42 | | | NSD | | | | | | | |
| G36 | 478 | E41 | | | NSD | | | | | | | |
| G36 | 479 | E42 | | | NSD | | | | | | | |
| G36 | 480 | F41 | | | NSD | | | | | | | |
| G36 | 481 | F42 | | | NSD | | | | | | | |
| G36 | 482 | G41 | | | NSD | | | | | | | |
| G36 | 483 | G42 | | | NSD | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210914R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/16/2021

Lab/Cor Sample No: S5 Client Sample No: MV530 Description:

| Gr | No. | Loc. | ID Pr | im Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------|--------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G7 | 1 | E34 | | | NSD | | | | | | | |
| G7 | 2 | F33 | | | NSD | | | | | | | |
| G7 | 3 | F42 | | | NSD | | | | | | | |
| G7 | 4 | G44 | | | NSD | | | | | | | |
| G8 | 5 | F33 | | | NSD | | | | | | | |
| G8 | 6 | G42 | | | NSD | | | | | | | |

Lab/Cor Sample No: S6
Client Sample No: MV531

Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | C33 | | | NSD | | | | | | | |
| G4 | 2 | E41 | | | NSD | | | | | | | |
| G5 | 3 | F44 | | | NSD | | | | | | | |
| G5 | 4 | G51 | | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210914R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/16/2021

| | L | Descript | ion: | | | | | | | | | | |
|----|-----|----------|------|--------|------------------|--------|-----------------|--------|------------|----------|---------|--------|------------------------------|
| Gr | No. | Loc. | ID | Prim T | ot Class | Length | Width | Aspect | Analyte | Elements | Comr | ment | Count Categories |
| G4 | 1 | C31 | CDQ | 1 | Matrix 1-0 | 3.6 | 0.7 | 5.1 | Chrysotile | Mg, Si | | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | ItemT Spect | | ItemNu J6602 | | | Confirm | | Commer | |
| | | | | | Diffra Bright | ction | J6602 | 4DF | | | 17/2021 | 0.53nm | ROW SPACING - very faint |
| G4 | 1 | C31 | CD | 2 | Matrix 15-5 | 13.5 | 9.5 | 1.4 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| | | | | | ItemT | уре | ItemNu | ım | | Confirr | med | Commer | |
| | | | | | Diffra | | J6602 | | | KM 9/ | 17/2021 | 0.53nm | ROW SPACING |
| | | | | | Bright | Tiela | J6602 | OBF | | | | | |
| G4 | 1 | C31 | CD | 3 | Bundle | 10.2 | 1.1 | 9.3 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G4 | 2 | C32 | CD | 4 | Matrix 1-0 | 4.8 | 3.5 | 1.4 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | C32 | CD | 5 | Fiber | 1.3 | 0.08 | 16.2 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | C32 | CD | 6 | Fiber | 8.0 | 0.08 | 10 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | C32 | CD | 7 | Fiber | 1.7 | 0.05 | 34 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | C32 | СМ | 8 | Fiber | 2.1 | 0.05 | 42 | Chrysotile | 1 | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 3 | E31 | СМ | 9 | Matrix 1-0 | 6.5 | 2.8 | 2.3 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G4 | 3 | E31 | CD | 10 | Bundle | 1.7 | 0.15 | 11.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 3 | E31 | СМ | 11 | Fiber | 8.0 | 0.08 | 10 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 3 | E31 | СМ | 12 | Bundle | 1.35 | 0.17 | 7.9 | Chrysotile | 1 | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 4 | E34 | CM | 13 | Fiber | 0.7 | 0.08 | 8.8 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 4 | E34 | CD | 14 | Fiber | 0.85 | 0.03 | 28.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 5 | F33 | CD | 15 | Matrix 1-0 | 2 | 0.7 | 2.9 | Chrysotile | ! | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 5 | F33 | СМ | 16 | Fiber | 2.1 | 0.07 | 30 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 6 | E33 | CD | 17 | Matrix 1-0 | 3.8 | 0.3 | 12.7 | Chrysotile | 1 | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 6 | E33 | CD | 18 | Bundle | 2.5 | 0.4 | 6.2 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 6 | E33 | CD | 19 | Bundle | 3.25 | 0.4 | 8.1 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 6 | E33 | СМ | 20 | Matrix 1-0 | 3.5 | 2.5 | 1.4 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 7 | E34 | СМ | 21 | Matrix 2-0 | 1.8 | 1.2 | 1.5 | Chrysotile | 1 | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 7 | E34 | CM | 22 | Fiber | 0.9 | 0.07 | 12.9 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 7 | E34 | CM | 23 | Bundle | 4.35 | 0.25 | 17.4 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 7 | E34 | CM | 24 | Matrix 2-0 | 5.1 | 4 | 1.3 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G5 | 7 | E34 | CD | 25 | Fiber | 0.6 | 0.07 | 8.6 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210914R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/16/2021

Lab/Cor Sample No: S7 Client Sample No: MV532 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|--------|--------|-------|--------|------------|----------|---------|------------------------------|
| G5 | 8 | F33 | CD | 26 | Fiber | 1.8 | 0.1 | 18 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 8 | F33 | CM | 27 | Fiber | 1.3 | 0.07 | 18.6 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 8 | F33 | CM | 28 | Fiber | 0.7 | 0.03 | 23.3 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 9 | F42 | СМ | 29 | Fiber | 0.65 | 0.11 | 5.9 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 9 | F42 | CM | 30 | Fiber | 0.67 | 0.02 | 33.5 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 9 | F42 | CD | 31 | Bundle | 1.2 | 0.12 | 10 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 9 | F42 | CM | 32 | Fiber | 3.2 | 0.08 | 40 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 9 | F42 | CM | 33 | Fiber | 1.4 | 0.1 | 14 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 9 | F42 | CM | 34 | Fiber | 8.0 | 0.07 | 11.4 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 10 | G41 | CM | 35 | Fiber | 0.9 | 0.07 | 12.9 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 10 | G41 | CM | 36 | Fiber | 4 | 0.05 | 80 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 10 | G41 | СМ | 37 | Fiber | 1.7 | 0.1 | 17 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |

| Gr | No. | Loc. | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Element | s Comi | ment | Count Categories |
|----|-----|------|-----|------|-----|------------|---------|--------|--------|------------|---------|-----------|----------|------------------------------|
| G4 | 1 | C33 | CDQ | 1 | | Fiber | 0.67 | 0.07 | 9.6 | Chrysotile | Mg, S | Si | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | | Item | Туре | ItemNu | ım | | Coi | nfirmed | Comment | |
| | | | | | | Spe | ctra | J6602 | 7SP | | KM | 9/17/2021 | | |
| | | | | | | Diffr | raction | J6602 | 7DF | | KM | 9/17/2021 | 0.53nm R | OW SPACING |
| | | | | | | Brig | htfield | J6602 | 7BF | | | | | |
| G4 | 1 | C33 | CD | 2 | | Fiber | 1.7 | 0.05 | 34 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | C34 | СМ | 3 | | Fiber | 1.7 | 0.08 | 21.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 3 | E33 | | | | NSD | | | | | | | | |
| G4 | 4 | E34 | | | | NSD | | | | | | | | |
| G4 | 5 | B41 | CD | 4 | | Matrix 1-0 | 1.2 | 0.6 | 2 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 5 | B41 | CD | 5 | | Fiber | 2.1 | 0.07 | 30 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 6 | E53 | | | | NSD | | | | | | | | |
| G5 | 7 | E52 | СМ | 6 | | Fiber | 0.7 | 0.08 | 8.8 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 8 | F51 | | | | NSD | | | | | | | | |
| G5 | 9 | F44 | CD | 7 | | Fiber | 1.2 | 0.05 | 24 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 10 | G43 | СМ | 8 | | Fiber | 0.85 | 0.07 | 12.1 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210914R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/16/2021

| | | escript | | | | | | | | | | | |
|----|-----|---------|-----|------|-------------|---------------------------|------------------|--------|------------|------------------|-----|-----------|------------------------------|
| Gr | No. | Loc. | ID | Prim | Tot Class | Length | Width | Aspect | Analyte | Elements | Com | ment | Count Categories |
| G4 | 1 | C54 | CDQ | 1 | Fiber | 1.1 | 0.07 | 15.7 | Chrysotile | Mg, Si | | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | Item | Туре | ItemNu | ım | | Confirn | | Comment | |
| | | | | | | ctra action htfield | J66028 J66028 | BDF | | KM 9/1 KM 9/1 | | 0.53nm R0 | OW SPACING |
| G4 | 1 | C54 | CD | 2 | Bundle | 2.8 | 0.15 | 18.7 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | E53 | | | NSD | | | | | | | | |
| G4 | 3 | E52 | CD | 3 | Fiber | 0.85 | 0.08 | 10.6 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 3 | E52 | CD | 4 | Bundle | 1.7 | 0.11 | 15.5 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 4 | F51 | CD | 5 | Matrix 2-0 | 3.1 | 2 | 1.5 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 4 | F51 | CD | 6 | Fiber | 0.75 | 0.1 | 7.5 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 5 | F44 | CD | 7 | Bundle | 2 | 0.15 | 13.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 5 | F44 | CD | 8 | Matrix 1-0 | 2.5 | 8.0 | 3.1 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 5 | F44 | СМ | 9 | Fiber | 1.8 | 0.08 | 22.5 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 6 | G43 | CD | 10 | Fiber | 1.7 | 0.08 | 21.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 6 | G43 | СМ | 11 | Fiber | 4.1 | 0.03 | 136.7 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 6 | G43 | CD | 12 | Bundle | 1.85 | 0.13 | 14.2 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 6 | G43 | СМ | 13 | Fiber | 0.7 | 0.05 | 14 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 6 | G43 | CD | 14 | Bundle | 2.75 | 0.18 | 15.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 7 | E44 | CD | 15 | Bundle | 1.2 | 0.17 | 7.1 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 7 | E44 | СМ | 16 | Fiber | 0.7 | 0.11 | 6.4 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 8 | F43 | СМ | 17 | Matrix 1-0 | 3.1 | 2.5 | 1.2 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 8 | F43 | СМ | 18 | Matrix 1-0 | 0.88 | 0.3 | 2.9 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 8 | F43 | CD | 19 | Fiber | 0.7 | 0.1 | 7 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 9 | F52 | СМ | 20 | Matrix 2-0 | 4.2 | 3.8 | 1.1 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 9 | F52 | CD | 21 | Cluster 3-0 | 2.5 | 1.5 | 1.7 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 9 | F52 | CD | 22 | Matrix 1-0 | 3.2 | 0.8 | 4 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 10 | G51 | CD | 23 | Bundle | 1.2 | 0.2 | 6 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210914R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/16/2021

| Gr | No. | Loc. | ID | Prim | Tot Class | Length | Width | Aspect | Analyte | Elements | Comr | ment | Count Categories |
|----|-----|------|-----|------|-------------|------------------------------|----------------|--------|------------|------------------|------|----------|------------------------------|
| G4 | 1 | F42 | CDQ | 1 | Fiber | 0.7 | 0.07 | 10 | Chrysotile | Mg, Si | | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | Iten | пТуре | ItemNu | ım | | Confirm | ed | Comment | |
| | | | | | Diff | ectra raction ghtfield | J6602 J6602 | 9DF | | KM 9/1 KM 9/1 | | 0.53nm R | OW SPACING |
| G4 | 1 | F42 | CD | 2 | Bundle | 0.85 | 0.11 | 7.7 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 1 | F42 | CM | 3 | Fiber | 0.65 | 0.05 | 13 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 1 | F42 | CD | 4 | Matrix 1-0 | 2.5 | 0.5 | 5 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CD | 5 | Fiber | 1.6 | 0.05 | 32 | Chrysotile | 1 | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CD | 6 | Fiber | 8.0 | 0.05 | 16 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CD | 7 | Matrix 3-0 | 2 | 1.1 | 1.8 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CD | 8 | Fiber | 8.2 | 0.06 | 136.7 | Chrysotile | | | | ASTM_Total, ASTM_>=5.0 |
| G4 | 2 | G41 | CM | 9 | Fiber | 2 | 0.06 | 33.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CM | 10 | Matrix 1-0 | 8.0 | 0.3 | 2.7 | Chrysotile | l. | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 3 | G34 | CD | 11 | Matrix 1-0 | 1.6 | 0.25 | 6.4 | Chrysotile | 1 | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 4 | H33 | СМ | 12 | Fiber | 4.1 | 0.05 | 82 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 4 | H33 | CD | 13 | Bundle | 37.5 | 1.3 | 28.8 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G4 | 4 | H33 | СМ | 14 | Fiber | 0.7 | 0.08 | 8.8 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 4 | H33 | CD | 15 | Matrix 1-0 | 3.2 | 1.5 | 2.1 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 5 | G32 | CD | 16 | Fiber | 1.1 | 0.05 | 22 | Chrysotile | 1 | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 5 | G32 | CD | 17 | Matrix 1-0 | 7.5 | 4 | 1.9 | Chrysotile | | | | ASTM_Total, ASTM_>=5.0 |
| G4 | 6 | H31 | СМ | 18 | Matrix 1-0 | 4 | 1.2 | 3.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 6 | H31 | СМ | 19 | Fiber | 0.51 | 0.05 | 10.2 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 7 | C54 | СМ | 20 | Fiber | 1.6 | 0.07 | 22.9 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 7 | C54 | СМ | 21 | Fiber | 1.2 | 0.05 | 24 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 8 | E53 | СМ | 22 | Matrix 1-0 | 5.7 | 5.1 | 1.1 | Chrysotile | | | | ASTM_Total, ASTM_>=5.0 |
| G5 | 9 | E52 | CD | 23 | Bundle | 1.1 | 0.15 | 7.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 10 | F51 | СМ | 24 | Matrix 1-0 | 1.1 | 0.2 | 5.5 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 10 | F51 | СМ | 25 | Cluster 4-0 | 3.2 | 0.75 | 4.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210914R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/16/2021

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comn | nent | Count Categories |
|----|-----|------|-----|----------|--------|----------|--------|--------|------------|----------|---------|--------|------------------------------|
| G7 | 1 | F32 | | | NSD | | | | | | | | |
| G7 | 2 | G43 | | | NSD | | | | | | | | |
| G8 | 3 | F34 | CDQ | 1 | Fiber | 1.2 | 0.08 | 15 | Chrysotile | Mg, Si | | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | Item | туре | ItemNu | m | | Confirm | ned | Comme | nt |
| | | | | | Spe | ectra | J66030 |)SP | | KM 9/ | 17/2021 | | |
| | | | | | Diff | raction | J66030 |)DF | | KM 9/ | 17/2021 | 0.53nm | ROW SPACING |
| | | | | | Brig | ghtfield | J66030 |)BF | | | | | |
| G8 | 4 | G41 | CD | 2 | Bundle | 1.2 | 0.13 | 9.2 | Chrysotile | | | | ASTM_Total, ASTM_0.5- |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210914R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/16/2021

| | L | Descript | ion: | | | | | | | | | | |
|----|-----|----------|------|------|------------|----------------|----------------|--------|------------|------------------|--------|------------|------------------------------|
| Gr | No. | Loc. | ID | Prim | Tot Class | Length | Width | Aspect | Analyte | Elements | Comn | nent | Count Categories |
| G4 | 1 | F34 | СМ | 1 | Fiber | 2 | 0.02 | 100 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 1 | F34 | CDQ | 2 | Matrix 3-0 | 6 | 4 | 1.5 | Chrysotile | Mg, Si | | | ASTM_>=5.0, ASTM_Total |
| | | | | | Item7 | | ItemNu | | | Confirm | | Comment | İ |
| | | | | | Spec | ctra action | J6603 J6603 | | | KM 9/1 KM 9/1 | | 0 53nm F | ROW SPACING |
| | | | | | | ntfield | J6603 | | | TOTAL S/ I | 1/2021 | 0.55111111 | IOW OF AOING |
| G4 | 1 | F34 | СМ | 3 | Fiber | 1.2 | 0.05 | 24 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 1 | F34 | CD | 4 | Matrix 1-1 | 9.5 | 8.2 | 1.2 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G4 | 1 | F34 | CM | 5 | Matrix 1-0 | 5.2 | 4 | 1.3 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G4 | 1 | F34 | CM | 6 | Fiber | 1.7 | 0.05 | 34 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 1 | F34 | CM | 7 | Fiber | 8.0 | 0.06 | 13.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 1 | F34 | CD | 8 | Fiber | 1.8 | 0.12 | 15 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 1 | F34 | CM | 9 | Fiber | 2.8 | 0.1 | 28 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CD | 10 | Fiber | 0.85 | 0.08 | 10.6 | Chrysotile | 1 | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CM | 11 | Fiber | 1.2 | 0.11 | 10.9 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CM | 12 | Fiber | 8.0 | 0.1 | 8 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CM | 13 | Fiber | 1.2 | 0.08 | 15 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CM | 14 | Fiber | 1.5 | 0.1 | 15 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CM | 15 | Fiber | 0.7 | 0.05 | 14 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CD | 16 | Fiber | 1.8 | 0.1 | 18 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CD | 17 | Bundle | 4 | 0.12 | 33.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G4 | 2 | G41 | CD | 18 | Bundle | 5.1 | 0.85 | 6 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G4 | 2 | G41 | CM | 19 | Fiber | 1.5 | 0.1 | 15 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 3 | F34 | CD | 20 | Fiber | 5.45 | 0.07 | 77.9 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G5 | 3 | F34 | CM | 21 | Fiber | 3.1 | 0.08 | 38.8 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 3 | F34 | CD | 22 | Matrix 3-3 | 32.2 | 4.5 | 7.2 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G5 | 3 | F34 | CD | 23 | Fiber | 3.2 | 0.1 | 32 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 3 | F34 | CD | 24 | Fiber | 2.2 | 0.11 | 20 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 4 | G41 | CM | 25 | Fiber | 0.65 | 0.07 | 9.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 4 | G41 | CM | 26 | Fiber | 8.0 | 0.08 | 10 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 4 | G41 | CM | 27 | Fiber | 2.1 | 0.1 | 21 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210914 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210914R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/16/2021

Lab/Cor Sample No: S12 Client Sample No: MV537 Description:

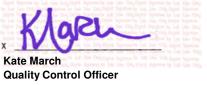
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte Element | s Comment | Count Categories |
|----|-----|------|----|----------|------------|--------|-------|--------|-----------------|-----------|------------------------------|
| G5 | 4 | G41 | CM | 28 | Matrix 1-0 | 0.95 | 0.4 | 2.4 | Chrysotile | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 4 | G41 | CM | 29 | Fiber | 1.2 | 0.08 | 15 | Chrysotile | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 4 | G41 | CM | 30 | Fiber | 1.7 | 0.1 | 17 | Chrysotile | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 4 | G41 | СМ | 31 | Fiber | 1.5 | 0.1 | 15 | Chrysotile | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 4 | G41 | СМ | 32 | Matrix 2-0 | 6.85 | 2.7 | 2.5 | Chrysotile | | ASTM_>=5.0, ASTM_Total |
| G5 | 4 | G41 | CD | 33 | Fiber | 0.55 | 0.08 | 6.9 | Chrysotile | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 4 | G41 | CM | 34 | Fiber | 0.7 | 0.07 | 10 | Chrysotile | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 4 | G41 | CM | 35 | Fiber | 1.35 | 0.05 | 27 | Chrysotile | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 4 | G41 | CM | 36 | Fiber | 1.2 | 0.07 | 17.1 | Chrysotile | | ASTM_Total, ASTM_0.5- 5.0 |

Lab/Cor Sample No: S13 Client Sample No: MV538 Description:

| Gr | No. | Loc. | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Elements | Comi | ment | Count Categories |
|-------|--------|------|----------|----------|-----|------------|-----------|--------|------------|----------------|----------|-----------|-----------|------------------------------|
| G1 | 1 | C61 | CDQ | 1 | | Fiber | 3.7 | 0.06 | 61.7 | Chrysotile | Mg, S | i | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | | Item | Туре | ItemNu | ım | | Conf | firmed | Comment | |
| | | | | | | Spe | ctra | J6603 | 2SP | | KM | 9/17/2021 | | |
| | | | | | | Diffr | action | J6603 | 2DF | | KM | 9/17/2021 | 0.53nm R | OW SPACING |
| | | | | | | Brig | htfield | J6603 | 2BF | | | | | |
| G1 | 2 | C62 | | | | NSD | | | | | | | | |
| G1 | 3 | E61 | CD | 2 | | Fiber | 0.95 | 0.1 | 9.5 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G1 | 4 | E54 | | | | NSD | | | | | | | | |
| G1 | 5 | F53 | CMQ | 3 | | Matrix 1-0 | 3.3 | 0.7 | 4.7 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G1 | 6 | F52 | | | | NSD | | | | | | | | |
| G2 | 7 | C34 | | | | NSD | | | | | | | | |
| G2 | 8 | E33 | | | | NSD | | | | | | | | |
| G2 | 9 | E42 | | | | NSD | | | | | | | | |
| G2 | 10 | F41 | | | | NSD | | | | | | | | |
| Count | Catego | ries | | | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM | Asbestos | s >=5.0µ | ım | AST | M_0.5-5.0 | ASTM A | sbestos >= | -0.5μm - <5.0μ | m AST | M_Total | ASTM Tota | ll Asbestos >=0.5μm |

Reviewed by:

ASTMD_Other ASTM Libby-Other >0.5µm





MV538

210 414 LABORATORY CHAIN OF CUSTODY

| Project: | Pierce College Olym | pic South Abatement and Repairs | Project #: 40535.488 | _ |
|--|---|---|--|--------|
| Analysis re | quested: ASTM m | nicrovac dust sample | Date: 9/16/2021 | _ |
| | /Signature: <u>Toan I</u> | in Ann | Date/Time: 9/16/2021 | = 1-1 |
| Received b | y/Signature: | 370 | Date/Time: 4/10/2 | 1 17) |
| | | Email ALL INVOICES to: seattleap@pbs | usa.com | |
| E-mail result Brian Sta Willem N Gregg M Mark Hil Tim Ogo TURN AROL 1 Hour 2 Hours 4 Hours | nford Aager Iiddaugh ey Ien | ☐ Prudy Stoudt-McRae ☐ Janet Murphy ☐ Kaitlin Soukup ☐ Claire Tsai ☐ Holly Tuttle ☐ 24 Hours ☐ 48 Hours | Mike Smith Ferman Fletcher Ryan Hunter Michelle Dodson 3 Days Other | |
| | LOD <1000 | SAMPLE DATA FORM | | |
| Sample # | Material | Location | | Lab |
| MV526 | Dust - 100cm2 area | Rm. 320 Transformer base | | Labcor |
| MV527 | Dust - 100cm2 area | Rm. 320 Inside electrical panel H7RA | | |
| MV528 | Dust - 100cm2 area | Rm. 320 inside LVP – 1 | | |
| MV529 | Dust - 100cm2 area | Rm. 321 Fire Alarm Pull – Box base | | |
| MV530 | Dust - 100cm2 area | Rm. 321 Security Pull Box base | | |
| MV531 | Dust - 100cm2 area | Rm. 321 Superterm box #13 base | | |
| MV532 | Dust - 100cm2 area | Mech. 173 – Fire alarm box base | | |
| MV533 | Dust - 100cm2 area | Mech. 173 – ADM. Box base | | |
| MV534 | Dust - 100cm2 area | Mech. 173 – H7LA Disconnect box base | | |
| MV535 | Dust - 100cm2 area | Mech. 173 – Panel F5LX base | | |
| MV536 | Dust - 100cm2 area | Mech. 173 – HVAC control box base | | |
| MV537 | Dust - 100cm2 area | Mech. 173 – Fire alarm main panel inside | | |
| MV538 | Dust - 100cm2 area | Mech. 173 – F5RA base | | 11/ |



ASTM D 5755-09 - Microvac Final Report

Job Number: 210933 Report Number: 210933R01 Report Date: 9/23/2021

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample # Client Sample # and Description

Analysis

Analysis Notes

Date Received:

9/20/2021

210933 - S1

MV539 -

ASTM D 5755-09 - Microvac This sample was ashed and hydrolyzed prior to filtration to remove as much background interference as possible.

This was done to improve the sensitivity.

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15.000 - 20.000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Sierra Hinkle

Technician/Analyst



ASTM D 5755-09 - Microvac Final Report

Job Number: 210933 SEA Report Number: 210933R01
Client: PBS Engineering + Environmental Date Received: 9/20/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV539 Lab Filter Area (mm2): 289.38

Description:Grid Openings Analyzed: 6Filter Fraction: 1Aliquot Dilution: 0.025Average Grid Opening Area: 0.012Residual Ash Vol: 20 mlFinal Dilution: 0.00125Area Analyzed (mm2): 0.072

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 32153.333 Volume Taken: 0.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/23/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|-----------------------------------|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 2604420 | 2068359.627 - 3237197.6 - Poisson | 81 | |
| ASTM Asbestos >=5.0μm | 803833.333 | 520176.627 - 1186618.767 - Poisson | 25 | |
| ASTM Libby-Other >0.5μm | < 32153.333 | 0 - 118613.647 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5µm | 3408253.333 | 2790394.88 - 4123021.933 - Poisson | 106 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Sierra Hinkle

Technician/Analyst



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210933 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210933R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Project No.: 40535.488

| Comment Count Categories ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_Total ASTM_>=5.0, ASTM_Total ASTM_Total ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_Total ASTM_Total ASTM_Total |
|--|
| ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_>=5.0, ASTM_Total ASTM_>=5.0, ASTM_Total ASTM_0.5-5.0, |
| ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_>=5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total |
| ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_>=5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_0.5-5.0, ASTM_0.5-5.0, |
| ASTM_0.5-5.0, |
| ASTM_>=5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, |
| ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, |
| ASTM_Total ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, |
| ASTM_0.5-5.0, ASTM_Total ASTM_0.5-5.0, |
| ASTM_0.5-5.0, |
| 7.6 |
| ASTM_0.5-5.0, ASTM_Total |
| ASTM_1.5-5.0, ASTM_Total |
| ASTM_15.15.10, ASTM_Total |
| ASTM_rotal ASTM_>=5.0, ASTM_Total |
| ASTM_15.15.10, ASTM_Total |
| ASTM_1.5-5.0, ASTM_Total |
| ASTM_>=5.0, ASTM_Total |
| ASTM_0.5-5.0, ASTM_Total |
| ASTM_10.5-5.0, ASTM_Total |
| ASTM_0.5-5.0, |
| ASTM_Total d Comment |
| 2021 0.53nm ROW SPACING 2021 |
| ASTM_0.5-5.0, ASTM_Total |
| ASTM_0.5-5.0, ASTM_Total |
| ASTM_Total ASTM_0.5-5.0, ASTM_Total |
| ASTM_Total ASTM_>=5.0, ASTM_Total |
| ASTM_0.5-5.0, |
| ASTM_Total ASTM_0.5-5.0, |
| ASTM_Total ASTM_>=5.0, |
| ASTM_Total ASTM_0.5-5.0, ASTM Total |
| |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210933 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210933R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

| | ı | Descripti | on: | | | | | | | | | |
|----|-----|-----------|-----|------|----------|----------|---------|--------|------------|----------|---------|-----------------------------|
| Gr | No. | Loc. | ID | Prim | Tot Clas | s Lengtl | n Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G7 | 2 | E51 | СМ | 28 | Matrix | 1-0 1 | 0.4 | 2.5 | Chrysotile | ! | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 2 | E51 | СМ | 29 | Matrix | 1-0 3 | 1 | 3 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 2 | E51 | CD | 30 | Matrix | 1-0 3 | 2.5 | 1.2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 2 | E51 | СМ | 31 | Matrix | 1-0 1.5 | 5 0.8 | 1.9 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |
| G7 | 2 | E51 | CM | 32 | Fibe | r 1.3 | 0.08 | 16.2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 2 | E51 | CM | 33 | Matrix | 1-1 6.5 | 5 1 | 6.5 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G7 | 2 | E51 | CQ | 34 | Fibe | r 9 | 0.08 | 112.5 | Chrysotile | Mg, Si | | ASTM_>=5.0, ASTM_Total |
| G7 | 3 | E52 | CM | 35 | Fibe | r 2.5 | 0.08 | 31.2 | Chrysotile | ! | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 3 | E52 | CM | 36 | Fibe | r 2.7 | 0.09 | 30 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 3 | E52 | CM | 37 | Matrix | 1-0 2.5 | 0.08 | 31.2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 3 | E52 | CM | 38 | Matrix | 1-0 4.8 | 3 2 | 2.4 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 3 | E52 | CM | 39 | Matrix | 1-0 2.5 | 5 2.5 | 1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 3 | E52 | СМ | 40 | Fibe | r 4.2 | 2 0.07 | 60 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 3 | E52 | СМ | 41 | Fibe | r 3.5 | 0.1 | 35 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 3 | E52 | СМ | 42 | Matrix | 1-0 3.5 | 0.6 | 5.8 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 3 | E52 | СМ | 43 | Matrix | 1-0 1.5 | 5 1 | 1.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 3 | E52 | CM | 44 | Fibe | r 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 3 | E52 | CQ | 45 | Bunc | le 3 | 0.2 | 15 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 3 | E52 | СМ | 46 | Fibe | r 1.5 | 0.08 | 18.8 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 3 | E52 | СМ | 47 | Matrix | 2-0 13 | 10 | 1.3 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G7 | 3 | E52 | CM | 48 | Bunc | le 2.5 | 0.6 | 4.2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 4 | C43 | CM | 49 | Fibe | r 1.5 | 0.07 | 21.4 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 4 | C43 | CM | 50 | Matrix | 1-0 5.3 | 3 2.5 | 2.1 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 4 | C43 | CM | 51 | Fibe | r 0.7 | 7 0.08 | 8.8 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 4 | C43 | CQ | 52 | Matrix | 2-0 8 | 5 | 1.6 | Chrysotile | Mg, Si | | ASTM_>=5.0, ASTM_Total |
| G8 | 4 | C43 | CM | 53 | Matrix | 1-0 2.2 | 2.2 | 1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 4 | C43 | CM | 54 | Matrix | 3-0 10. | 3 5 | 2.1 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 4 | C43 | CM | 55 | Matrix | 1-0 2.2 | 2 1.5 | 1.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 4 | C43 | CM | 56 | Fibe | r 1.5 | 0.1 | 15 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 4 | C43 | CM | 57 | Matrix | 1-0 3.2 | 0.6 | 5.3 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210933 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210933R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/20/2021

| | | Descripti | ion: | | | | | | | | | |
|----|-----|-----------|------|----------|------------|--------|-------|--------|------------|----------|---------|---|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G8 | 4 | C43 | CM | 58 | Matrix 1-0 | 4.5 | 2.8 | 1.6 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 4 | C43 | СМ | 59 | Matrix 1-0 | 1.5 | 1.5 | 1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 4 | C43 | CM | 60 | Matrix 1-0 | 7 | 3.5 | 2 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 4 | C43 | СМ | 61 | Matrix 1-0 | 2.5 | 2.5 | 1 | Chrysotile | | | ASTM_Total ASTM_0.5-5.0, ASTM Total |
| G8 | 4 | C43 | CQ | 62 | Bundle | 3 | 0.3 | 10 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 4 | C43 | CM | 63 | Fiber | 0.7 | 0.07 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 4 | C43 | CM | 64 | Matrix 1-0 | 1 | 1 | 1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 4 | C43 | CM | 65 | Fiber | 1.2 | 0.1 | 12 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 4 | C43 | СМ | 66 | Matrix 2-0 | 5 | 4 | 1.2 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 67 | Fiber | 0.7 | 0.07 | 10 | Chrysotile | ! | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 68 | Matrix 2-0 | 2.5 | 2.5 | 1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 5 | C44 | CM | 69 | Matrix 1-0 | 3.5 | 2 | 1.8 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 70 | Fiber | 0.7 | 0.07 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 71 | Matrix 1-0 | 5 | 2 | 2.5 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 72 | Fiber | 0.6 | 0.08 | 7.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 73 | Bundle | 4 | 2 | 2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 74 | Matrix 1-0 | 6 | 2 | 3 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 75 | Matrix 1-0 | 10 | 3 | 3.3 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 5 | C44 | CM | 76 | Matrix 1-0 | 3 | 0.6 | 5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 77 | Fiber | 4 | 0.07 | 57.1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 5 | C44 | CM | 78 | Matrix 1-0 | 1.5 | 1 | 1.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |
| G8 | 5 | C44 | СМ | 79 | Matrix 2-0 | 2.5 | 1.5 | 1.7 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 80 | Fiber | 2 | 0.08 | 25 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |
| G8 | 5 | C44 | СМ | 81 | Matrix 2-0 | 5 | 5 | 1 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 82 | Fiber | 2 | 0.08 | 25 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 83 | Matrix 1-0 | 5 | 3 | 1.7 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 5 | C44 | CM | 84 | Fiber | 0.6 | 0.1 | 6 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 5 | C44 | CM | 85 | Matrix 1-1 | 6 | 2 | 3 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 86 | Matrix 1-0 | 5 | 5 | 1 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 5 | C44 | СМ | 87 | Matrix 2-0 | 2.5 | 1.5 | 1.7 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210933 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210933R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Lab/Cor Sample No: S1 Client Sample No: MV539 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-------|---------|------|----------|------------|------------|-----------|--------|------------|-----------------|----------|-----------|-----------------------------|
| G8 | 5 | C44 | CM | 88 | Fiber | 1.2 | 0.1 | 12 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |
| G8 | 5 | C44 | CM | 89 | Fiber | 1.2 | 0.1 | 12 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 6 | C31 | СМ | 90 | Fiber | 2 | 0.07 | 28.6 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 6 | C31 | CM | 91 | Matrix 1-0 | 5 | 1 | 5 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 6 | C31 | CM | 92 | Matrix 1-0 | 10 | 7 | 1.4 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 6 | C31 | CQ | 93 | Matrix 2-0 | 10 | 7 | 1.4 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 6 | C31 | CM | 94 | Bundle | 2 | 0.12 | 16.7 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 6 | C31 | CM | 95 | Fiber | 0.6 | 0.08 | 7.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 6 | C31 | СМ | 96 | Fiber | 1.8 | 0.08 | 22.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 6 | C31 | СМ | 97 | Fiber | 1.3 | 0.11 | 11.8 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 6 | C31 | CM | 98 | Matrix 1-0 | 2.3 | 0.7 | 3.3 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 6 | C31 | CM | 99 | Bundle | 2.3 | 0.15 | 15.3 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 6 | C31 | CM | 100 | Matrix 1-0 | 1.2 | 0.6 | 2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 6 | C31 | CM | 101 | Matrix 1-0 | 2.5 | 1 | 2.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 6 | C31 | CM | 102 | Matrix 1-0 | 1.5 | 0.7 | 2.1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 6 | C31 | CM | 103 | Matrix 1-0 | 5 | 4 | 1.2 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G8 | 6 | C31 | CM | 104 | Fiber | 1 | 0.08 | 12.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 6 | C31 | CM | 105 | Matrix 1-0 | 2.5 | 2 | 1.2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 6 | C31 | CM | 106 | Matrix 1-1 | 5.3 | 1 | 5.3 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| Count | Catego | ries | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM | Asbestos | s >=5.0µm | ASTI | M_0.5-5.0 | ASTM A | sbestos >= | :0.5μm - <5.0μm | n ASTM_ | Total AST | M Total Asbestos >=0.5μm |
| ASTM | D_Other | ASTM | Libby-Ot | her >0.5µm | | | | | | | | |

Reviewed by:

Sierra Hinkle Technician/Analyst



LABORATORY CHAIN OF CUSTODY

| Project: | Pierce Colle | ge Olym | pic South Abatement and Repairs | Project #: <u>40535.488</u> | |
|--|--------------|--|-------------------------------------|--|--------------|
| Analysis re | quested: | | nicrovac dust sample | Date: 9/16/2021 | . |
| Reling'd by | y/Signature: | []ld | me Tour | Date/Time: 9/20/2021 | · |
| Received b | y/Signature | Š | <u> P</u> | Date/Time: 9 20121 | 1:24pn |
| | | | Email ALL INVOICES to: seattleap@pl | ' | |
| E-mail resul | ts to: | | | | |
| Brian Sta | anford | | Prudy Stoudt-McRae | Mike Smith | |
| Willem ! | Mager | | Janet Murphy | Ferman Fletcher | |
| 🔀 Gregg M | _ | | Kaitlin Soukup | Ryan Hunter | |
| Mark Hil | - | | Claire Tsai | Michelle Dodson | |
| ☐ Tim Ogd | ien | | ☐ Holly Tuttle | | |
| TURN AROL | IND TIME: | | | | |
| 1 Hour | | | 24 Hours | 3 Days | |
| 2 Hours | | | 48 Hours | Other | • |
| 4 Hours | | <1000 | | | |
| | | | SAMPLE DATA FORM | | |
| Sample # | Mate | ial | | n | Lab |
| MV539 | Dust - 100c | n2 area | Rm. 173 Transformer base | | Labcor |
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ASTM D 5755-09 - Microvac Final Report

Job Number: 210941 Report Number: 210941R01 Report Date: 9/24/2021

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Sample # | Client Sample # and Description | Analysis | Analysis Notes | Date Received: |
|------------------|---------------------------------|---------------------------|----------------|----------------|
| 210941 - S1 | MV540 - | ASTM D 5755-09 - Microvac | | 9/22/2021 |
| 210941 - S2 | MV541 - | ASTM D 5755-09 - Microvac | | 9/22/2021 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,



ASTM D 5755-09 - Microvac Final Report

Job Number: 210941 SEA Report Number: 210941R01
Client: PBS Engineering + Environmental Date Received: 9/22/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV540

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 803.833

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification SH 9/24/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV541

Description:

Filter Fraction: 1

Aliquot Dilution: 0.075

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048

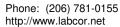
Begin Volume: 20 ml Analytical Sens. (struc/cm2): 803.833

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification
SH 9/24/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 1607.667 | 194.528 - 5807.696 - Poisson | 2 | |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5µm | 1607.667 | 194.528 - 5807.696 - Poisson | 2 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210941 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210941R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/22/2021

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV540 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|--------------|---------|----------|---------|------------------|
| G7 | 1 | E43 | | NSD | | | | | | |
| G7 | 2 | E44 | | NSD | | | | | | |
| G8 | 3 | E43 | | NSD | | | | | | |
| G8 | 4 | E44 | | NSD | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV541 Description:

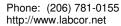
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Element | s Comi | ment | Count Categories |
|-------|------------------|------|----------|------------|------------|------------|--------|------------|-----------------|---------|-----------|------------|-----------------------------|
| G7 | 1 | G42 | CDQ | 1 | Fiber | 1.6 | 0.05 | 32 | Chrysotile | Mg, S | Si | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Ite | mType | ItemNu | ım | | Coi | nfirmed | Comment | |
| | | | | | Di | ffraction | F6606 | 8DF | | SH | 9/24/2021 | 0.53nm RO | W SPACING |
| | | | | | Sp | ectra | F6606 | 8SP | | SH | 9/24/2021 | | |
| | | | | | Br | ightfield | F6606 | 8BF | | | | | |
| G7 | 1 | G42 | CM | 2 | Matrix 1-0 | 0.8 | 0.2 | 4 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 2 | H41 | | | NSD | | | | | | | | |
| G8 | 3 | F33 | | | NSD | | | | | | | | |
| G8 | 4 | F34 | | | NSD | | | | | | | | |
| Count | Count Categories | | | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM | Asbestos | s >=5.0μm | AS | TM_0.5-5.0 | ASTM A | sbestos >= | :0.5μm - <5.0μr | m AS | TM_Total | ASTM Total | Asbestos >=0.5μm |
| ASTM | D_Other | ASTM | Libby-Ot | ner >0.5µm | | | | | | | | | |

Reviewed by:



LABORATORY CHAIN OF CUSTODY

| Project: | Pierce College Olym | pic South Abatement and Repairs | Project #: 40535.488 | - | | |
|--------------|-------------------------|-------------------------------------|----------------------|--------|--|--|
| Analysis re | equested: <u>ASTM r</u> | nicrovac dust sample | Date: 9/21/2021 | | | |
| Reling'd b | y/Signature: | | Date/Time: 9/21/2021 | | | |
| Received b | oy/Signature: | | Date/Time: 9 22 21 | 8 au | | |
| Necested 2 | 0 | E | | | | |
| E-mail resul | ts to: | Email ALL INVOICES to: seattleap@p | bsusa.com | | | |
| Brian St | | Prudy Stoudt-McRae | Mike Smith | | | |
| Willem | | ☐ Janet Murphy | Ferman Fletcher | | | |
| ☐ Gregg N | Middaugh | ☐ Kaitlin Soukup | Ryan Hunter | | | |
| Mark Hi | 1 (5) | Claire Tsai | Michelle Dodson | | | |
| ☐ Tim Og | den | Holly Tuttle | | _ | | |
| TURN AROU | UND TIME: | | 2 | | | |
| 1 Hour | | 24 Hours | ☑ 3 Days | | | |
| 2 Hours | | 48 Hours | Other | - | | |
| 4 Hours | LOD <1000 | | | | | |
| | | SAMPLE DATA FORM | | | | |
| Sample # | Material | Locatio | on | Lab | | |
| MV540 | Dust - 100cm2 area | Rm. 173 Johnson Control FEC2611 - H | VAC control | Labcor | | |
| MV541 | Dust - 100cm2 area | Rm. 173. ABB HVAC unit | | | | |
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ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 Report Number: 210957R03 Report Date: 9/30/2021

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

R01: Preliminary Report

R02: Revised Preliminary Report

Report Note: R03 (this report): Final; Includes remaining analysis and extended analysis requested by Claire 9/30/21

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Sample # | Client Sample # and Description | Analysis | Analysis Notes | Date Received |
|------------------|---------------------------------|---------------------------|----------------------------------|---------------|
| 210957 - S1 | MV542 - | ASTM D 5755-09 - Microvac | A few Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S2 | MV543 - | ASTM D 5755-09 - Microvac | A few Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S3 | MV544 - | ASTM D 5755-09 - Microvac | | 9/27/2021 |
| 210957 - S4 | MV545 - | ASTM D 5755-09 - Microvac | | 9/27/2021 |
| 210957 - S5 | MV546 - | ASTM D 5755-09 - Microvac | | 9/27/2021 |
| 210957 - S6 | MV547 - | ASTM D 5755-09 - Microvac | A few Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S7 | MV548 - | ASTM D 5755-09 - Microvac | | 9/27/2021 |
| 210957 - S8 | MV549 - | ASTM D 5755-09 - Microvac | Many Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S9 | MV550 - | ASTM D 5755-09 - Microvac | | 9/27/2021 |
| 210957 - S10 | MV551 - | ASTM D 5755-09 - Microvac | Many Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S11 | MV552 - | ASTM D 5755-09 - Microvac | Many Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S12 | MV553 - | ASTM D 5755-09 - Microvac | | 9/27/2021 |
| 210957 - S13 | MV554 - | ASTM D 5755-09 - Microvac | | 9/27/2021 |
| 210957 - S14 | MV555 - | ASTM D 5755-09 - Microvac | A few Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S15 | MV556 - | ASTM D 5755-09 - Microvac | Some Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S16 | MV557 - | ASTM D 5755-09 - Microvac | A few Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S17 | MV558 - | ASTM D 5755-09 - Microvac | | 9/27/2021 |
| 210957 - S18 | MV559 - | ASTM D 5755-09 - Microvac | Many Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S19 | MV560 - | ASTM D 5755-09 - Microvac | | 9/27/2021 |
| 210957 - S20 | MV561 - | ASTM D 5755-09 - Microvac | Many Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S21 | MV562 - | ASTM D 5755-09 - Microvac | | 9/27/2021 |
| 210957 - S22 | MV563 - | ASTM D 5755-09 - Microvac | Many Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S23 | MV564 - | ASTM D 5755-09 - Microvac | Several Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S24 | MV565 - | ASTM D 5755-09 - Microvac | | 9/27/2021 |
| 210957 - S25 | MV566 - | ASTM D 5755-09 - Microvac | Many Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S26 | MV567 - | ASTM D 5755-09 - Microvac | | 9/27/2021 |
| 210957 - S27 | MV568 - | ASTM D 5755-09 - Microvac | Many Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S28 | MV569 - | ASTM D 5755-09 - Microvac | | 9/27/2021 |
| 210957 - S29 | MV570 - | ASTM D 5755-09 - Microvac | Some Mg-Al-Si fibers present. | 9/27/2021 |
| 210957 - S30 | MV571 - | | Some Mg, Al, Si Fibers Present | 9/27/2021 |
| 210957 - S31 | MV572 - | ASTM D 5755-09 - Microvac | - | 9/27/2021 |
| 210957 - S32 | MV573 - | | Many Mg, Al, Si Fibers Present | 9/27/2021 |
| 210957 - S33 | MV574 - | | Some Mg, Al, Si Fibers Present | 9/27/2021 |
| | | | <u> </u> | 9/27/2021 |



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 Report Number: 210957R03 Client: PBS Engineering + Environmental Report Date: 9/30/2021

Project Name: Pierce College Olympic South Abatement and Repairs

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15.000 - 20.000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Sierra Hinkle

Technician/Analyst



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV542

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048
Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/28/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 12 | |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 1 | |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 | |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 13 | |
| Chrysotile Structures | NA | Not Applicable | 12 | |
| Actinolite Structures | NA | Not Applicable | 1 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV543

Description:

Filter Fraction: 1

Aliquot Dilution: 0.075

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification
SH 9/28/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 13 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 10 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 23 |
| Chrysotile Structures | NA | Not Applicable | 23 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



Analytical Sens. (struc/cm2): 0

ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV544

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048
Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/28/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 1 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 1 |
| Chrysotile Structures | NA | Not Applicable | 1 |
| Actinolite Structures | NA | Not Applicable | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4

Client Sample No.: MV545

Sample Area/Mass/Volume (cm²): 0

Lab Filter Area (mm²): 289.38

Description: Grid Openings Analyzed: 10
Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml

Volume Taken: 1.5 ml

 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 SH
 9/28/2021
 Hitachi 7000FA
 20000

 SH
 9/30/2021
 Hitachi 7000FA
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S5 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV546

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/28/2021Hitachi 7000FA20000SH9/30/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5µm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: \$6Sample Area/Mass/Volume (cm²): 0Client Sample No.: MV547Lab Filter Area (mm2): 289.38Description:Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.5 ml

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 6 |
| ASTM Asbestos >=5.0µm | NA | Not Applicable | 3 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 9 |
| Chrysotile Structures | NA | Not Applicable | 9 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S7 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV548

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 SB
 9/29/2021
 JEOL-Sr 1200
 20000

 SH
 9/30/2021
 Hitachi 7000FA
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S8

Client Sample No.: MV549

Description:

Sample Area/Mass/Volume (cm²): 0

Lab Filter Area (mm²): 289.38

Grid Openings Analyzed: 10

Description: Grid Openings Analyzed: 10
Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.25 ml

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5µm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S9 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV550

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.5 ml

 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 SB
 9/29/2021
 JEOL-Sr 1200
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S10 Sample Area/Mass/Volume (cm²): 0
Client Sample No.: MV551 Lab Filter Area (mm²): 289.38

Description: Grid Openings Analyzed: 10
Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075

Regin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Analytical Sens. (struc/cm2): 0

Volume Taken: 0.25 ml

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S11 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV552

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.25 ml

Analyst(s)Analysis DateMicroscopeMagnificationSB9/29/2021JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S12 Sample Area/Mass/Volume (cm²): 0
Client Sample No.: MV553 Lab Filter Area (mm²): 289.38

Description: Grid Openings Analyzed: 10
Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S13 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV554

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 6

Filter Fraction: 1 Aliquot Dilution: 0.005 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.005 Area Analyzed (mm2): 0.072
Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.1 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/29/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 82 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 28 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 110 |
| Chrysotile Structures | NA | Not Applicable | 110 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S14 Sample Area/Mass/Volume (cm²): 0
Client Sample No.: MV555
Lab Filter Area (mm²): 289.38

Description: Grid Openings Analyzed: 10
Filter Fraction: 1 Aliquot Dilution: 0.0025 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.0025 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.05 ml

Analyst(s) Analysis Date Microscope Magnification
SH 9/29/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0µm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 1 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S15 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV556

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12
Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSB9/29/2021JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 5 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 1 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 6 |
| Chrysotile Structures | NA | Not Applicable | 6 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S16 Sample Area/Mass/Volume (cm²): 0
Client Sample No.: MV557 Lab Filter Area (mm²): 289.38

Description: Grid Openings Analyzed : 5

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.06

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1 ml

Analyst(s) Analysis Date Microscope Magnification
SH 9/29/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S17 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV558

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/29/2021Hitachi 7000FA20000SH9/30/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S18Sample Area/Mass/Volume (cm²): 0Client Sample No.: MV559Lab Filter Area (mm²): 289.38Description:Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.25 ml

Analyst(s) Analysis Date Microscope Magnification
HH 9/29/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S19 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV560

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/29/2021Hitachi 7000FA20000SH9/30/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S20

Client Sample No.: MV561

Description:

Sample Area/Mass/Volume (cm²): 0

Lab Filter Area (mm²): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.25 ml

Analyst(s) Analysis Date Microscope Magnification
SH 9/29/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Struct Cour Prim/T | nt¹ |
|--------------------------------|-----------------------------------|---|--------------------------|-----|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 11 | |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 10 | |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 | |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 21 | |
| Chrysotile Structures | NA | Not Applicable | 21 | |
| Actinolite Structures | NA | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S21 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV562

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 SH
 9/29/2021
 Hitachi 7000FA
 20000

 SH
 9/30/2021
 Hitachi 7000FA
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S22

Client Sample No.: MV563

Description:

Sample Area/Mass/Volume (cm²): 0

Lab Filter Area (mm²): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification
SH 9/29/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S23 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV564

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 5

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.06
Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/29/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 1 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 1 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5µm | NA | Not Applicable | 2 |
| Chrysotile Structures | NA | Not Applicable | 2 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S24 Sample Area/Mass/Volume (cm²): 0
Client Sample No.: MV565 Lab Filter Area (mm²): 289.38

Description: Grid Openings Analyzed: 10
Filter Fraction: 1 Aliquot Dilution: 0.0012 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.0012 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.025 ml

Analyst(s) Analysis Date Microscope Magnification
SH 9/30/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 2 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 11 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 13 |
| Chrysotile Structures | NA | Not Applicable | 13 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



Analytical Sens. (struc/cm2): 0

ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S25 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV566

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048
Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/29/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S26 Sample Area/Mass/Volume (cm²): 0
Client Sample No.: MV567 Lab Filter Area (mm²): 289.38

Description: Grid Openings Analyzed: 10
Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification
SH 9/29/2021 Hitachi 7000FA 20000
SH 9/30/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S27 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV568

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/30/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 1 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 1 |
| Chrysotile Structures | NA | Not Applicable | 1 |
| Actinolite Structures | NA | Not Applicable | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S28 Sample Area/Mass/Volume (cm²): 0
Client Sample No.: MV569 Lab Filter Area (mm²): 289.38

Description: Grid Openings Analyzed: 10
Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 1.5 ml

 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 SH
 9/30/2021
 Hitachi 7000FA
 20000

 SB
 9/30/2021
 JEOL-Sr 1200
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



Analytical Sens. (struc/cm2): 0

ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S29 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV570

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.0025 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.0025 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.05 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/30/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S30 Sample Area/Mass/Volume (cm²): 0
Client Sample No.: MV571 Lab Filter Area (mm²): 289.38

Description: Grid Openings Analyzed: 4
Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048

Volume Taken: 1.5 ml

Begin Volume: 20 ml

Analyst(s) Analysis Date Microscope Magnification
SB 9/30/2021 JEOL-Sr 1200 20000

Concen-95% Confidence Structure Structure tration Interval Count¹ Type (struc/cm2) Prim/Total (struc/cm2) ASTM Asbestos >=0.5µm - <5.0µm Not Applicable NA 0 NA ASTM Asbestos >=5.0µm Not Applicable 0 ASTM Libby-Other >0.5µm NΑ Not Applicable 0 ASTM Total Asbestos >=0.5µm NA Not Applicable 0 **Chrysotile Structures** NA Not Applicable 0 **Actinolite Structures** NA Not Applicable 0

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S31 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV572 Lab Filter Area (mm2): 289.38

Description: Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.0025 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.0025 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.05 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/30/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S32 Sample Area/Mass/Volume (cm²): 0
Client Sample No.: MV573 Lab Filter Area (mm²): 289.38

Description: Grid Openings Analyzed: 10
Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.5 ml

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



Analytical Sens. (struc/cm2): 0

ASTM D 5755-09 - Microvac Final Report

Job Number: 210957 SEA Report Number: 210957R03

Client: PBS Engineering + Environmental Date Received: 9/27/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S33 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV574

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.005 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.005 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 0

Volume Taken: 0.1 ml

Analyst(s)Analysis DateMicroscopeMagnificationSB9/30/2021JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S34

Client Sample No.: MV575

Sample Area/Mass/Volume (ml): 0

Lab Filter Area (mm2): 289.38

Description: Grid Openings Analyzed: 10
Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification
SB 9/30/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |
| Chrysotile Structures | NA | Not Applicable | 0 |
| Actinolite Structures | NA | Not Applicable | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210957R03

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/27/2021

Project No.: 40535.488

| | | escript | .0 | | | | | | | | | | |
|----|-----|---------|-----|----------|------------|---------|--------|--------|------------|----------|-----------|-----------|------------------------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comi | ment | Count Categories |
| G5 | 1 | E42 | CDQ | 1 | Matrix 3-0 | 2.05 | 0.47 | 4.4 | Chrysotile | Mg, S | i | | ASTM_Total, Chrys, ASTM_0.5-5.0 |
| | | | | | Item | Туре | ItemNu | ım | | Conf | irmed | Comment | |
| | | | | | Diffr | action | F6621 | BDF | | SH S | 9/28/2021 | 0.53nm R0 | OW SPACING |
| | | | | | Spe | ctra | F6621 | BSP | | SH S | 9/28/2021 | | |
| | | | | | Brig | htfield | F6621 | BBF | | | | | |
| G5 | 1 | E42 | СМ | 2 | Fiber | 0.7 | 0.1 | 7 | Chrysotile | | | | ASTM_Total, Chrys, ASTM_0.5-5.0 |
| G5 | 2 | F41 | CD | 3 | Matrix 1-0 | 2.5 | 0.25 | 10 | Chrysotile | | | | ASTM_Total, Chrys, ASTM_0.5-5.0 |
| G5 | 2 | F41 | ADQ | 4 | Fiber | 2.5 | 0.5 | 5 | Actinolite | | | | ASTM_Total, Actin, ASTM_0.5-5.0 |
| | | | | | Item | Туре | ItemNu | ım | | Conf | irmed | Comment | |
| | | | | | Diffr | action | F6621 | 9DF | | SH S | 9/28/2021 | 0.53nm R0 | OW SPACING |
| | | | | | Spe | ctra | F6621 | 9SP | | SH S | 9/28/2021 | | |
| | | | | | Brig | htfield | F6621 | 9BF | | | | | |
| G5 | 2 | F41 | CQ | 5 | Fiber | 4.5 | 0.08 | 56.2 | Chrysotile | Mg, S | i | | ASTM_Total, Chrys, ASTM_0.5-5.0 |
| G5 | 2 | F41 | СМ | 6 | Fiber | 2 | 0.08 | 25 | Chrysotile | | | | ASTM_Total, Chrys, ASTM_0.5-5.0 |
| G5 | 2 | F41 | СМ | 7 | Fiber | 1.3 | 0.07 | 18.6 | Chrysotile | | | | ASTM_Total, Chrys, ASTM_0.5-5.0 |
| G6 | 3 | F32 | СМ | 8 | Fiber | 1.3 | 0.08 | 16.2 | Chrysotile | | | | ASTM_Total, Chrys, ASTM_0.5-5.0 |
| G6 | 3 | F32 | CQ | 9 | Fiber | 1.3 | 0.1 | 13 | Chrysotile | Mg, S | i | | ASTM_Total, Chrys, ASTM_0.5-5.0 |
| G6 | 3 | F32 | CM | 10 | Fiber | 1.8 | 0.07 | 25.7 | Chrysotile | | | | ASTM_Total, Chrys, ASTM_0.5-5.0 |
| G6 | 3 | F32 | СМ | 11 | Matrix 3-0 | 4.5 | 3 | 1.5 | Chrysotile | | | | ASTM_Total, Chrys, ASTM_0.5-5.0 |
| G6 | 4 | G31 | СМ | 12 | Matrix 5-0 | 2.3 | 2 | 1.1 | Chrysotile | | | | ASTM_Total, Chrys, ASTM_0.5-5.0 |
| G6 | 4 | G31 | СМ | 13 | Bundle | 6.2 | 0.3 | 20.7 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total, Chrys |
| | | - | | | Item | Туре | ItemNu | ım | | Conf | irmed | Comment | |
| | | | | | Diffr | action | F6622 | DDF | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210957R03

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/27/2021

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements Cor | nment | Count Categories |
|----|-----|------|-----|----------|------------|---------------------------|-------------------------|--------|------------|--|--------|------------------------------------|
| G3 | 1 | F41 | CDQ | 1 | Fiber | 7.7 | 0.09 | 85.6 | Chrysotile | Mg, Si | | Chrys, ASTM_>=5.0, ASTM_Total |
| | | | | | | Туре | ItemNu | | | Confirmed | Commer | |
| | | | | | Spe | action ctra htfield | F6622 F6622 F6622 | 1SP | | SH 9/28/202 ⁻ SH 9/28/202 ⁻ | | ROW SPACING |
| G3 | 1 | F41 | CQ | 2 | Matrix 2-1 | 7 | 2.6 | 2.7 | Chrysotile | Mg, Si | | Chrys, ASTM_>=5.0, ASTM_Total |
| G3 | 1 | F41 | СМ | 3 | Fiber | 5.5 | 0.09 | 61.1 | Chrysotile | | | ASTM_>=5.0, Chrys, ASTM_Total |
| G3 | 1 | F41 | CQ | 4 | Fiber | 0.6 | 0.06 | 10 | Chrysotile | Mg, Si | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G3 | 1 | F41 | СМ | 5 | Fiber | 2.8 | 0.07 | 40 | Chrysotile | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G3 | 1 | F41 | СМ | 6 | Fiber | 0.8 | 0.1 | 8 | Chrysotile | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G3 | 1 | F41 | CQ | 7 | Matrix 1-0 | 7 | 6 | 1.2 | Chrysotile | G. | | ASTM_>=5.0, Chrys, ASTM_Total |
| G3 | 1 | F41 | СМ | 8 | Fiber | 2 | 0.09 | 22.2 | Chrysotile | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G3 | 1 | F41 | СМ | 9 | Matrix 1-0 | 9 | 6 | 1.5 | Chrysotile | | | ASTM_>=5.0, Chrys, ASTM_Total |
| G3 | 2 | F42 | СМ | 10 | Bundle | 6 | 0.3 | 20 | Chrysotile | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G3 | 2 | F42 | СМ | 11 | Fiber | 2.2 | 0.06 | 36.7 | Chrysotile | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G3 | 2 | F42 | СМ | 12 | Matrix 1-1 | 15 | 15 | 1 | Chrysotile | | | ASTM_>=5.0, Chrys, ASTM_Total |
| G3 | 2 | F42 | СМ | 13 | Fiber | 2.5 | 0.06 | 41.7 | Chrysotile | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G3 | 2 | F42 | СМ | 14 | Fiber | 1.3 | 0.08 | 16.2 | Chrysotile | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G3 | 2 | F42 | СМ | 15 | Fiber | 1 | 0.07 | 14.3 | Chrysotile | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G4 | 3 | C31 | СМ | 16 | Matrix 3-1 | 20 | 20 | 1 | Chrysotile | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G4 | 3 | C31 | СМ | 17 | Bundle | 1.2 | 0.2 | 6 | Chrysotile | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G4 | 3 | C31 | СМ | 18 | Matrix 1-0 | 12 | 6 | 2 | Chrysotile | | | ASTM_>=5.0, Chrys, ASTM_Total |
| G4 | 3 | C31 | CM | 19 | Fiber | 1.6 | 0.07 | 22.9 | Chrysotile | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G4 | 3 | C31 | СМ | 20 | Fiber | 2 | 0.08 | 25 | Chrysotile | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G4 | 3 | C31 | СМ | 21 | Matrix 1-0 | 1.8 | 0.4 | 4.5 | Chrysotile | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G4 | 3 | C31 | CM | 22 | Matrix 2-1 | 10 | 10 | 1 | Chrysotile | | | ASTM_>=5.0, Chrys, ASTM_Total |
| G4 | 4 | C32 | СМ | 23 | Fiber | 0.8 | 0.07 | 11.4 | Chrysotile | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210957R03Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/27/2021

Lab/Cor Sample No: S3 Client Sample No: MV544 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comr | ment | Count Categories |
|----|-----|------|-----|----------|-------|----------|--------|--------|------------|-----------|-----------|----------|------------------------------------|
| G3 | 1 | E42 | | | NSD | | | | | | | | |
| G3 | 2 | F41 | | | NSD | | | | | | | | |
| G4 | 3 | G41 | CDQ | 1 | Fiber | 1.73 | 0.08 | 21.6 | Chrysotile | Mg, Si, (| Ca | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| | | | | | Iter | nType | ItemNu | ım | | Conf | irmed | Comment | |
| | | | | | Dif | fraction | F6622 | 2DF | | SH 9 | 9/28/2021 | 0.53nm R | OW SPACING |
| | | | | | Sp | ectra | F6622 | 2SP | | SH S | 9/28/2021 | | |
| | | | | | Bri | ghtfield | F6622 | 2BF | | | | | |
| G4 | 4 | F42 | | | NSD | | | | | | | | |

Lab/Cor Sample No: S4 Client Sample No: MV545 Description:

| G3 1 E41 NSD G3 2 E42 NSD G4 3 F41 NSD G4 4 F42 NSD G3 5 G41 NSD G3 6 H31 NSD G3 7 H32 NSD G4 8 F51 NSD G4 9 F52 NSD | Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|---|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 3 F41 NSD G4 4 F42 NSD G3 5 G41 NSD G3 6 H31 NSD G3 7 H32 NSD G4 8 F51 NSD | G3 | 1 | E41 | | NSD | | | | | | | |
| G4 4 F42 NSD G3 5 G41 NSD G3 6 H31 NSD G3 7 H32 NSD G4 8 F51 NSD | G3 | 2 | E42 | | NSD | | | | | | | |
| G3 5 G41 NSD G3 6 H31 NSD G3 7 H32 NSD G4 8 F51 NSD | G4 | 3 | F41 | | NSD | | | | | | | |
| G3 6 H31 NSD G3 7 H32 NSD G4 8 F51 NSD | G4 | 4 | F42 | | NSD | | | | | | | |
| G3 7 H32 NSD G4 8 F51 NSD | G3 | 5 | G41 | | NSD | | | | | | | |
| G4 8 F51 NSD | G3 | 6 | H31 | | NSD | | | | | | | |
| | G3 | 7 | H32 | | NSD | | | | | | | |
| G4 9 F52 NSD | G4 | 8 | F51 | | NSD | | | | | | | |
| 5. 0 .02 | G4 | 9 | F52 | | NSD | | | | | | | |
| G4 10 G51 NSD | G4 | 10 | G51 | | NSD | | | | | | | |

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G3 | 1 | C42 | | NSD | | | | | | | |
| G3 | 2 | E41 | | NSD | | | | | | | |
| G4 | 3 | G41 | | NSD | | | | | | | |
| G4 | 4 | G42 | | NSD | | | | | | | |
| G3 | 5 | C43 | | NSD | | | | | | | |
| G3 | 6 | C44 | | NSD | | | | | | | |
| G3 | 7 | E43 | | NSD | | | | | | | |
| G4 | 8 | G44 | | NSD | | | | | | | |
| G4 | 9 | H43 | | NSD | | | | | | | |
| G4 | 10 | H44 | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210957R03

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/27/2021

Lab/Cor Sample No: S6 Client Sample No: MV547 Description:

| Gr | No. | Loc. | ID | Prim | Tot Cla | ass | Length | Width | Aspect | Analyte | Element | s Comi | ment | Count Categories |
|----|-----|------|-----|------|---------|---------|--------|--------|--------|------------|---------|-----------|-----------|------------------------------------|
| G1 | 1 | F44 | СМ | 1 | Fil | oer | 2 | 0.1 | 20 | Chrysotile | | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| | | | | | | ItemTy | /pe | ltemΝι | ım | | Co | nfirmed | Comment | |
| | | | | | | Bright | field | J6623 | OBF | | | | | |
| | | | | | | Diffrac | tion | J6623 | ODF | | SB | 9/29/2021 | 0.53nm RC | OW SPACING |
| | | | | | | Specti | ra | J6623 | OSP | | SB | 9/29/2021 | | |
| G1 | 2 | G43 | CDQ | 2 | Bur | ndle | 5.5 | 0.5 | 11 | Chrysotile | Mg, | Si | | Chrys, ASTM_>=5.0, ASTM_Total |
| G1 | 3 | H33 | СМ | 3 | Fil | oer | 2 | 0.1 | 20 | Chrysotile | | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G1 | 4 | H41 | СМ | 4 | Bur | ndle | 2.5 | 0.2 | 12.5 | Chrysotile | | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G1 | 4 | H41 | СМ | 5 | Fil | oer | 3 | 0.1 | 30 | Chrysotile | | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G1 | 5 | K41 | СМ | 6 | Fil | oer | 5.5 | 0.1 | 55 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G2 | 6 | E32 | | | NS | SD | | | | | | | | |
| G2 | 7 | F31 | | | NS | SD | | | | | | | | |
| G2 | 8 | F34 | | | NS | SD | | | | | | | | |
| G2 | 9 | G33 | CD | 7 | Fil | oer | 5 | 0.2 | 25 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G2 | 10 | E51 | CM | 8 | Fil | oer | 2.5 | 0.1 | 25 | Chrysotile | | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G2 | 10 | E51 | CM | 9 | Bur | ndle | 4.5 | 0.2 | 22.5 | Chrysotile | | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |

| Gr | No. | Loc. | ID Prim To | ot Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|------------|----------|--------|-------|--------|---------|----------|---------|------------------|
| G3 | 1 | E44 | | NSD | | | | | | | |
| G3 | 2 | F43 | | NSD | | | | | | | |
| G4 | 3 | F44 | | NSD | | | | | | | |
| G4 | 4 | G43 | | NSD | | | | | | | |
| G3 | 5 | F42 | | NSD | | | | | | | |
| G3 | 6 | G41 | | NSD | | | | | | | |
| G3 | 7 | G42 | | NSD | | | | | | | |
| G4 | 8 | C43 | | NSD | | | | | | | |
| G4 | 9 | C44 | | NSD | | | | | | | |
| G4 | 10 | E43 | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210957R03Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/27/2021

Lab/Cor Sample No: S8 Client Sample No: MV549 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | F42 | | | NSD | | | | | | | |
| G1 | 3 | F34 | | | NSD | | | | | | | |
| G1 | 4 | C32 | | | NSD | | | | | | | |
| G1 | 5 | E31 | | | NSD | | | | | | | |
| G2 | 6 | E32 | | | NSD | | | | | | | |
| G2 | 7 | F31 | | | NSD | | | | | | | |
| G2 | 8 | F24 | | | NSD | | | | | | | |
| G2 | 9 | G23 | | | NSD | | | | | | | |
| G2 | 10 | G31 | | | NSD | | | | | | | |

Lab/Cor Sample No: S9
Client Sample No: MV550
Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F54 | | | NSD | | | | | | | |
| G1 | 2 | G53 | | | NSD | | | | | | | |
| G1 | 3 | G62 | | | NSD | | | | | | | |
| G1 | 4 | E61 | | | NSD | | | | | | | |
| G1 | 5 | F32 | | | NSD | | | | | | | |
| G2 | 6 | G44 | | | NSD | | | | | | | |
| G2 | 7 | H43 | | | NSD | | | | | | | |
| G2 | 8 | H51 | | | NSD | | | | | | | |
| G2 | 9 | G34 | | | NSD | | | | | | | |
| G2 | 10 | H33 | | | NSD | | | | | | | |

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C52 | | | NSD | | | | | | | |
| G1 | 2 | E51 | | | NSD | | | | | | | |
| G1 | 3 | E62 | | | NSD | | | | | | | |
| G1 | 4 | F61 | | | NSD | | | | | | | |
| G1 | 5 | F54 | | | NSD | | | | | | | |
| G2 | 6 | G33 | | | NSD | | | | | | | |
| G2 | 7 | G41 | | | NSD | | | | | | | |
| G2 | 8 | H41 | | | NSD | | | | | | | |
| G2 | 9 | G32 | | | NSD | | | | | | | |
| G2 | 10 | G24 | | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210957R03Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/27/2021

Lab/Cor Sample No: S11 Client Sample No: MV552 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width A | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|---------|--------|---------|----------|---------|------------------|
| G3 | 1 | F32 | | NSD | | | | | | | |
| G3 | 2 | G31 | | NSD | | | | | | | |
| G3 | 3 | G24 | | NSD | | | | | | | |
| G3 | 4 | H23 | | NSD | | | | | | | |
| G3 | 5 | K31 | | NSD | | | | | | | |
| G4 | 6 | G44 | | NSD | | | | | | | |
| G4 | 7 | H43 | | NSD | | | | | | | |
| G4 | 8 | H51 | | NSD | | | | | | | |
| G4 | 9 | E54 | | NSD | | | | | | | |
| G4 | 10 | F53 | | NSD | | | | | | | |

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G3 | 1 | C42 | | | NSD | | | | | | | |
| G3 | 2 | E41 | | | NSD | | | | | | | |
| G3 | 3 | E32 | | | NSD | | | | | | | |
| G3 | 4 | F31 | | | NSD | | | | | | | |
| G3 | 5 | F24 | | | NSD | | | | | | | |
| G4 | 6 | G42 | | | NSD | | | | | | | |
| G4 | 7 | H41 | | | NSD | | | | | | | |
| G4 | 8 | H33 | | | NSD | | | | | | | |
| G4 | 9 | E44 | | | NSD | | | | | | | |
| G4 | 10 | F43 | | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210957R03Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/27/2021

| | L | Descript | ion: | | | | | | | | | |
|----|-----|----------|------|--------|-------------------------|--------|-------------------------|--------|------------|------------------------|--------|-------------------------------------|
| Gr | No. | Loc. | ID | Prim 1 | Tot Class | Length | Width | Aspect | Analyte | Elements C | omment | Count Categories |
| G1 | 1 | B24 | CDQ | 1 | Fiber | 1.2 | 0.07 | 17.1 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM Total, Chrys |
| | | | | | ItemT | | ItemNu | | | Confirmed | Comm | ent |
| | | | | | Diffra Spec Brigh | tra | F6623 F6623 F6623 | 4SP | | SH 9/29/2 SH 9/29/2 | | n ROW SPACING |
| G1 | 1 | B24 | CM | 2 | Matrix 1-0 | 1.5 | 1 | 1.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 1 | B24 | CM | 3 | Matrix 1-0 | 2.8 | 2 | 1.4 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 1 | B24 | CM | 4 | Fiber | 1.5 | 0.1 | 15 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0, Chrys |
| G1 | 1 | B24 | CQ | 5 | Fiber | 1 | 0.08 | 12.5 | Chrysotile | Mg, Si | | ASTM_Total, ASTM_0.5- 5.0, Chrys |
| G1 | 1 | B24 | CM | 6 | Matrix 1-0 | 1.5 | 1.5 | 1 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G1 | 1 | B24 | CM | 7 | Matrix 1-0 | 1.5 | 1 | 1.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 1 | B24 | CQ | 8 | Fiber | 13 | 0.08 | 162.5 | Chrysotile | Mg, Si | | ASTM_>=5.0, ASTM_Total, Chrys |
| G1 | 1 | B24 | CM | 9 | Fiber | 1.7 | 0.08 | 21.3 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 1 | B24 | CM | 10 | Fiber | 2 | 0.07 | 28.6 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 1 | B24 | CM | 11 | Fiber | 2.3 | 0.08 | 28.8 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 2 | C23 | CM | 12 | Fiber | 1.2 | 0.08 | 15 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G1 | 2 | C23 | CM | 13 | Fiber | 6 | 0.07 | 85.7 | Chrysotile | | | ASTM_>=5.0, Chrys, ASTM_Total |
| G1 | 2 | C23 | CM | 14 | Fiber | 0.6 | 0.08 | 7.5 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G1 | 2 | C23 | CM | 15 | Fiber | 8.0 | 0.07 | 11.4 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G1 | 2 | C23 | CM | 16 | Fiber | 4.2 | 0.1 | 42 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G1 | 2 | C23 | CM | 17 | Fiber | 3 | 0.08 | 37.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 2 | C23 | CM | 18 | Matrix 3-2 | 17 | 12 | 1.4 | Chrysotile | | | ASTM_>=5.0, ASTM_Total, Chrys |
| G1 | 2 | C23 | CM | 19 | Matrix 1-1 | 13 | 1 | 13 | Chrysotile | | | ASTM_>=5.0, ASTM_Total, Chrys |
| G1 | 2 | C23 | CM | 20 | Matrix 1-0 | 3 | 0.6 | 5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 2 | C23 | CQ | 21 | Bundle | 1.5 | 0.45 | 3.3 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total, Chrys |
| G1 | 2 | C23 | CM | 22 | Fiber | 1.3 | 0.08 | 16.2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 2 | C23 | CM | 23 | Fiber | 3 | 0.07 | 42.9 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 3 | C31 | CD | 24 | Fiber | 25 | 0.09 | 277.8 | Chrysotile | | | ASTM_>=5.0, Chrys, ASTM_Total |
| G1 | 3 | C31 | CM | 25 | Fiber | 3 | 0.08 | 37.5 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G1 | 3 | C31 | CM | 26 | Matrix 2-1 | 7 | 7 | 1 | Chrysotile | | | ASTM_>=5.0, ASTM_Total, Chrys |
| G1 | 3 | C31 | СМ | 27 | Fiber | 0.7 | 0.07 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210957R03

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/27/2021

| Gr | No. | Loc. | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Elements | Comm | ent | Count Categories |
|----|-----|------|----|------|-----|------------|--------|--------|--------|------------|----------|------|---------|---|
| G1 | 3 | C31 | СМ | 28 | | Fiber | 2 | 0.4 | 5 | Chrysotile | | | | ASTM_0.5-5.0, |
| G1 | 3 | C31 | СМ | 29 | | Matrix 1-0 | 2 | 1 | 2 | Chrysotile | | | | ASTM_Total, Chrys ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 3 | C31 | CD | 30 | | Fiber | 19 | 0.2 | 95 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total, Chrys |
| | | | | | | Item | Туре | ItemNı | um | | Confirm | ned | Comment | |
| | | | | | | Diffr | action | F6623 | S5DF | | | | | |
| G1 | 3 | C31 | CM | 31 | | Matrix 6-2 | 30 | 15 | 2 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total, Chrys |
| G1 | 3 | C31 | CM | 32 | | Fiber | 1 | 0.08 | 12.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 3 | C31 | СМ | 33 | | Bundle | 7 | 0.5 | 14 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total, Chrys |
| G1 | 3 | C31 | СМ | 34 | | Fiber | 3 | 0.5 | 6 | Chrysotile | | | | Chrys, ASTM_0.5-5.0, ASTM_Total |
| G1 | 3 | C31 | СМ | 35 | | Fiber | 1 | 0.07 | 14.3 | Chrysotile | | | | Chrys, ASTM_0.5-5.0, ASTM_Total |
| G1 | 4 | G34 | СМ | 36 | | Fiber | 1.5 | 0.07 | 21.4 | Chrysotile | | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G1 | 4 | G34 | CM | 37 | | Matrix 1-0 | 2.5 | 2 | 1.2 | Chrysotile | | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G1 | 4 | G34 | CM | 38 | | Fiber | 1 | 0.07 | 14.3 | Chrysotile | | | | Chrys, ASTM_0.5-5.0, ASTM_Total |
| G1 | 4 | G34 | СМ | 39 | | Matrix 1-0 | 5 | 3 | 1.7 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total, Chrys |
| G1 | 4 | G34 | СМ | 40 | | Fiber | 0.5 | 0.07 | 7.1 | Chrysotile | | | | Chrys, ASTM_0.5-5.0, ASTM_Total |
| G1 | 4 | G34 | СМ | 41 | | Matrix 3-0 | 15 | 15 | 1 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G1 | 4 | G34 | СМ | 42 | | Matrix 1-0 | 8 | 7 | 1.1 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G1 | 4 | G34 | СМ | 43 | | Fiber | 0.7 | 0.07 | 10 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 4 | G34 | СМ | 44 | | Matrix 1-1 | 12 | 5 | 2.4 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G1 | 4 | G34 | CM | 45 | | Matrix 1-1 | 9 | 4 | 2.2 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G1 | 4 | G34 | CM | 46 | | Matrix 3-3 | 10 | 10 | 1 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G1 | 4 | G34 | CQ | 47 | | Matrix 2-0 | 3 | 8.0 | 3.8 | Chrysotile | Mg Si | | | Chrys, ASTM_0.5-5.0, ASTM_Total |
| G1 | 4 | G34 | СМ | 48 | | Fiber | 1.5 | 0.08 | 18.8 | Chrysotile | | | | Chrys, ASTM_0.5-5.0, ASTM_Total |
| G1 | 4 | G34 | CM | 49 | | Matrix 1-0 | 3 | 0.5 | 6 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 4 | G34 | CM | 50 | | Fiber | 5.1 | 0.08 | 63.8 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G1 | 4 | G34 | СМ | 51 | | Fiber | 8 | 0.09 | 88.9 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G1 | 4 | G34 | CM | 52 | | Fiber | 1.5 | 0.08 | 18.8 | Chrysotile | | | | ASTM_0.5-5.0, ASTM Total, Chrys |
| G1 | 4 | G34 | СМ | 53 | | Fiber | 3.5 | 0.08 | 43.8 | Chrysotile | | | | Chrys, ASTM_Total, ASTM_0.5-5.0 |
| G1 | 4 | G34 | CM | 54 | | Fiber | 2.5 | 0.09 | 27.8 | Chrysotile | | | | Chrys, ASTM_0.5-5.0, ASTM_Total |
| G1 | 4 | G34 | СМ | 55 | | Bundle | 2 | 0.2 | 10 | Chrysotile | | | | ASTM_10.al ASTM_0.5-5.0, ASTM Total, Chrys |
| G1 | 4 | G34 | СМ | 56 | | Matrix 1-0 | 9 | 6 | 1.5 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total, Chrys |
| | | | | | | | | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210957R03Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/27/2021

| | L | Descript | ion: | | | | | | | | | |
|----|-----|----------|------|----------|-------------|--------|-------|--------|------------|----------|---------|-------------------------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G1 | 4 | G34 | CM | 57 | Bundle | 2 | 0.2 | 10 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0, Chrys |
| G1 | 4 | G34 | CM | 58 | Fiber | 8.0 | 0.08 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G1 | 4 | G34 | CM | 59 | Fiber | 12 | 0.07 | 171.4 | Chrysotile | | | ASTM_>=5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 60 | Matrix 1-0 | 2.5 | 2.5 | 1 | Chrysotile | 1 | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 61 | Matrix 1-0 | 3 | 2 | 1.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 62 | Cluster 3-0 | 2 | 2 | 1 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0, Chrys |
| G2 | 5 | G42 | CM | 63 | Fiber | 0.7 | 0.07 | 10 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0, Chrys |
| G2 | 5 | G42 | CM | 64 | Matrix 1-0 | 2 | 2 | 1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 65 | Bundle | 2.6 | 0.4 | 6.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 66 | Matrix 4-0 | 3 | 3 | 1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 67 | Matrix 1-1 | 5.5 | 2 | 2.8 | Chrysotile | | | ASTM_>=5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 68 | Fiber | 2 | 0.08 | 25 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CQ | 69 | Matrix 1-1 | 6.5 | 5 | 1.3 | Chrysotile | Mg, Si | | ASTM_>=5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 70 | Fiber | 1.5 | 0.07 | 21.4 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 71 | Fiber | 1.5 | 0.07 | 21.4 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 72 | Fiber | 1.5 | 0.08 | 18.8 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 73 | Matrix 1-0 | 1.8 | 0.6 | 3 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 74 | Matrix 1-1 | 14 | 5 | 2.8 | Chrysotile | | | ASTM_>=5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 75 | Fiber | 0.7 | 0.07 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CQ | 76 | Fiber | 3 | 0.08 | 37.5 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 77 | Fiber | 1 | 0.09 | 11.1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 78 | Fiber | 1.2 | 0.07 | 17.1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 5 | G42 | CM | 79 | Fiber | 1.6 | 0.09 | 17.8 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 80 | Fiber | 1.5 | 0.1 | 15 | Chrysotile | 1 | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 81 | Fiber | 1.2 | 0.08 | 15 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 82 | Fiber | 2.5 | 0.07 | 35.7 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 83 | Fiber | 1.5 | 0.1 | 15 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 84 | Fiber | 1.3 | 0.07 | 18.6 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 85 | Fiber | 1.4 | 0.09 | 15.6 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 86 | Fiber | 0.6 | 0.07 | 8.6 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0, Chrys |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210957R03

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/27/2021

| | | Descripti | on: | | | | | | | | | |
|----|-----|-----------|-----|---------|------------|--------|-------|--------|------------|----------|---------|-------------------------------------|
| Gr | No. | Loc. | ID | Prim To | ot Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G2 | 6 | H41 | CM | 87 | Fiber | 3 | 0.07 | 42.9 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total, Chrys |
| G2 | 6 | H41 | CM | 88 | Matrix 2-0 | 3.5 | 2 | 1.8 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0, Chrys |
| G2 | 6 | H41 | CQ | 89 | Bundle | 4 | 0.5 | 8 | Chrysotile | Mg, Si | | ASTM_Total, ASTM_0.5- 5.0, Chrys |
| G2 | 6 | H41 | CM | 90 | Fiber | 0.7 | 0.07 | 10 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0, Chrys |
| G2 | 6 | H41 | СМ | 91 | Fiber | 7 | 0.07 | 100 | Chrysotile | | | ASTM_>=5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | СМ | 92 | Fiber | 1.3 | 0.07 | 18.6 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 93 | Fiber | 6.5 | 0.08 | 81.2 | Chrysotile | | | ASTM_>=5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 94 | Fiber | 2.6 | 0.08 | 32.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | СМ | 95 | Fiber | 0.7 | 0.07 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | СМ | 96 | Fiber | 8.0 | 0.07 | 11.4 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0, Chrys |
| G2 | 6 | H41 | CD | 97 | Fiber | 9 | 0.08 | 112.5 | Chrysotile | | | ASTM_>=5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | СМ | 98 | Fiber | 2 | 0.08 | 25 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | СМ | 99 | Fiber | 3 | 0.1 | 30 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 100 | Fiber | 2.8 | 0.1 | 28 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 101 | Bundle | 1.3 | 0.3 | 4.3 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CQ | 102 | Bundle | 7 | 2 | 3.5 | Chrysotile | Mg, Si | | ASTM_>=5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 103 | Fiber | 0.6 | 0.07 | 8.6 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | СМ | 104 | Fiber | 1.3 | 0.07 | 18.6 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0, Chrys |
| G2 | 6 | H41 | CM | 105 | Fiber | 1 | 0.06 | 16.7 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 106 | Fiber | 1.3 | 0.09 | 14.4 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0, Chrys |
| G2 | 6 | H41 | CM | 107 | Fiber | 5.2 | 0.07 | 74.3 | Chrysotile | | | ASTM_>=5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 108 | Matrix 1-0 | 2.5 | 2 | 1.2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | CM | 109 | Fiber | 1 | 0.07 | 14.3 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total, Chrys |
| G2 | 6 | H41 | СМ | 110 | Fiber | 7 | 0.08 | 87.5 | Chrysotile | | | ASTM_>=5.0, ASTM_Total, Chrys |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210957R03Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/27/2021

Lab/Cor Sample No: S14 Client Sample No: MV555 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-----|----------|--------|---------|--------|--------|------------|--------------------------|------------|------------------|
| G1 | 1 | E32 | | | NSD | | | | | | | |
| G1 | 2 | F31 | | | NSD | | | | | | | |
| G1 | 3 | F32 | | | NSD | | | | | | | |
| G1 | 4 | G31 | | | NSD | | | | | | | |
| G1 | 5 | G32 | ODQ | 1 | Bundle | 9.12 | 1.04 | 8.8 | Richterite | Na, Mg, Si, K, Ca, Fe | | ASTMD_Other |
| | | | | | Item | Туре | ItemNu | ım | | Confirm | ed Comment | |
| | | | | | Spe | ctra | F6623 | 6SP | | | | |
| | | | | | Brig | htfield | F6623 | 6BF | | | | |
| | | | | | Diffr | action | F6623 | 6DF | | | | |
| G2 | 6 | H44 | | | NSD | | | | | | | |
| G2 | 7 | K43 | | | NSD | | | | | | | |
| G2 | 8 | K44 | | | NSD | | | | | | | |
| G2 | 9 | H54 | | | NSD | | | | | | | |
| G2 | 10 | K53 | | | NSD | | | | | | | |

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comr | ment | Count Categories |
|----|-----|------|-----|----------|--------|---------|--------|--------|------------|----------|---------|-----------|------------------------------------|
| G1 | 1 | E44 | | | NSD | | | | | | | | |
| G1 | 2 | F43 | | | NSD | | | | | | | | |
| G1 | 3 | F51 | | | NSD | | | | | | | | |
| G1 | 4 | C34 | | | NSD | | | | | | | | |
| G1 | 5 | E33 | | | NSD | | | | | | | | |
| G2 | 6 | F42 | CDQ | 1 | Fiber | 5 | 0.1 | 50 | Chrysotile | Mg, Si | | | Chrys, ASTM_>=5.0, ASTM_Total |
| | | | | | Item | Туре | ltemΝι | ım | | Confirm | ned | Comment | |
| | | | | | Brig | htfield | J6623 | 2BF | | | | | |
| | | | | | Diffi | raction | J6623 | 2DF | | SB 9/2 | 29/2021 | 0.53nm RC | OW SPACING |
| | | | | | Spe | ectra | J6623 | 2SP | | SB 9/2 | 9/2021 | | |
| G2 | 6 | F42 | СМ | 2 | Bundle | 1.5 | 0.1 | 15 | Chrysotile | | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G2 | 7 | G41 | CMQ | 3 | Fiber | 2.5 | 0.1 | 25 | Chrysotile | | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G2 | 7 | G41 | СМ | 4 | Bundle | 1.5 | 0.1 | 15 | Chrysotile | | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G2 | 7 | G41 | CM | 5 | Fiber | 2 | 0.1 | 20 | Chrysotile | | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G2 | 8 | G34 | | | NSD | | | | | | | | |
| G2 | 9 | H33 | | | NSD | | | | | | | | |
| G2 | 10 | F34 | CMQ | 6 | Fiber | 2.5 | 0.1 | 25 | Chrysotile | | | | ASTM_0.5-5.0, Chrys, ASTM_Total |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210957R03Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/27/2021

Lab/Cor Sample No: S16 Client Sample No: MV557 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G3 | 1 | C34 | | | NSD | | | | | | | |
| G3 | 2 | E33 | | | NSD | | | | | | | |
| G3 | 3 | E34 | | | NSD | | | | | | | |
| G4 | 4 | F41 | | | NSD | | | | | | | |
| G4 | 5 | F42 | | | NSD | | | | | | | |

Lab/Cor Sample No: S17 Client Sample No: MV558 Description:

| Gr | No. | Loc. | ID Prin | n Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|---------|-------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G3 | 1 | F41 | | | NSD | | | | | | | |
| G3 | 2 | F42 | | | NSD | | | | | | | |
| G4 | 3 | E34 | | | NSD | | | | | | | |
| G4 | 4 | F33 | | | NSD | | | | | | | |
| G3 | 5 | C32 | | | NSD | | | | | | | |
| G3 | 6 | E31 | | | NSD | | | | | | | |
| G3 | 7 | E32 | | | NSD | | | | | | | |
| G4 | 8 | C33 | | | NSD | | | | | | | |
| G4 | 9 | E33 | | | NSD | | | | | | | |
| G4 | 10 | F34 | | | NSD | | | | | | | |

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C34 | | NSD | | | | | | | |
| G1 | 2 | E33 | | NSD | | | | | | | |
| G1 | 3 | F42 | | NSD | | | | | | | |
| G1 | 4 | F43 | | NSD | | | | | | | |
| G1 | 5 | C52 | | NSD | | | | | | | |
| G2 | 6 | C33 | | NSD | | | | | | | |
| G2 | 7 | E41 | | NSD | | | | | | | |
| G2 | 8 | E42 | | NSD | | | | | | | |
| G2 | 9 | G43 | | NSD | | | | | | | |
| G2 | 10 | G44 | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210957R03

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/27/2021

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G3 | 1 | E41 | | | NSD | | | | | | | |
| G3 | 2 | E42 | | | NSD | | | | | | | |
| G4 | 3 | F41 | | | NSD | | | | | | | |
| G4 | 4 | F42 | | | NSD | | | | | | | |
| G3 | 5 | F43 | | | NSD | | | | | | | |
| G3 | 6 | F44 | | | NSD | | | | | | | |
| G3 | 7 | G43 | | | NSD | | | | | | | |
| G3 | 8 | G44 | | | NSD | | | | | | | |
| G4 | 9 | E33 | | | NSD | | | | | | | |
| G4 | 10 | E34 | | | NSD | | | | | | | |



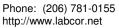
ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210957R03Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/27/2021

Lab/Cor Sample No: S20 Client Sample No: MV561 Description:

| Gr | No. | Loc. | ID | Prim | Tot Class | Length | Width | Aspect | Analyte | Elements Con | nment | Count Categories |
|----|-----|------|-----|------|------------|----------|--------|--------|------------|--------------|---------|------------------------------------|
| G1 | 1 | E41 | CDQ | 1 | Fiber | 2.64 | 0.09 | 29.3 | Chrysotile | Mg, Si, Ca | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| | | | | | Iter | nType | ItemN | ım | | Confirmed | Comment | |
| | | | | | | fraction | F6623 | | | SH 9/29/2021 | | OW SPACING |
| | | | | | | ectra | F6623 | | | SH 9/29/2021 | | |
| | | | | | Bri | ghtfield | F6623 | /BF | | | | |
| G1 | 2 | E42 | CD | 2 | Fiber | 4 | 0.09 | 44.4 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G1 | 2 | E42 | СМ | 3 | Fiber | 3 | 0.08 | 37.5 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G1 | 3 | F41 | СМ | 4 | Fiber | 5.2 | 0.08 | 65 | Chrysotile | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G1 | 3 | F41 | СМ | 5 | Fiber | 10 | 0.1 | 100 | Chrysotile | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G1 | 4 | F42 | CD | 6 | Fiber | 2.5 | 0.1 | 25 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| - | | | | | Iter | nType | ItemNı | ım | | Confirmed | Comment | |
| | | | | | Dif | fraction | F6623 | 8DF | | | | |
| G1 | 4 | F42 | СМ | 7 | Fiber | 2.8 | 0.1 | 28 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G1 | 5 | G41 | СМ | 8 | Matrix 1-0 | 2.8 | 0.15 | 18.7 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM Total |
| G1 | 5 | G41 | СМ | 9 | Fiber | 7 | 0.09 | 77.8 | Chrysotile | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G1 | 5 | G41 | СМ | 10 | Fiber | 5.5 | 0.11 | 50 | Chrysotile | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G2 | 6 | C42 | CQ | 11 | Fiber | 9 | 0.08 | 112.5 | Chrysotile | Mg, Si, Ca | | Chrys, ASTM_>=5.0, ASTM_Total |
| G2 | 6 | C42 | СМ | 12 | Fiber | 6.5 | 0.08 | 81.2 | Chrysotile | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G2 | 7 | E41 | СМ | 13 | Fiber | 4.5 | 0.07 | 64.3 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G2 | 7 | E41 | CM | 14 | Fiber | 6.5 | 0.08 | 81.2 | Chrysotile | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G2 | 8 | E42 | СМ | 15 | Fiber | 2.8 | 0.1 | 28 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G2 | 8 | E42 | CM | 16 | Fiber | 5.5 | 0.08 | 68.8 | Chrysotile | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G2 | 8 | E42 | CQ | 17 | Matrix 3-0 | 4.5 | 3 | 1.5 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G2 | 8 | E42 | СМ | 18 | Matrix 2-1 | 5 | 5 | 1 | Chrysotile | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G2 | 9 | F41 | СМ | 19 | Fiber | 2.5 | 0.08 | 31.2 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G2 | 9 | F41 | СМ | 20 | Fiber | 1.3 | 0.1 | 13 | Chrysotile | | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| G2 | 9 | F41 | CM | 21 | Fiber | 5.3 | 0.07 | 75.7 | Chrysotile | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G2 | 10 | G43 | | | NSD | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210957R03Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/27/2021

Lab/Cor Sample No: S21 Client Sample No: MV562 Description:

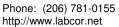
| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G3 | 1 | G41 | | NSD | | | | | | | |
| G3 | 2 | G42 | | NSD | | | | | | | |
| G4 | 3 | E33 | | NSD | | | | | | | |
| G4 | 4 | E34 | | NSD | | | | | | | |
| G3 | 5 | G43 | | NSD | | | | | | | |
| G3 | 6 | G44 | | NSD | | | | | | | |
| G3 | 7 | H43 | | NSD | | | | | | | |
| G3 | 8 | H44 | | NSD | | | | | | | |
| G4 | 9 | E31 | | NSD | | | | | | | |
| G4 | 10 | E32 | | NSD | | | | | | | |

Lab/Cor Sample No: S22 Client Sample No: MV563 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width A | spect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|---------|-------|---------|----------|---------|------------------|
| G1 | 1 | H33 | | NSD | | | | | | | |
| G1 | 2 | H34 | | NSD | | | | | | | |
| G2 | 3 | F41 | | NSD | | | | | | | |
| G2 | 4 | F42 | | NSD | | | | | | | |

Lab/Cor Sample No: S23 Client Sample No: MV564 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Element | s Comr | ment | Count Categories |
|----|-----|------|-----|----------|------------|---------|----------|--------|------------|---------|-----------|-----------|------------------------------------|
| G3 | 1 | C41 | CDQ | 1 | Matrix 1-0 | 4.8 | 1.9 | 2.5 | Chrysotile | Mg, | Si | | ASTM_0.5-5.0, Chrys, ASTM_Total |
| - | | | | | Item | Туре | ItemNu | ım | | Co | nfirmed | Comment | |
| | | | | | Diffi | raction | F6624 | 3DF | | SH | 9/29/2021 | 0.53nm R0 | OW SPACING |
| | | | | | Spe | ctra | F6624 | 3SP | | SH | 9/29/2021 | | |
| | | | | | Brig | htfield | F66243BF | | | | | | |
| G3 | 2 | C44 | CM | 2 | Fiber | 8 | 0.08 | 100 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G4 | 3 | E44 | | | NSD | | | | | | | | |
| G4 | 4 | F43 | | | NSD | | | | | | | | |
| G4 | 5 | E51 | | | NSD | | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210957R03Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/27/2021

Lab/Cor Sample No: S24 Client Sample No: MV565 Description:

| Gr | No. | Loc. | ID | Prim | Tot Class | Length | Width | Aspect | Analyte | Elements | Comn | nent | Count Categories |
|----|-----|------|-----|------|-------------|-------------------------------|-------------------------|--------|------------|------------------------|------|-----------|------------------------------------|
| G7 | 1 | C41 | CD | 1 | Matrix 2-0 | 4.12 | 7.28 | 0.6 | Chrysotile | | | | ASTM_Total, Chrys, ASTM_0.5-5.0 |
| | | | | | Iter | пТуре | ItemNu | ım | | Confirmed | d | Comment | |
| | | | | | | fraction ghtfield | F6626 F6626 | | | SH 9/30/3 | 2021 | 0.53nm RC | OW SPACING |
| G7 | 1 | C41 | CQ | 2 | Matrix 1-0 | 2.5 | 0.5 | 5 | Chrysotile | Mg, Si | | | Chrys, ASTM_0.5-5.0, ASTM_Total |
| G7 | 2 | C42 | CD | 3 | Matrix 2-0 | 7 | 5 | 1.4 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G7 | 3 | E41 | CQ | 4 | Matrix 2-0 | 6.5 | 1 | 6.5 | Chrysotile | Mg, Si | | | Chrys, ASTM_>=5.0, ASTM_Total |
| | | | | | Iter | пТуре | ItemNı | ım | | Confirmed | d | Comment | |
| | | | | | • | ectra ghtfield | F6627 F6627 | - | | | | | |
| G7 | 4 | E42 | CM | 5 | Matrix 5-1 | 15 | 15 | 1 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G7 | 4 | E42 | CM | 6 | Matrix 2-1 | 10 | 10 | 1 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G7 | 5 | F41 | CM | 7 | Matrix 2-1 | 13 | 0.7 | 18.6 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G8 | 6 | E51 | | | NSD | | | | | | | | |
| G8 | 7 | E52 | | | NSD | | | | | | | | |
| G8 | 8 | F51 | CDQ | 8 | Matrix 1-1 | 10 | 5 | 2 | Chrysotile | Mg, Si, Fe | | | Chrys, ASTM_>=5.0, ASTM_Total |
| | | | | | Iter | пТуре | ItemNu | ım | | Confirmed | d | Comment | |
| | | | | | Sp | fraction ectra ghtfield | F6627 F6627 F6627 | 3SP | | SH 9/30/3 SH 9/30/3 | | 0.53nm RC | OW SPACING |
| G8 | 9 | F42 | CM | 9 | Matrix 4-1 | 12 | 7 | 1.7 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G8 | 9 | F42 | СМ | 10 | Matrix 2-0 | 9 | 5 | 1.8 | Chrysotile | | | | ASTM_Total, Chrys, ASTM_>=5.0 |
| G8 | 10 | G41 | CQ | 11 | Matrix 6-0 | 9 | 5 | 1.8 | Chrysotile | Mg, Si | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G8 | 10 | G41 | СМ | 12 | Matrix 10-0 | | 15 | 1 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |
| G8 | 10 | G41 | СМ | 13 | Matrix 2-1 | 7 | 5 | 1.4 | Chrysotile | | | | Chrys, ASTM_>=5.0, ASTM_Total |

Lab/Cor Sample No: S25 Client Sample No: MV566 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G3 | 1 | E51 | | NSD | | | | | | | |
| G3 | 2 | E52 | | NSD | | | | | | | |
| G4 | 3 | E41 | | NSD | | | | | | | |
| G4 | 4 | E42 | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210957R03Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/27/2021

Lab/Cor Sample No: S26 Client Sample No: MV567 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E41 | | NSD | | | | | | | |
| G1 | 2 | E42 | | NSD | | | | | | | |
| G2 | 3 | C42 | | NSD | | | | | | | |
| G2 | 4 | E41 | | NSD | | | | | | | |
| G1 | 5 | G44 | | NSD | | | | | | | |
| G1 | 6 | H43 | | NSD | | | | | | | |
| G1 | 7 | H44 | | NSD | | | | | | | |
| G1 | 8 | K43 | | NSD | | | | | | | |
| G2 | 9 | E44 | | NSD | | | | | | | |
| G2 | 10 | F43 | | NSD | | | | | | | |

Lab/Cor Sample No: S27 Client Sample No: MV568 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Element | s Comr | nent Count Categories |
|----|-----|------|-----|----------|--------|----------|--------|--------|------------|------------------|-----------|------------------------------------|
| G3 | 1 | F31 | CDQ | 1 | Bundle | 3.81 | 2.96 | 1.3 | Chrysotile | Mg, Al, Ca, F | | ASTM_Total, Chrys, ASTM_0.5-5.0 |
| | | | | | Iter | пТуре | ItemNı | ım | | Cor | nfirmed | Comment |
| | | | | | Dif | raction | F6626 | 6DF | | SH | 9/30/2021 | 0.53nm ROW SPACING |
| | | | | | Sp | ectra | F6626 | 6SP | | SH | 9/30/2021 | |
| | | | | | Bri | ghtfield | F6626 | 6BF | | | | |
| G3 | 2 | H42 | | | NSD | | | | | | | |
| G4 | 3 | C43 | | | NSD | | | | | | | |
| G4 | 4 | C51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S28 Client Sample No: MV569 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E53 | | | NSD | | | | | | | |
| G1 | 2 | F61 | | | NSD | | | | | | | |
| G2 | 3 | G21 | | | NSD | | | | | | | |
| G2 | 4 | G41 | | | NSD | | | | | | | |
| G1 | 5 | G32 | | | NSD | | | | | | | |
| G1 | 6 | H54 | | | NSD | | | | | | | |
| G2 | 7 | F32 | | | NSD | | | | | | | |
| G2 | 8 | H41 | | | NSD | | | | | | | |
| G2 | 9 | E34 | | | NSD | | | | | | | |
| G2 | 10 | F54 | | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210957R03Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/27/2021

Lab/Cor Sample No: S29 Client Sample No: MV570 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G7 | 1 | F31 | | NSD | | | | | | | |
| G7 | 2 | F32 | | NSD | | | | | | | |
| G7 | 3 | G31 | | NSD | | | | | | | |
| G7 | 4 | G33 | | NSD | | | | | | | |
| G7 | 5 | G34 | | NSD | | | | | | | |
| G8 | 6 | F43 | | NSD | | | | | | | |
| G8 | 7 | F44 | | NSD | | | | | | | |
| G8 | 8 | G43 | | NSD | | | | | | | |
| G8 | 9 | G44 | | NSD | | | | | | | |
| G8 | 10 | F42 | | NSD | | | | | | | |

Lab/Cor Sample No: S30 Client Sample No: MV571 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | NSD | | | | | | | |
| G1 | 2 | G44 | | NSD | | | | | | | |
| G2 | 3 | C42 | | NSD | | | | | | | |
| G2 | 4 | E41 | | NSD | | | | | | | |

Lab/Cor Sample No: S31 Client Sample No: MV572 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width A | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|---------|--------|---------|----------|---------|------------------|
| G7 | 1 | C32 | | NSD | | | | | | | |
| G7 | 2 | E31 | | NSD | | | | | | | |
| G7 | 3 | F31 | | NSD | | | | | | | |
| G7 | 4 | F32 | | NSD | | | | | | | |
| G8 | 5 | C33 | | NSD | | | | | | | |
| G8 | 6 | C34 | | NSD | | | | | | | |
| G8 | 7 | E33 | | NSD | | | | | | | |
| G8 | 8 | E34 | | NSD | | | | | | | |
| G8 | 9 | F33 | | NSD | | | | | | | |
| G8 | 10 | F34 | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210957R03

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/27/2021

Lab/Cor Sample No: S32 Client Sample No: MV573 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|-------------------------|
| G1 | 1 | G34 | | | NSD | | | | | | | |
| G1 | 2 | H33 | | | NSD | | | | | | | |
| G1 | 3 | H41 | | | NSD | | | | | | | |
| G1 | 4 | G52 | | | NSD | | | | | | | |
| G1 | 5 | H51 | | | NSD | | | | | | | |
| G2 | 6 | C34 | | | NSD | | | | | | | |
| G2 | 7 | E33 | | | NSD | | | | | | | |
| G2 | 8 | E41 | | | NSD | | | | | | | |
| G2 | 9 | E32 | | | NSD | | | | | | | |
| G2 | 10 | F31 | | | NSD | | | | | | | |

Lab/Cor Sample No: S33 Client Sample No: MV574 Description:

| Gr | No. | Loc. | ID Prim Tot | t Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|---------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | NSD | | | | | | | |
| G1 | 2 | F43 | | NSD | | | | | | | |
| G1 | 3 | F51 | | NSD | | | | | | | |
| G1 | 4 | F32 | | NSD | | | | | | | |
| G1 | 5 | G31 | | NSD | | | | | | | |
| G2 | 6 | E34 | | NSD | | | | | | | |
| G2 | 7 | F33 | | NSD | | | | | | | |
| G2 | 8 | F41 | | NSD | | | | | | | |
| G2 | 9 | F52 | | NSD | | | | | | | |
| G2 | 10 | G51 | | NSD | | | | | | | |

Lab/Cor Sample No: S34 Client Sample No: MV575 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F34 | | | NSD | | | | | | | |
| G1 | 2 | G33 | | | NSD | | | | | | | |
| G1 | 3 | E44 | | | NSD | | | | | | | |
| G1 | 4 | F43 | | | NSD | | | | | | | |
| G1 | 5 | F51 | | | NSD | | | | | | | |
| G2 | 6 | F34 | | | NSD | | | | | | | |
| G2 | 7 | G33 | | | NSD | | | | | | | |
| G2 | 8 | G24 | | | NSD | | | | | | | |
| G2 | 9 | H23 | | | NSD | | | | | | | |
| G2 | 10 | F43 | | | NSD | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210957 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 210957R03Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/27/2021

Count Categories

 $Actin \qquad Actinolite Structures \qquad ASTM_>=5.0 \qquad ASTM Asbestos >=5.0 \mu m \qquad ASTM_0.5-5.0 \quad ASTM Asbestos >=0.5 \mu m - <5.0 \mu m < 1.5 \mu m -$

ASTM_Total ASTM Total Asbestos >=0.5µm ASTMD_Other ASTM Libby-Other >0.5µm Chrys Chrysotile Structures

Reviewed by:

Sierra Hinkle



LABORATORY CHAIN OF CUSTODY

| Project: <u>Pierce College</u> | Olympic South Abatement and Repairs | Project #: <u>40535.488</u> | | | | |
|--------------------------------|-------------------------------------|-----------------------------|--|--|--|--|
| Analysis requested: As | Date: 9/27/2021 | | | | | |
| Relinq'd by/Signature: | | Date/Time: 9/27/2021 | | | | |
| Received by/Signature: | | Date/Time: | | | | |
| | Email ALL INVOICES to: seattleap@pb | susa.com | | | | |
| E-mail results to: | | | | | | |
| ☐ Brian Stanford | ☐ Prudy Stoudt-McRae | Mike Smith | | | | |
| ☐ Willem Mager | ☐ Janet Murphy | Ferman Fletcher | | | | |
| Gregg Middaugh | Kaitlin Soukup | Ryan Hunter | | | | |
| Mark Hiley | Claire Tsai | Michelle Dodson | | | | |
| Tim Ogden | ☐ Holly Tuttle | | | | | |
| TURN AROUND TIME: | | | | | | |
| 1 Hour | 24 Hours | 3 Days | | | | |
| 2 Hours | × 48 Hours | Other | | | | |
| 4 Hours | | <u> </u> | | | | |
| | ort as presence or absence*** | | | | | |

| | SAMPLE DATA FORM | | | | | | | | | | |
|----------|------------------|--|--------|--|--|--|--|--|--|--|--|
| Sample # | Material | Location | Lab | | | | | | | | |
| MV542 | Surface Dust | Mech 173 Panel F5RA Breaker 1 | Labcor | | | | | | | | |
| MV543 | Surface Dust | Mech 173 Panel F5RA Breaker 39 | | | | | | | | | |
| MV544 | Surface Dust | Mech 173 Fire alarm conduit to J box blank | | | | | | | | | |
| MV545 | Surface Dust | Mech 173 Conduit to VFD with wires | | | | | | | | | |
| MV546 | Surface Dust | Room 181A J-box to Mech 173 conduit with wire | | | | | | | | | |
| MV547 | Surface Dust | Room 168 data/phone box | | | | | | | | | |
| MV548 | Surface Dust | 168 corridor data conduit with wire | | | | | | | | | |
| MV549 | Surface Dust | Room 181 west light switch box | | | | | | | | | |
| MV550 | Surface Dust | Room 181 light switch conduit J-box to F5LA #6 | | | | | | | | | |
| MV551 | Surface Dust | Room 169 light switch north wall | | | | | | | | | |
| MV552 | Surface Dust | Room 169 data box east wall | | | | | | | | | |
| MV553 | Surface Dust | Room 181 middle room data box | | | | | | | | | |
| MV554 | Surface Dust | Receptacle box across from Room 184 north wall | | | | | | | | | |
| MV555 | Surface Dust | Receptacle box room 169 east wall | | | | | | | | | |
| MV556 | Surface Dust | Receptacle box 181A adjacent to door of 181B | | | | | | | | | |
| MV557 | Surface Dust | Data box – adjacent to O260 door | | | | | | | | | |
| MV558 | Surface Dust | Data conduit – adjacent to O260 door | | | | | | | | | |
| MV559 | Surface Dust | Light switch – O269 – North wall | | | | | | | | | |
| MV560 | Surface Dust | Light switch conduit – O269 ->H6CA | | | | | | | | | |



LABORATORY CHAIN OF CUSTODY

| MV561 | Surface Dust | Receptacle box – 284A – NW wall | |
|-------|--------------|---|--|
| MV562 | Surface Dust | Receptacle conduit – 284A – HCRB, breaker 12+26 | |
| MV563 | Surface Dust | Receptacle box – 270 – SW wall | |
| MV564 | Surface Dust | Data box – O283 – South wall – by piano | |
| MV565 | Surface Dust | Light switch – Corridor of O269-271 – South wall | |
| MV566 | Surface Dust | Receptacle box – O324 | |
| MV567 | Surface Dust | Receptacle conduit – O324 -> H7RB | |
| MV568 | Surface Dust | Light switch – Break/printer room of O330 | |
| MV569 | Surface Dust | Light switch conduit – Break/printer room of O330 -> H7LA | |
| MV570 | Surface Dust | Data box – 3 rd Fl. student lounge – E. wall | |
| MV571 | Surface Dust | Data box conduit – 3 rd Fl. student lounge – E. wall -> floor plenum | |
| MV572 | Surface Dust | Receptacle box – Office room O334/O335 | |
| MV573 | Surface Dust | Light switch – 3 rd Fl. IDF room -> J-box-> H7LA | |
| MV574 | Surface Dust | Data box – O323 – SE wall. | |
| MV575 | | Field Blank | |



ASTM D 5755-09 - Microvac Final Report

Job Number: 210967 Report Number: 210967R01 Report Date: 10/1/2021

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample # Client Sample # and Description Analysis

210967 - S1 MV576 -ASTM D 5755-09 - Microvac Date Received: 9/30/2021

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

Analysis Notes

Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Sierra Hinkle



ASTM D 5755-09 - Microvac Final Report

Job Number: 210967 SEA Report Number: 210967R01
Client: PBS Engineering + Environmental Date Received: 9/30/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV576 Lab Filter Area (mm2): 289.38

Description: Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 803.833

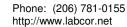
Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH10/1/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Sierra Hinkle





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210967 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210967R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/30/2021

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV576 Description:

| Gr | No. | Loc. | ID | Prim 7 | Tot Cla | ass Leng | th Width | Aspect | Analyte | Element | s Com | ment | Count Categories |
|-------|---------|--------|-----------|-----------|---------|------------|----------|-------------|---------------|---------|----------|----------|---------------------|
| G5 | 1 | C31 | | | NS | SD | | | | | | | |
| G5 | 2 | H44 | | | NS | SD | | | | | | | |
| G6 | 3 | G44 | | | NS | SD | | | | | | | |
| G6 | 4 | H43 | | | NS | SD | | | | | | | |
| Count | Catego | ries | | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM A | Asbestos | >=5.0µm | 1 | ASTM_0.5-5 | .0 ASTM | Asbestos >= | =0.5μm - <5.0 | μm AS | ΓM_Total | ASTM Tot | al Asbestos >=0.5μm |
| ASTM | D_Other | ASTM L | _ibby-Oth | er >0.5μι | m | | | | | | | | |

Reviewed by:

Sierra Hinkle



LABORATORY CHAIN OF CUSTODY

210967

| Project: | Pierce Colle | ge Ołym | pic South Abatement and Repairs | Project #: 40535.488 | |
|--|------------------------------------|-------------------|---|--|--|
| Anałysis re | quested: | ASTM п | nicrovac dust sample | Date: 9/28/2021 | |
| Reling'd by | //Signature: | Clail | u-Toai | Date/Time: 9/28/202 | 1 |
| | y/Signature | | -Bn | 1 1 | 8 E0004 |
| | <i>,,</i> <u>-</u> | | E-sil Ala Alvoices | | |
| ☐ Mark Hi | anford Mager Aiddaugh Iey | | Email Ald NVOICES to: seattleap@pbsus Prudy Stoudt-McRae Janet Murphy Kaitlin Soukup Claire Tsai | Mike Smith Ferman Fletcher Ryan Hunter Michelle Dodson | |
| TIM Ogc TURN AROL 1 Hour 2 Hours 4 Hours | FND TIME: | 2/1000 | ☐ Holly Tuttle ☐ 24 Hours ☐ 48 Hours | 3 Days Other | |
| | LOL | > <1000 | | | |
| | | | SAMPLE DATA FORM | | |
| Sample # | Mate | rial | Location | | Lab |
| MV576 | Dust - 100c | m2 area | Mech 173 Jace unit | | Labcor |
| : | | | | · | |
| | | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | | ACCOUNT OF THE PROPERTY OF THE |
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9/30/2021

ASTM D 5755-09 - Microvac Final Report

Job Number: 210966 Report Number: 210966R01 Report Date: 9/30/2021

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample # Client Sample # and Description Analysis Date Received: **Analysis Notes**

210966 - S1 MV577 -ASTM D 5755-09 - Microvac

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Sierra Hinkle



ASTM D 5755-09 - Microvac Final Report

Job Number: 210966 SEA Report Number: 210966R01
Client: PBS Engineering + Environmental Date Received: 9/30/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV577

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 12

Filter Fraction: 1 Aliquot Dilution: 0.0125 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.0125 Area Analyzed (mm2): 0.144

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 1607.667

Volume Taken: 0.25 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH9/30/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 1607.667 | 0 - 5930.682 - Poisson | 0 | |
| ASTM Asbestos >=5.0μm | 1607.667 | 40.192 - 8957.919 - Poisson | 1 | |
| ASTM Libby-Other >0.5μm | < 1607.667 | 0 - 5930.682 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5μm | 1607.667 | 40.192 - 8957.919 - Poisson | 1 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Sierra Hinkle





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 210966 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 210966R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/30/2021

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV577 Description:

| | L | escripti | ЮП. | | | | | | | | | | |
|-------|---------|----------|-----------|------------|-------|------------|--------|------------|-----------------|----------|-----------|--------------------------|---------------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comi | ment | Count Categories |
| G5 | 1 | C52 | | | NSD | | | | | | | | |
| G5 | 2 | E51 | | | NSD | | | | | | | | |
| G5 | 3 | E52 | | | NSD | | | | | | | | |
| G5 | 4 | F51 | | | NSD | | | | | | | | |
| G5 | 5 | F52 | | | NSD | | | | | | | | |
| G5 | 6 | G51 | | | NSD | | | | | | | | |
| G5 | 7 | G52 | | | NSD | | | | | | | | |
| G6 | 8 | E32 | | | NSD | | | | | | | | |
| G6 | 9 | G31 | | | NSD | | | | | | | | |
| G6 | 10 | G32 | | | NSD | | | | | | | | |
| G6 | 11 | H31 | | | NSD | | | | | | | | |
| G6 | 12 | E33 | CDQ | 1 | Fiber | 5.59 | 0.1 | 55.9 | Chrysotile | Mg, Si, | Ca | | ASTM_>=5.0, ASTM_Total |
| | | | | | Ite | mType | ItemNu | ım | | Conf | firmed | Comment | |
| | | | | | Di | ffraction | F6631 | 2DF | | SH | 9/30/2021 | 0.53nm RC diffraction | W SPACING; Very faint |
| | | | | | Sp | ectra | F6631 | 2SP | | SH | 9/30/2021 | | |
| | | | | | Br | ightfield | F6631 | 2BF | | | | | |
| Count | Catego | ries | | | | | | | | | | | |
| | _>=5.0 | | Asbestos | >=5.0μm | AS | TM_0.5-5.0 | ASTM A | sbestos >= | ·0.5μm - <5.0μr | n AST | M_Total | ASTM Total | Asbestos >=0.5μm |
| ASTM | D_Other | ASTM | Libby-Oth | ner >0.5µm | | | | | | | | | |

Reviewed by:

Sierra Hinkle Technician/Analyst



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| Analysis re Relinq'd by Received b | quested: ASTM n y/Signature: ASTM n y/Signature: ASTM n | pic South Abatement and Repairs nicrovac dust sample Control Email ALL INVOICES to: seattleap@ | Project #: 40535.488 Date: 9/28/2021 Date/Time: 9/28/2021 Date/Time: 9/30/4 8:00 9 |
|--|---|---|---|
| E-mail resul Brian Sta Willem I Gregg M Mark Hi Tim Ogo | anford Mager Middaugh Jey | ☐ Prudy Stoudt-McRae ☐ Janet Murphy ☐ Kaitlin Soukup ☐ Claire Tsai ☐ Holly Tuttle | Mike Smith Ferman Fletcher Ryan Hunter Michelle Dodson |
| TURN AROL 1 Hour 2 Hours 4 Hours | | ≥ 24 Hours 48 Hours | ☐ 3 Days ☐ Other |
| | | SAMPLE DATA FORM | |
| Sample # MV577 | Material Dust - 100cm2 area | 3rd Fl. Student lounge sub-floor | ion Lab Labcor |
| | | | |
| | | Reviewed by: | |
| | | Results Released: | |
| | | | |
| | | | |



ASTM D 5755-09 - Microvac Final Report

Job Number: 211001 Report Number: 211001R01 Report Date: 10/7/2021

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Sample # | Client Sample # and Description | Analysis | Analysis Notes | Date Received: |
|------------------|---------------------------------|---------------------------|----------------|----------------|
| 211001 - S1 | MV578 - | ASTM D 5755-09 - Microvac | | 10/5/2021 |
| 211001 - S2 | MV579 - | ASTM D 5755-09 - Microvac | | 10/5/2021 |
| 211001 - S3 | MV580 - | ASTM D 5755-09 - Microvac | | 10/5/2021 |
| 211001 - S4 | MV581 - | ASTM D 5755-09 - Microvac | | 10/5/2021 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Sierra Hinkle Technician/Analyst



ASTM D 5755-09 - Microvac Final Report

Job Number: 211001 SEA Report Number: 211001R01
Client: PBS Engineering + Environmental Date Received: 10/5/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV578

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 803.833

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH10/7/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|-----------------------------------|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5µm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV579

Description:

Filter Fraction: 1

Aliquot Dilution: 0.075

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 803.833

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification
SH 10/7/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 211001 SEA Report Number: 211001R01
Client: PBS Engineering + Environmental Date Received: 10/5/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV580

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 803.833

Volume Taken: 1.5 ml

Analyst(s)Analysis DateMicroscopeMagnificationSH10/7/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV581

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 803.833

Volume Taken: 1.5 ml

Analyst(s) Analysis Date Microscope Magnification
SH 10/7/2021 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 803.833 | 20.096 - 4478.959 - Poisson | 1 | |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5µm | 803.833 | 20.096 - 4478.959 - Poisson | 1 | |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Sierra Hinkle Technician/Analyst



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 211001 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 211001R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 10/5/2021

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV578 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width As | pect Analy | te Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|----------|------------|-------------|---------|-------------------------|
| G5 | 1 | F41 | | NSD | | | | | | |
| G5 | 2 | F42 | | NSD | | | | | | |
| G6 | 3 | G31 | | NSD | | | | | | |
| G6 | 4 | G32 | | NSD | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV579 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|--------------|---------|----------|---------|------------------|
| G3 | 1 | F33 | | NSD | | | | | | |
| G3 | 2 | F34 | | NSD | | | | | | |
| G4 | 3 | E32 | | NSD | | | | | | |
| G4 | 4 | F31 | | NSD | | | | | | |

Lab/Cor Sample No: S3 Client Sample No: MV580 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G3 | 1 | E43 | | NSD | | | | | | | |
| G3 | 2 | E44 | | NSD | | | | | | | |
| G4 | 3 | F52 | | NSD | | | | | | | |
| G4 | 4 | G51 | | NSD | | | | | | | |

Lab/Cor Sample No: S4 Client Sample No: MV581 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comm | nent | Count Categories |
|----|-----|------|-----|----------|------------|---------|--------|--------|------------|---------------------------|--------|----------|------------------------------|
| G3 | 1 | F43 | | | NSD | | | | | | | | |
| G3 | 2 | F44 | | | NSD | | | | | | | | |
| G4 | 3 | E42 | ADQ | 1 | Matrix 1-0 | 3.47 | 1.08 | 3.2 | Actinolite | Mg, Al, Si, Ca, Ti, Fe | | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | Item | Туре | ItemNu | ım | | Confirm | ned | Commen | t |
| | | | | | Diffr | action | F6664 | 4DF | | SH 10/ | 7/2021 | 0.53nm F | ROW SPACING |
| | | | | | Spe | ctra | F6664 | 4SP | | SH 10/ | 7/2021 | | |
| | | | | | Brig | htfield | F6664 | 4BF | | | | | |
| G4 | 4 | E41 | | | NSD | | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 211001 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 211001R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 10/5/2021

Count Categories

 $ASTM_>=5.0 \qquad ASTM \ Asbestos>=5.0 \mu m \qquad ASTM_0.5-5.0 \qquad ASTM \ Asbestos>=0.5 \mu m \ -<5.0 \mu m \qquad ASTM_Total \qquad ASTM \ Total \ Asbestos>=0.5 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0 \mu m \ -<5.0$

ASTMD_Other ASTM Libby-Other >0.5µm

Reviewed by:

Sierra Hinkle



LABORATORY CHAIN OF CUSTODY

| Project: | Pierce College Olym | pic South Abatement and Repairs | Project #: <u>40535.488</u> | | | | | | |
|--|------------------------------------|---|--|--------|--|--|--|--|--|
| Analysis re | quested: ASTM m | nicrovac dust sample | Date: 10/5/2021 | - | | | | | |
| Reling'd by | //Signature: | uce from | Date/Time: 10/5/2021 | - | | | | | |
| Received b | y/Signature:/ | Joan Will | Date/Time: 10/5/21/ | 6:07 | | | | | |
| | | Email ALL INVOICES to: seattleap@ | pbsusa.com | | | | | | |
| E-mail result Brian Sta Willem I Gregg M Mark Hi Tim Ogo | anford Mager Iiddaugh Iey | ☐ Prudy Stoudt-McRae ☐ Janet Murphy ☐ Kaitlin Soukup ☐ Claire Tsai ☐ Holly Tuttle | Mike Smith Ferman Fletcher Ryan Hunter Michelle Dodson | | | | | | |
| TURN AROU 1 Hour 2 Hours 4 Hours | | 24 Hours 48 Hours | □ 3 Days □ Other | - | | | | | |
| | | SAMPLE DATA FORM | | | | | | | |
| Sample # | Material | Locati | ation | | | | | | |
| MV578 | Dust - 100cm2 area | Mech Room 173 Johnson Control HVA | AC control RY11335 | Labcor | | | | | |
| MV579 | Dust - 100cm2 area | Mech Room 173 Johnson Control HVAC control RY11341 | | | | | | | |
| MV580 | Dust - 100cm2 area | Mech Room 173 Johnson Control HVAC control RY11406 | | | | | | | |
| MV581 | Dust - 100cm2 area | Mech Room 173 Johnson Control HVAC control RY11408 | | | | | | | |
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ASTM D 5755-09 - Microvac Final Report

Job Number: 211012 Report Number: 211012R01 Report Date: 10/14/2021

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample # Client Sample # and Description Analysis

211012 - S1 MV582 -ASTM D 5755-09 - Microvac Date Received: 10/11/2021

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

Analysis Notes

Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Sierra Hinkle



Volume Taken: 1.5 ml

Phone: (206) 781-0155 http://www.labcor.net

ASTM D 5755-09 - Microvac Final Report

Job Number: 211012 SEA Report Number: 211012R01
Client: PBS Engineering + Environmental Date Received: 10/11/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV582 Lab Filter Area (mm2): 289.38

Description: Grid Openings Analyzed: 4

Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.048

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s)Analysis DateMicroscopeMagnificationSH10/14/2021Hitachi 7000FA20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | | |
|--------------------------------|-----------------------------------|---|---|--|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | | |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | | |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | | |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Sierra Hinkle





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 211012 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 211012R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 10/11/2021

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV582 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Com | ment | Count Categories |
|-------|--------|--------|----------|----------|-------|-------------|--------|------------|---------------------------|----------|---------|------------|---------------------|
| G5 | 1 | F32 | | | NSD | | | | | | | | |
| G5 | 2 | E43 | | | NSD | | | | | | | | |
| G6 | 3 | F34 | | | NSD | | | | | | | | |
| G6 | 4 | E43 | | | NSD | | | | | | | | |
| Count | Catego | ries | | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM A | Asbestos | >=5.0µm | Α | STM_0.5-5.0 | ASTM A | sbestos >= | 0.5μm - <5.0 _l | μm AST | M_Total | ASTM Total | al Asbestos >=0.5μm |

Reviewed by:

ASTMD_Other

Sierra Hinkle

Technician/Analyst

ASTM Libby-Other >0.5μm



LABORATORY CHAIN OF CUSTODY

| | | pic South Abatement and Repairs | Project #:40535.488 | _ |
|--|------------------------------------|--|--|--------|
| Analysis re | quested: ASTM m | nicrovac dust sample | Date: 10/8/2021 | _ |
| Reling'd by | y/Signature: Pek | Stensland Pola Shalle | Date/Time: 10/8/2021 | |
| Received b | y/Signature: | The contract of the contract o | Date/Time: 15 11 21 0 | 930 |
| | | Email ALL INVOICES to: seattleap@p | bsusa.com | |
| E-mail resulting Brian State Brian State Willem I Gregg N Mark Hi Tim Ogo | anford Mager Aiddaugh Iey | ☐ Prudy Stoudt-McRae ☐ Janet Murphy ☐ Kaitlin Soukup ☐ Claire Tsai ☐ Holly Tuttle | Mike Smith Ferman Fletcher Ryan Hunter Michelle Dodson | _ |
| TURN AROU 1 Hour 2 Hours | | 24 Hours 48 Hours | □ 3 Days □ Other | |
| 4 Hours | LOD<1000 | | | |
| | | SAMPLE DATA FORM | | |
| Sample # | Material | Locatio | n | Lab |
| MV582 | Dust - 100cm2 area | Olympic South Room 285A Inside Guita | r | Labcor |
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ASTM D 5755-09 - Microvac Final Report

Job Number: 211028 Report Number: 211028R01 Client: PBS Engineering + Environmental Report Date: 10/21/2021

Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: **Sub Project:** Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample # Client Sample Number Date Received: **Analysis Analysis Notes**

211028 - S1 MV583 -ASTM D 5755-09 - Microvac Sample was ashed and hydrolyzed to 10/15/2021 reduce background. Some

fiberglass/MMVF fibers present in prep,

also present in analysis.

ASTM D 5755-09 - Microvac Sample was ashed and hydrolyzed to MV584 -211028 - S2 10/15/2021 reduce background.

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N.N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15.000 - 20.000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Kate March

Quality Control Officer



Analytical Sens. (struc/cm2): 19292

ASTM D 5755-09 - Microvac Final Report

Job Number: 211028 SEA Report Number: 211028R01
Client: PBS Engineering + Environmental Date Received: 10/15/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV583

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.005 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.005 Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 4823

Volume Taken: 0.1 ml

Analyst(s) Analysis Date Microscope Magnification SB 10/21/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | 9646 | 1167.166 - 34846.175 - Poisson | 2 |
| ASTM Asbestos >=5.0μm | < 4823 | 0 - 17792.047 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 4823 | 0 - 17792.047 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 9646 | 1167.166 - 34846.175 - Poisson | 2 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV584

Description:

Filter Fraction: 1

Residual Ash Vol: 20 ml

Client Sample No.: MV584

Aliquot Dilution: 0.00125

Average Grid Opening Area: 0.012

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.12

Begin Volume: 20 ml Volume Taken: 0.025 ml

Analyst(s)Analysis DateMicroscopeMagnificationSB10/21/2021JEOL-Sr 120020000

Concen-95% Confidence Structure Structure tration Interval Count¹ Type (struc/cm2) (struc/cm2) Prim/Total 19292 482.3 - 107495.024 - Poisson ASTM Asbestos >=0.5µm - <5.0µm ASTM Asbestos >=5.0µm < 19292 0 - 71168.188 - Poisson 0 ASTM Libby-Other >0.5µm < 19292 0 - 71168.188 - Poisson 0 ASTM Total Asbestos >=0.5µm 19292 482.3 - 107495.024 - Poisson

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 211028 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 211028R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 10/15/2021

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV583 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Element | s Comn | nent | Count Categories |
|----|-----|------|-----|----------|-------|---------|--------|--------|------------|---------|------------|-----------|-----------------------------|
| G5 | 1 | C24 | | | NSD | | | | | | | | |
| G5 | 2 | E23 | | | NSD | | | | | | | | |
| G5 | 3 | E24 | | | NSD | | | | | | | | |
| G5 | 4 | F23 | | | NSD | | | | | | | | |
| G5 | 5 | G23 | CDQ | 1 | Fiber | 0.56 | 0.1 | 5.6 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Item | Туре | ItemNu | ım | | Cor | firmed | Comment | |
| | | | | | Brig | htfield | J6697 | 3BF | | | | | |
| | | | | | Diffi | raction | J6697 | BDF | | SB | 10/21/2021 | 0.53nm RC | W SPACING |
| | | | | | Spe | ectra | J6697 | 3SP | | SB | 10/21/2021 | | |
| G5 | 6 | G24 | | | NSD | | | | | | | | |
| G5 | 7 | B31 | | | NSD | | | | | | | | |
| G5 | 8 | B32 | CD | 2 | Fiber | 0.54 | 0.1 | 5.4 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Item | Туре | ItemNu | ım | | Cor | firmed | Comment | |
| | | | | | Brig | htfield | J6697 | 4BF | | | | | |
| G5 | 9 | C31 | | | NSD | | | | | | | | |
| G5 | 10 | C32 | | | NSD | | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV584 Description:

| Gr | No. | Loc. | ID | Prim To | t Class | Length | Width | Aspect | Analyte | Element | ts Comr | nent | Count Categories |
|----|-----|------|-----|---------|---------|-----------|--------|--------|------------|---------|------------|-----------------|-----------------------------|
| G3 | 1 | C42 | | | NSD | | | | | | | | |
| G3 | 2 | E41 | | | NSD | | | | | | | | |
| G3 | 3 | E42 | | | NSD | | | | | | | | |
| G3 | 4 | F41 | | | NSD | | | | | | | | |
| G3 | 5 | F42 | | | NSD | | | | | | | | |
| G3 | 6 | G41 | | | NSD | | | | | | | | |
| G3 | 7 | G42 | | | NSD | | | | | | | | |
| G3 | 8 | H41 | | | NSD | | | | | | | | |
| G3 | 9 | H42 | CDQ | 1 | Matrix | 3.8 | 1.9 | 2 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Ite | mType | ItemNu | ım | | Co | nfirmed | Comment | |
| | | | | | Br | ightfield | J67006 | 6BF | | | | | |
| | | | | | Di | ffraction | J67006 | BDF | | SB | 10/21/2021 | 0.53nm RO DF | W SPACING, Very Faint |
| | | | | | Sp | ectra | J67006 | SSP | | SB | 10/21/2021 | | |
| G3 | 10 | H43 | | | NSD | | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 211028 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 211028R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 10/15/2021

Count Categories

 $ASTM_>=5.0 \qquad ASTM \ Asbestos>=5.0 \mu m \qquad ASTM_0.5-5.0 \qquad ASTM \ Asbestos>=0.5 \mu m - <5.0 \mu m \qquad ASTM_Total \qquad A$

ASTMD_Other ASTM Libby-Other >0.5µm

Reviewed by:

Klaren

Quality Control Officer



21/028 // LABORATORY CHAIN OF CUSTODY

| Project: | Pierce College Olym | pic South Abatement and Repairs Project #: 40535,488 | · · · · · · · · · · · · · · · · · · · |
|--------------|---------------------------------------|--|---------------------------------------|
| Analysis re | quested: ASTM n | nicrovac dust sample Date: 10/13/2021 | · . |
| Reling'd by | y/Signature: <i>(MU</i> | UCT-SUL Date/Time: 10/15/2 | 2021 |
| Received b | y/Signature: (1) | Date/Time: 10/15/2 | 14:20 pm |
| | | Email ALL INVOICES to: seattleap@pbsusa.com | * · |
| E-mail resul | | | |
| Brian Sta | | Prudy Stoudt-McRae Mike Smith | |
| ☐ Willem I | - , | Janet Murphy Ferman Fletcher | |
| ☐ Gregg M | Middaugh Iorr | ☐ Kaitlin Soukup ☐ Ryan Hunter ☐ Michelle Dodson | |
| ☐ Tim Ogo | - | Holly Tuttle | |
| | | : | . |
| TURN AROL | JND TIME: | <u> </u> | |
| 1 Hour | • | 24 Hours 3 Days | |
| 2 Hours | | ✓ 48 Hours ☐ Other | |
| 4 Hours | LOD<1000 | | |
| | | SAMPLE DATA FORM | |
| Sample # | Material | Location | Lab |
| MV583 | Dust - 100cm2 area | Cascade 432 supply fiberglass lined duct | Labcor |
| MV584 | Dust - 100cm2 area | Cascade 432 return fiberglass lined duct | |
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ASTM D 5755-09 - Microvac Final Report

Job Number: 211080 Report Number: 211080R01 Report Date: 11/3/2021

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Sample | # Client Sample Number | Analysis | Analysis Notes | Date Received: |
|----------------|------------------------|------------------|----------------|----------------|
| 211080 - S1 | MV585 - | ASTM D 5755-09 - | Microvac | 11/1/2021 |
| 211080 - S2 | MV586 - | ASTM D 5755-09 - | Microvac | 11/1/2021 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Quality Control Officer



Analytical Sens. (struc/cm2): 0

ASTM D 5755-09 - Microvac Final Report

Job Number: 211080 SEA Report Number: 211080R01

Client: PBS Engineering + Environmental Date Received: 11/1/2021

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV585

Description:

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 6

Filter Fraction: 1 Aliquot Dilution: 0.05 Average Grid Opening Area: 0.012

Residual Ash Vol: 20 ml Final Dilution: 0.05 Area Analyzed (mm2): 0.072

Begin Volume: 20 ml Analytical Sens. (struc/cm2): 803.833

Volume Taken: 1 ml

Analyst(s) Analysis Date Microscope Magnification SB 11/3/2021 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5µm | < 803.833 | 0 - 2965.341 - Poisson | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Client Sample No.: MV586

Sample Area/Mass/Volume (cm²): 0

Lab Filter Area (mm²): 289.38

Description: Grid Openings Analyzed: 6
Filter Fraction: 1 Aliquot Dilution: 0.075 Average Grid Opening Area: 0.012
Residual Ash Vol: 20 ml Final Dilution: 0.075 Area Analyzed (mm2): 0.072

Begin Volume: 20 ml Volume Taken: 1.5 ml

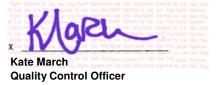
 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 SB
 11/3/2021
 JEOL-Sr 1200
 20000

 KM
 11/3/2021
 JEOL-Sr 1200
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.







ASTM D 5755-09 - Microvac Raw Data -**Final Report**

Ref. D5755-09 Job Number: 211080 SEA

Client: PBS Engineering + Environmental Report Number: 211080R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 11/1/2021

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV585 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G5 | 1 | E32 | | | NSD | | | | | | | |
| G5 | 2 | F33 | | | NSD | | | | | | | |
| G5 | 3 | F42 | | | NSD | | | | | | | |
| G6 | 4 | F44 | | | NSD | | | | | | | |
| G6 | 5 | G51 | | | NSD | | | | | | | |
| G6 | 6 | H62 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV586 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | B34 | | | NSD | | | | | | | |
| G1 | 2 | C44 | | | NSD | | | | | | | |
| G2 | 3 | F44 | | | NSD | | | | | | | |
| G2 | 4 | G52 | | | NSD | | | | | | | |
| G1 | 5 | F52 | | | NSD | | | | | | | |
| G1 | 6 | G51 | | | NSD | | | | | | | |

| Count Categories | | | | | | | | | | | | |
|------------------|-------------------------|--------------|--------------------------------|------------|-----------------------------|--|--|--|--|--|--|--|
| ASTM_>=5.0 | ASTM Asbestos >=5.0μm | ASTM_0.5-5.0 | ASTM Asbestos >=0.5μm - <5.0μm | ASTM_Total | ASTM Total Asbestos >=0.5µm | | | | | | | |
| ASTMD_Other | ASTM Libby-Other >0.5μm | | | | | | | | | | | |

Reviewed by:

Kate March Quality Control Officer



21080 LABORATORY CHAIN OF CUSTODY

| Project: <u>Pierce College Olympic South Abatement and Repairs</u> Analysis requested: <u>ASTM microvac dust sample</u> | | | | | Project #: <u>40535.488</u> | | |
|---|---------------------------------------|----------------------|--|----------------------|--|--------|--|
| | | | | | Date: 11/1//2021 | | |
| Reling'd by | y/Signature: <u>Peter</u> | itensiand Note Stunt | | Lund | Date/Time: 11/1/2021 | | |
| Received b | y/Signature: | · | ban | | Date/Time: 11 2 2 | Sam | |
| | 0 | Email ALL | INVOICES to: | seattleap@pbsus | | 1 | |
| E-mail resul | ts to: | : | 0.444 | - TOURING POPULATION | | | |
| Brian St | anford | | Prudy Stoudt-N | /IcRae | Mike Smith | | |
| Willem I | Mager | ☐ Janet Murphy | | | Ferman Fletcher | | |
| | Middaugh 💮 💮 💮 | | Kaitlin Soukup | | Ryan Hunter | | |
| Mark Hi | • | \boxtimes | Claire Tsai | | Michelle Dodson | | |
| Tim Ogden | | ☐ Holly Tuttle | | | | | |
| TURN AROL | JND TIME: | | | | | | |
| ☐ 1 Hour | | | 24 Hours | | 3 Days | | |
| 2 Hours | | \boxtimes | 48 Hours | | Other | ···· | |
| 4 Hours | LOD<1000 | | | | : | | |
| ····· | LOD 1000 | ··· | | | | | |
| | | | SAMPLE DA | TA FORM | | · | |
| Sample # | Material | | | | | Lab | |
| MV585 | Dust - 100cm2 area | Olympic So | uth Room 168 | Wooden Clock Ins | ide Case | Labcor | |
| M V586 | | Field Blank | | | ······································ | | |
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ASTM D 5755-09 - Microvac Final Report

Job Number: 220006 Report Number: 220006R02 Report Date: 1/10/2022

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

REVISED: The 0.5ml Aloquat was used during analysis, but incorrectly entered into the 0.25ml Aloquat

Report Note: in R01.

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|----------------|-------------------|
| 220006 - S1 | MV587 | ASTM D 5755-09 - Microvac | | 1/5/2022 |
| 220006 - S2 | MV588 | ASTM D 5755-09 - Microvac | | 1/5/2022 |
| 220006 - S3 | MV589 | ASTM D 5755-09 - Microvac | | 1/5/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Shauna Bjornso

Analyst



ASTM D 5755-09 - Microvac Final Report

Job Number: 220006 SEA Report Number: 220006R02
Client: PBS Engineering + Environmental Date Received: 1/5/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV587 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.0125 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.0125 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.12

Volume Taken: 0.25 ml Analytical Sens. (struc/cm2): 1929.2

Analyst(s) Analysis Date Microscope Magnification SB 1/10/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total | | |
|--------------------------------|-----------------------------------|---|-----------------------------------|--|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 3858.4 | 466.866 - 13938.47 - Poisson | 2 | | |
| ASTM Asbestos >=5.0μm | < 1929.2 | 0 - 7116.819 - Poisson | 0 | | |
| ASTM Libby-Other >0.5µm | < 1929.2 | 0 - 7116.819 - Poisson | 0 | | |
| ASTM Total Asbestos >=0.5μm | 3858.4 | 466.866 - 13938.47 - Poisson | 2 | | |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV588

Lab Filter Area (mm²): 289.38

Client Sample No.: MV588

Filter Fraction: 1

Residual Ash Vol: 20 ml

Begin Volume: 20 ml

Aliquot Dilution: 0.025

Final Dilution: 0.025

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.12

Volume Taken: 0.5 ml

Analytical Sens. (struc/cm2): 964.6

Analyst(s) Analysis Date Microscope Magnification
SB 1/10/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Asbestos >=5.0µm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220006 SEA Report Number: 220006R02
Client: PBS Engineering + Environmental Date Received: 1/5/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV589 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.12

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 0

Analyst(s)Analysis DateMicroscopeMagnificationSB1/10/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Shauna Bjornson

Analyst



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220006 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220006R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/5/2022

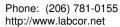
Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV587

| | | - | | | | | | | | | | |
|-----|-----|------|-----|----------|------------|---------|--------|--------|------------|----------|---------------|-----------------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G10 | 1 | F24 | | | NSD | | | | | | | |
| G10 | 2 | F22 | | | NSD | | | | | | | |
| G10 | 3 | G31 | | | NSD | | | | | | | |
| G10 | 4 | E34 | | | NSD | | | | | | | |
| G10 | 5 | C41 | | | NSD | | | | | | | |
| G10 | 6 | E41 | CDQ | 1 | Fiber | 4 | 0.1 | 40 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Item | Туре | ItemNu | m | | Confirm | ned Comm | ent |
| | | | | | Brig | htfield | J67398 | BBF | | | | |
| | | | | | Diffr | action | J67398 | BDF | | SB 1/1 | 0/2022 0.53nn | n ROW SPACING |
| | | | | | Spe | ctra | J67398 | SP | | | | |
| G11 | 7 | F32 | CD | 2 | Matrix 1-0 | 2.5 | 2.5 | 1 | Chrysotile | l | 1/0 | ASTM_0.5-5.0, ASTM_Total |
| G11 | 8 | G31 | | | NSD | | | | | | | |
| 311 | 9 | H34 | | | NSD | | | | | | | |
| 311 | 10 | H41 | | | NSD | | | | | | | |
| | | | | | | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV588

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G13 | 1 | E32 | | | NSD | | | | | | | |
| G13 | 2 | F31 | | | NSD | | | | | | | |
| G13 | 3 | F24 | | | NSD | | | | | | | |
| G13 | 4 | G23 | | | NSD | | | | | | | |
| G13 | 5 | G32 | | | NSD | | | | | | | |
| G14 | 6 | F44 | | | NSD | | | | | | | |
| G14 | 7 | G43 | | | NSD | | | | | | | |
| G14 | 8 | C34 | | | NSD | | | | | | | |
| G14 | 9 | E33 | | | NSD | | | | | | | |
| G14 | 10 | E41 | | | NSD | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220006 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220006R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/5/2022

Lab/Cor Sample No: S3 Client Sample No: MV589

| Gr | No. | Loc. | ID Prim Tot | Class Length | Width Aspect | Analyte | Elements | Comment | Count Categories |
|-------|--------|--------|------------------|--------------|------------------|-----------------|----------|------------|--------------------------|
| G4 | 1 | C34 | | NSD | | | | | |
| G4 | 2 | E33 | | NSD | | | | | |
| G4 | 3 | E41 | | NSD | | | | | |
| G4 | 4 | H44 | | NSD | | | | | |
| G4 | 5 | H52 | | NSD | | | | | |
| G5 | 6 | F42 | | NSD | | | | | |
| G5 | 7 | G41 | | NSD | | | | | |
| G5 | 8 | G33 | | NSD | | | | | |
| G5 | 9 | C44 | | NSD | | | | | |
| G5 | 10 | E43 | | NSD | | | | | |
| Count | Catego | ries | | | | | | | |
| ASTM | >=5.0 | ASTM A | Ashestos >=5 0um | ASTM 0.5-5.0 | ASTM Ashestos >: | =0.5um - <5.0ui | m ASTM | Total ASTN | / Total Asbestos >=0 5µm |

Reviewed by:

ASTM Libby-Other >0.5μm

ASTMD_Other

Shauna Bjornson Analyst

Page 5 of 5





LABORATORY CHAIN OF CUSTODY

| Project: <u>Pierc</u> | <u>e College Olympic S</u> | Project #: <u>40535,488</u> | | | |
|---------------------------------------|---|---|---------------------------------|--|--|
| Analysis reque | sted: <u>ASTM micro</u> | vac dust sample | Date: 1/5/2022 | ************************************* | |
| Relinq'd by/Sig | gnature: (Mila) | TORI | Date/Time: 1/5/202 | 7 | |
| Received by/Si | | Bo | Date/Time: 1/5/22_ | 50m | |
| | | - I AL INVOISES | | . 24 1 | |
| E-mail results to | | nail ALL INVOICES to: seattleap@ | ppsusa.com | | |
| Willem Mage | | Janet Murphy | ☐ Holly Tuttle | | |
| | | Kaitlin Soukup | Mike Smith | | |
| Mark Hiley | .ug.: | Allison Welch | Ferman Fletcher | | |
| ☐ Tim Ogden | | ☐ Toan Nguyen | Cameron Budnick | | |
| Ryan Hunter | | Peter Stensland | Kameron DeMonni | n | |
| Prudy Stoud | | Claire Tsai | T Kanteson Belvionin | " | |
| | | E. Ground (SE) | | . | |
| TURN AROUND | TIME: | | | | |
| ☐ 1 Hour | | 24 Hours | 🔀 3 Days | | |
| 2 Hours | | 48 Hours | Other | | |
| 4 Hours | | | | | |
| | LOD <1000 | | | | |
| | | SAMPLE DATA FORM | | ·. | |
| Sample # | Material | Loca | tion | Lab | |
| MV587 | Dust area 100cm ² | Olympic South, East Elevation sub | grade power vault fire conduit | Labcor | |
| MV588 | Dust area 100cm ² | Olympic South, East Elevation sub | grade power vault power conduit | • | |
| MV589 | | Field Blank | | | |
| · · · · · · · · · · · · · · · · · · · | | | | | |
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| | | Fax USPS | Email | | |
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ASTM D 5755-09 - Microvac Final Report

Job Number: 220005 Report Number: 220005R01 Client: PBS Engineering + Environmental **Report Date: 1/6/2022**

Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Num. Client Sample Number Analysis Analysis Notes Date Received:

220005 - S1 MV590 ASTM D 5755-09 - Microvac Many Mg-Al-Si fibers present 1/5/2022

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Sierra Hinkle Technician/Analyst



ASTM D 5755-09 - Microvac Final Report

Job Number: 220005 SEA Report Number: 220005R01
Client: PBS Engineering + Environmental Date Received: 1/5/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV590 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.0025 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.0025 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.12

Volume Taken: 0.05 ml Analytical Sens. (struc/cm2): 9646

 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 SH
 1/6/2022
 Hitachi 7000FA
 20000

 SB
 1/6/2022
 JEOL-Sr 1200
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total | | |
|--------------------------------|-----------------------------------|---|-----------------------------------|--|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 9646 | 0 - 35584.094 - Poisson | 0 | | |
| ASTM Asbestos >=5.0μm | 9646 | 241.15 - 53747.512 - Poisson | 1 | | |
| ASTM Libby-Other >0.5μm | < 9646 | 0 - 35584.094 - Poisson | 0 | | |
| ASTM Total Asbestos >=0.5μm | 9646 | 241.15 - 53747.512 - Poisson | 1 | | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Sierra Hinkle

Technician/Analyst





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220005 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220005R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/5/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV590

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Com | ment | Count Categories |
|-------|---------|------|-----------|------------|--------|-------------|--------|------------|----------------|-------------|----------|-----------|---------------------------|
| G8 | 1 | C24 | | | NSD | | | | | | | | |
| G8 | 2 | E23 | | | NSD | | | | | | | | |
| G8 | 3 | F23 | | | NSD | | | | | | | | |
| G8 | 4 | F24 | | | NSD | | | | | | | | |
| G8 | 5 | G23 | | | NSD | | | | | | | | |
| G8 | 6 | G24 | | | NSD | | | | | | | | |
| G8 | 7 | H23 | | | NSD | | | | | | | | |
| G8 | 8 | H24 | | | NSD | | | | | | | | |
| G7 | 9 | C33 | CDQ | 1 | Bundle | 12.4 | 0.7 | 17.7 | Chrysotile | Mg, S | i | | ASTM_>=5.0, ASTM_Total |
| | | | | | Ite | emType | ItemNı | ım | | Conf | firmed | Comment | |
| | | | | | D | iffraction | F6739 | 1DF | | SH | 1/6/2022 | 0.53nm R0 | OW SPACING |
| | | | | | S | Spectra | F6739 | 1SP | | SH | 1/6/2022 | | |
| | | | | | В | Brightfield | F6739 | 1BF | | | | | |
| G7 | 10 | C34 | | | NSD | | | | | | | | |
| Count | Catego | ries | | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM | Asbestos | >=5.0μm | AS | STM_0.5-5.0 | ASTM A | sbestos >= | 0.5μm - <5.0μn | n AST | M_Total | ASTM Tota | Asbestos >=0.5μm |
| ASTM | D_Other | ASTM | Libby-Oth | ner >0.5µm | | | | | • | | | | • |
| | | | | | | | | | | | | | |

Reviewed by:

Sierra Hinkle Technician/Analyst



LABORATORY CHAIN OF CUSTODY

| Project: <u>Pierce</u> | College Olympic Se | outh Abatement and Repairs | Project #: 40535,488 | | | | |
|------------------------|------------------------------|--|---|----------------|--|--|--|
| Analysis reques | ted: <u>ASTM micro</u> | /ac dust sample | Date: 1/5/2022 | | | | |
| Relinq'd by/Sig | nature: <i>UUUL</i> | et-dae | Date/Time: 1/5/20 | 22 | | | |
| Received by/Sig | /) | -kgo | Date/Time: 1 S 22 | 5pm | | | |
| | En | ıail A∐ INVOICES to: <u>seattleap@</u> | pbsusa.com | | | | |
| E-mail results to: | | _ | <u>_</u> . | | | | |
| Willem Mager | | Janet Murphy | Holly Tuttle | | | | |
| Gregg Midda | ıgh | Kaitlin Soukup | Mike Smith | | | | |
| Mark Hiley | | Allison Welch | Ferman Fletcher | | | | |
| Tim Ogden | | Toan Nguyen | Cameron Budnick | | | | |
| Ryan Hunter | | Peter Stensland | Kameron DeMonni | n | | | |
| Prudy Stoudt- | -McRae | Claire Tsai | | | | | |
| TURN AROUND 1 | reasc. | | | | | | |
| _ | IMIE: | 24 Hours | 3 Days | | | | |
| 1 Hour | | 48 Hours | Other RUSH | | | | |
| 2 Hours | | L 46 Hours | ☑ Other KOSH | | | | |
| 4 Hours | LOD <1000 | | | | | | |
| | | SAMPLE DATA FORM | | | | | |
| Sample # | Material | Loca | tion | Lab | | | |
| MV590 | Dust area 100cm ² | East level 3 stairweil west wall cav | ity I-beam from Level 3 subfloor | Labcor | | | |
| | | | · · · · · · · · · · · · · · · · · · · | ~~~ | | | |
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| | | Fax USPS | | | | | |
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ASTM D 5755-09 - Microvac Final Report

Job Number: 220014 Report Number: 220014R01 Report Date: 1/10/2022

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|----------------|-------------------|
| 220014 - S1 | MV591 | ASTM D 5755-09 - Microvac | | 1/7/2022 |
| 220014 - S2 | MV592 | ASTM D 5755-09 - Microvac | | 1/7/2022 |
| 220014 - S3 | MV593 | ASTM D 5755-09 - Microvac | | 1/7/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Shauna Bjornso Analyst

Page 1 of 6



SB

Phone: (206) 781-0155 http://www.labcor.net

Analytical Sens. (struc/cm2): 964.6

ASTM D 5755-09 - Microvac Final Report

Report Number: 220014R01 Job Number: 220014 SEA Date Received: 1/7/2022 Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm2): 100

20000

Client Sample No.: MV591 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 10 Residual Ash Vol: 20 ml Final Dilution: 0.025 Average Grid Opening Area: 0.012 Begin Volume: 20 ml Area Analyzed (mm2): 0.12 Volume Taken: 0.5 ml

Analysis Date Magnification Analyst(s) Microscope

JEOL-Sr 1200

1/7/2022

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Sample Area/Mass/Volume (cm²): 100 Lab/Cor Sample No.: S2 Client Sample No.: MV592 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 **Grid Openings Analyzed:** 10 Residual Ash Vol: 20 ml Final Dilution: 0.025 Average Grid Opening Area: 0.012 Begin Volume: 20 ml Area Analyzed (mm2): 0.12 Volume Taken: 0.5 ml Analytical Sens. (struc/cm2): 964.6

Analyst(s) **Analysis Date** Microscope Magnification SB 1/7/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 | |
| ASTM Asbestos >=5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220014 SEA Report Number: 220014R01
Client: PBS Engineering + Environmental Date Received: 1/7/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV593 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.005 Grid Openings Analyzed: 49

Residual Ash Vol: 20 ml Final Dilution: 0.005 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.588

Volume Taken: 0.1 ml Analytical Sens. (struc/cm2): 984.286

 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 SB
 1/7/2022
 JEOL-Sr 1200
 20000

 SB
 1/10/2022
 JEOL-Sr 1200
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 984.286 | 0 - 3631.03 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 984.286 | 0 - 3631.03 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 984.286 | 0 - 3631.03 - Poisson | 0 |
| ASTM Total Asbestos >=0.5µm | < 984.286 | 0 - 3631.03 - Poisson | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Shauna Bjornson Analyst

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220014 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220014R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/7/2022

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: MV591

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G10 | 1 | F42 | | | NSD | | | | | | | |
| G10 | 2 | G41 | | | NSD | | | | | | | |
| G10 | 3 | G33 | | | NSD | | | | | | | |
| G10 | 4 | E32 | | | NSD | | | | | | | |
| G10 | 5 | E24 | | | NSD | | | | | | | |
| G11 | 6 | F42 | | | NSD | | | | | | | |
| G11 | 7 | G41 | | | NSD | | | | | | | |
| G11 | 8 | G33 | | | NSD | | | | | | | |
| G11 | 9 | H51 | | | NSD | | | | | | | |
| G11 | 10 | H43 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV592

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G10 | 1 | E42 | | | NSD | | | | | | | |
| G10 | 2 | F41 | | | NSD | | | | | | | |
| G10 | 3 | F33 | | | NSD | | | | | | | |
| G10 | 4 | G42 | | | NSD | | | | | | | |
| G10 | 5 | H41 | | | NSD | | | | | | | |
| G11 | 6 | F44 | | | NSD | | | | | | | |
| G11 | 7 | G43 | | | NSD | | | | | | | |
| G11 | 8 | G51 | | | NSD | | | | | | | |
| G11 | 9 | E32 | | | NSD | | | | | | | |
| G11 | 10 | F31 | | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

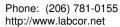
Job Number: 220014 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220014R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/7/2022

Lab/Cor Sample No: S3
Client Sample No: MV593

| (| lient | Sample N | io: IVI V | 7593 | | | | | | | | |
|-----|-------|----------|-----------|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G10 | 1 | C24 | | | NSD | | | | | | | |
| G10 | 2 | F24 | | | NSD | | | | | | | |
| G10 | 3 | G23 | | | NSD | | | | | | | |
| G10 | 4 | F32 | | | NSD | | | | | | | |
| G10 | 5 | E32 | | | NSD | | | | | | | |
| G11 | 6 | K43 | | | NSD | | | | | | | |
| G11 | 7 | H44 | | | NSD | | | | | | | |
| G11 | 8 | H43 | | | NSD | | | | | | | |
| G11 | 9 | G44 | | | NSD | | | | | | | |
| G11 | 10 | G43 | | | NSD | | | | | | | |
| G10 | 11 | C34 | | | NSD | | | | | | | |
| G10 | 12 | E33 | | | NSD | | | | | | | |
| G10 | 13 | F33 | | | NSD | | | | | | | |
| G10 | 14 | G34 | | | NSD | | | | | | | |
| G10 | 15 | H33 | | | NSD | | | | | | | |
| G10 | 16 | H34 | | | NSD | | | | | | | |
| G10 | 17 | K33 | | | NSD | | | | | | | |
| G10 | 18 | K34 | | | NSD | | | | | | | |
| G10 | 19 | K41 | | | NSD | | | | | | | |
| G10 | 20 | H41 | | | NSD | | | | | | | |
| G10 | 21 | F42 | | | NSD | | | | | | | |
| G10 | 22 | F41 | | | NSD | | | | | | | |
| G10 | 23 | E42 | | | NSD | | | | | | | |
| G10 | 24 | E41 | | | NSD | | | | | | | |
| G10 | 25 | C42 | | | NSD | | | | | | | |
| G10 | 26 | C41 | | | NSD | | | | | | | |
| G10 | 27 | B44 | | | NSD | | | | | | | |
| G10 | 28 | C43 | | | NSD | | | | | | | |
| G10 | 29 | C44 | | | NSD | | | | | | | |
| G10 | 30 | E43 | | | NSD | | | | | | | |
| G10 | 31 | E44 | | | NSD | | | | | | | |
| G10 | 32 | F44 | | | NSD | | | | | | | |
| G10 | 33 | G43 | | | NSD | | | | | | | |
| G10 | 34 | G44 | | | NSD | | | | | | | |
| G11 | 35 | C33 | | | NSD | | | | | | | |
| G11 | 36 | C34 | | | NSD | | | | | | | |
| G11 | 37 | F33 | | | NSD | | | | | | | |
| G11 | 38 | F34 | | | NSD | | | | | | | |
| G11 | 39 | G33 | | | NSD | | | | | | | |
| G11 | 40 | G34 | | | NSD | | | | | | | |
| G11 | 41 | F42 | | | NSD | | | | | | | |
| G11 | 42 | G41 | | | NSD | | | | | | | |
| | | | | | | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220014 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220014R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/7/2022

Lab/Cor Sample No: S3 Client Sample No: MV593

| Gr | No. | Loc. | ID | Prim To | t Cla | ass Le | ngth | Width | Aspect | Analyte | Elem | ents | Comme | ent | Count C | ategories |
|-------|--------|------|----------|-----------|-------|---------|-------|--------|------------|--------------|------|-------|---------|-----------|------------|-----------|
| G11 | 43 | G42 | | | NS | SD | | | | | | | | | | |
| G11 | 44 | H41 | | | NS | SD | | | | | | | | | | |
| G11 | 45 | C51 | | | NS | SD | | | | | | | | | | |
| G11 | 46 | C52 | | | NS | SD | | | | | | | | | | |
| G11 | 47 | E51 | | | NS | SD | | | | | | | | | | |
| G11 | 48 | E52 | | | NS | SD | | | | | | | | | | |
| G11 | 49 | G51 | | | NS | SD | | | | | | | | | | |
| Count | Catego | ries | | | | | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM | Asbestos | s >=5.0μm | | ASTM_0. | 5-5.0 | ASTM A | sbestos >= | 0.5μm - <5.0 | μm | ASTM_ | Total A | STM Total | Asbestos > | -=0.5μm |

Reviewed by:

ASTMD_Other

x John By

ASTM Libby-Other $> 0.5 \mu m$

Shauna Bjornson

Analyst



LABORATORY CHAIN OF CUSTODY

220014

| llege Olympic South Abater | ment and Repairs | Project #: 40535.488 | - | | | |
|--|---|---|---|--|--|--|
| ASTM microvac dust sar | nple | Date: 1/6/2021 22 | | | | |
| e: Toan Nguyen | | Date/Time: 1/7/2021 | 22 | | | |
| re: hugart | le | Date/Time: 1/2/22 | 083 | | | |
| Email ALL INVO | DICES to: seattleap@pbsu | usa.com | | | | |
| ☐ Jane ☐ Kaitli ☐ Clair ☐ Holly ☐ 24 H ☐ 48 H | t Murphy in Soukup e Tsai v Tuttle ours | Mike Smith Ferman Fletcher Ryan Hunter Toan Nguyen 3 Days Other | | | | |
| SAN | IPLE DATA FORM | | | | | |
| al | Location | | Lab | | | |
| cm2 Level 3 Above gypsur | Level 3 Above gypsum ceiling between framing and I-beam west wall north | | | | | |
| cm2 Level 3 Above gypsur | n ceiling between framing a | and I-beam North central area | | | | |
| cm2 Level 3 Above gypsun | n ceiling between framing a | and I-beam east wall north | | | | |
| | | | | | | |
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| | | | | | | |
| I | ASTM microvac dust san re: Toan Nguyen Fre: hespeak Email ALL INVO Prud Jane Kaitli Claire Holly 24 H 48 H D<1000 SAN rial Ocm2 Level 3 Above gypsun Ocm2 Level 3 Above gypsun | Email ALL INVOICES to: seattleap@pbst Prudy Stoudt-McRae Janet Murphy Kaitlin Soukup Claire Tsai Holly Tuttle 24 Hours 48 Hours D<1000 SAMPLE DATA FORM Ial Location Dcm2 Level 3 Above gypsum ceiling between framing and com2 Com2 Level 3 Above gypsum ceiling between framing and com2 Com2 Level 3 Above gypsum ceiling between framing and com2 Com2 Level 3 Above gypsum ceiling between framing and com2 Com2 Level 3 Above gypsum ceiling between framing and com2 Com2 Level 3 Above gypsum ceiling between framing and com2 Com2 Level 3 Above gypsum ceiling between framing and com2 Com2 Level 3 Above gypsum ceiling between framing and com2 Com2 Level 3 Above gypsum ceiling between framing and com2 Com3 Com4 Com4 Com4 Com5 Com5 Com5 Com5 Com5 Com6 Com6 Com6 Com6 Com6 Com6 Com7 Com7 Com7 Com8 Com7 Com7 Com8 Com8 Com8 Com8 Com8 Com8 | ASTM microvac dust sample Date: 1/6/2021 22 Tee: Toan Nguyen Date/Time: 1/7/2021 Date/Time: 1/22 Email ALL INVOICES to: seattleap@pbsusa.com Prudy Stoudt-McRae Mike Smith Ferman Fletcher Ryan Hunter Toan Nguyen Holly Tuttle Toan Nguyen Toan Nguyen D<1000 SAMPLE DATA FORM Tial Location Dcm2 Level 3 Above gypsum ceiling between framing and I-beam west wall north Dcm2 Level 3 Above gypsum ceiling between framing and I-beam North central area | | | |



ASTM D 5755-09 - Microvac Final Report

Job Number: 220024 Report Number: 220024R01 Report Date: 1/12/2022

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|----------------|-------------------|
| 220024 - S1 | MV594 | ASTM D 5755-09 - Microvac | | 1/11/2022 |
| 220024 - S2 | MV595 | ASTM D 5755-09 - Microvac | | 1/11/2022 |
| 220024 - S3 | MV596 | ASTM D 5755-09 - Microvac | | 1/11/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Shauna Bjornso Analyst

Page 1 of 5



ASTM D 5755-09 - Microvac Final Report

Job Number: 220024 SEA Report Number: 220024R01
Client: PBS Engineering + Environmental Date Received: 1/11/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV594 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.048

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s) Analysis Date Microscope Magnification
SB 1/12/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV595

Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.0125 Grid Openings Analyzed: 20
Residual Ash Vol: 20 ml Final Dilution: 0.0125 Average Grid Opening Area: 0.012
Begin Volume: 20 ml Area Analyzed (mm2): 0.24
Volume Taken: 0.25 ml Analytical Sens. (struc/cm2): 964.6

Analyst(s) Analysis Date Microscope Magnification
SB 1/12/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | | |
|--------------------------------|-----------------------------------|---|---|--|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 | | |
| ASTM Asbestos >=5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 | | |
| ASTM Libby-Other >0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 | | |
| ASTM Total Asbestos >=0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 | | |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220024 SEA Report Number: 220024R01
Client: PBS Engineering + Environmental Date Received: 1/11/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV596 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.12

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 0

Analyst(s)Analysis DateMicroscopeMagnificationSB1/12/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5µm | NA | Not Applicable | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Shauna Bjornson

Analyst



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220024 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220024R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/11/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV594

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | G34 | | NSD | | | | | | | |
| G4 | 2 | H33 | | NSD | | | | | | | |
| G5 | 3 | E44 | | NSD | | | | | | | |
| G5 | 4 | F43 | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV595

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G10 | 1 | C31 | | | NSD | | | | | | | |
| G10 | 2 | C32 | | | NSD | | | | | | | |
| G10 | 3 | E31 | | | NSD | | | | | | | |
| G10 | 4 | E32 | | | NSD | | | | | | | |
| G10 | 5 | F31 | | | NSD | | | | | | | |
| G10 | 6 | C61 | | | NSD | | | | | | | |
| G10 | 7 | C62 | | | NSD | | | | | | | |
| G10 | 8 | E61 | | | NSD | | | | | | | |
| G10 | 9 | E62 | | | NSD | | | | | | | |
| G10 | 10 | F61 | | | NSD | | | | | | | |
| G11 | 11 | F23 | | | NSD | | | | | | | |
| G11 | 12 | F24 | | | NSD | | | | | | | |
| G11 | 13 | G23 | | | NSD | | | | | | | |
| G11 | 14 | G24 | | | NSD | | | | | | | |
| G11 | 15 | H23 | | | NSD | | | | | | | |
| G11 | 16 | C33 | | | NSD | | | | | | | |
| G11 | 17 | C34 | | | NSD | | | | | | | |
| G11 | 18 | E33 | | | NSD | | | | | | | |
| G11 | 19 | E34 | | | NSD | | | | | | | |
| G11 | 20 | F33 | | | NSD | | | | | | | |

Lab/Cor Sample No: S3
Client Sample No: MV596

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | E34 | | NSD | | | | | | | |
| G4 | 2 | F32 | | NSD | | | | | | | |
| G4 | 3 | G31 | | NSD | | | | | | | |
| G4 | 4 | C33 | | NSD | | | | | | | |
| G4 | 5 | E33 | | NSD | | | | | | | |
| G5 | 6 | F24 | | NSD | | | | | | | |
| G5 | 7 | G23 | | NSD | | | | | | | |
| G5 | 8 | G31 | | NSD | | | | | | | |
| G5 | 9 | E22 | | NSD | | | | | | | |
| G5 | 10 | F21 | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data -**Final Report**

Ref. D5755-09 Job Number: 220024 SEA

Client: PBS Engineering + Environmental Report Number: 220024R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/11/2022

Count Categories

ASTM_>=5.0 ASTM Asbestos $>=5.0 \mu m$ $ASTM_0.5\text{--}5.0 \quad ASTM \ Asbestos >= 0.5 \mu m \ \text{--} < 5.0 \mu m$ ASTM_Total ASTM Total Asbestos $>=0.5\mu m$

ASTMD_Other ASTM Libby-Other >0.5μm

Reviewed by:

Analyst



220024 LABORATORY CHAIN OF CUSTODY

| Analysis Relinq'd Received E-mail ress Brian S Willem | by/Signature: by | mpic South Abatement and Repairs Imicrovac dust sample | 3:30PA |
|--|--|--|--------|
| TURN ARO 1 Hour 2 Hour 4 Hour | S | | |
| C1- # | | SAMPLE DATA FORM | |
| Sample # MV594 | Material Dust - 100cm2 area | Location Champio North 400 in the Edit | Lab |
| MV595 MV596 | Dust - 100cm2 area | Olympic North 106 inside Fire panel Olympic North 106 SE area top of elevator cart lights panel below Panel 1HN2 Field Blank | Labco |
| | | | |
| | | Reviewed by: | |

Results Released:

Invoice Released:

Verbals

USPS

USPS

Email

Fax

Fax



ASTM D 5755-09 - Microvac Final Report

Job Number: 220056 Report Number: 220056R01 Report Date: 1/25/2022

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Client Sample Number Analysis **Analysis Notes** Lab/Cor Num. Date Received: 220056 - S1 MV597 ASTM D 5755-09 - Microvac 1/21/2022 220056 - S2 MV598 ASTM D 5755-09 - Microvac 1/21/2022

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Sierra Hinkle Technician/Analyst



ASTM D 5755-09 - Microvac Final Report

Job Number: 220056 SEA Report Number: 220056R01
Client: PBS Engineering + Environmental Date Received: 1/21/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV597 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.025 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.12

Volume Taken: 0.5 ml Analytical Sens. (struc/cm2): 964.6

Analyst(s) Analysis Date Microscope Magnification
SH 1/25/2022 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 7716.8 | 3331.728 - 15205.954 - Poisson | 8 |
| ASTM Asbestos >=5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 7716.8 | 3331.728 - 15205.954 - Poisson | 8 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV598

Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.025 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.12

Volume Taken: 0.5 ml Analytical Sens. (struc/cm2): 964.6

Analyst(s) Analysis Date Microscope Magnification
SH 1/25/2022 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 2893.8 | 597.087 - 8456.648 - Poisson | 3 |
| ASTM Asbestos >=5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 2893.8 | 597.087 - 8456.648 - Poisson | 3 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Sierra Hinkle

Technician/Analyst



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220056 SEA Ref. D5755-09

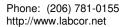
Client: PBS Engineering + Environmental Report Number: 220056R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/21/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV597

| Gr | No. | Loc. | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-----|-----|------|-----|------|-----|------------|---------|--------|--------|------------|---------------------------|----------------------------|-----------------------------|
| G10 | 1 | C31 | ADQ | 1 | | Fiber | 2.6 | 0.51 | 5.1 | Actinolite | Mg, Al, Si, Ca, Fe | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | | Item | Туре | ItemNu | ım | | Confirm | ied Comme | nt |
| | | | | | | Diffr | action | F6747 | 0DF | | SH 1/2 | 5/2022 0.53nm | ROW SPACING |
| | | | | | | Spe | ctra | F6747 | 0SP | | SH 1/2 | 5/2022 | |
| | | | | | | Brig | htfield | F6747 | 0BF | | | | |
| G10 | 2 | C32 | | | | NSD | | | | | | | |
| G10 | 3 | E32 | AQ | 2 | | Fiber | 1.2 | 0.18 | 6.7 | Actinolite | Mg, Al, Si, Ca, Mn, Fe | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | E32 | CDQ | 3 | | Fiber | 2.88 | 0.12 | 24 | Chrysotile | , , | • | ASTM_0.5-5.0, |
| טוג | 3 | E32 | CDQ | 3 | | ribei | 2.00 | 0.12 | 24 | Chrysothe | ivig, Si, Fe | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | | Item | Туре | ItemNu | ım | | Confirm | ed Comme | nt |
| | | | | | | Diffr | action | F6747 | 1DF | | SH 1/2 | 5/2022 0.53nm | ROW SPACING; Faint D |
| | | | | | | Spe | ctra | F6747 | 1SP | | SH 1/2 | 5/2022 | |
| | | | | | | Brig | htfield | F6747 | 1BF | | | | |
| G10 | 4 | E31 | | | | NSD | | | | | | | |
| G10 | 5 | F31 | | | | NSD | | | | | | | |
| G11 | 6 | C31 | CQ | 4 | | Matrix 1-0 | 4.8 | 4 | 1.2 | Chrysotile | Mg, Si, Fe | Al from matrix particulate | ASTM_0.5-5.0, ASTM_Total |
| G11 | 6 | C31 | ADQ | 5 | | Fiber | 2.5 | 0.4 | 6.2 | Tremolite | Mg, Si, Ca, Fe | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | | Item | Туре | ItemNu | ım | | Confirm | ed Comme | nt |
| | | | | | | Diffr | action | F6747 | 2DF | | SH 1/2 | 5/2022 0.53nm | ROW SPACING |
| | | | | | | Spe | ctra | F6747 | 2SP | | SH 1/2 | 5/2022 | |
| | | | | | | Brig | htfield | F6747 | 2BF | | | | |
| G11 | 6 | C31 | СМ | 6 | | Matrix 1-0 | 3 | 2.8 | 1.1 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 6 | C31 | AQ | 7 | | Matrix 1-0 | 1.6 | 1 | 1.6 | Actinolite | Mg, Al, Si, Ca, Fe | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 7 | C32 | AQ | 8 | | Fiber | 1.5 | 0.2 | 7.5 | Actinolite | Mg, Al, Si, Ca, Fe | | ASTM_0.5-5.0, ASTM_Total |
| 311 | 8 | E31 | | | | NSD | | | | | * | | |
| G11 | 9 | E32 | | | | NSD | | | | | | | |
| G11 | 10 | F31 | | | | NSD | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220056 SEA Ref. D5755-09

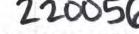
Client: PBS Engineering + EnvironmentalReport Number: 220056R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 1/21/2022

Lab/Cor Sample No: S2 Client Sample No: MV598

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-------|---------|------|-----------|------------|---------------|-----------|--------|------------|-----------------|-----------------------|------------------|-----------------------------|
| G7 | 1 | E33 | | | NSD | | | | | | | |
| G7 | 2 | E34 | | | NSD | | | | | | Actinolite fiber | |
| | | | | | | | | | | | found, 5:1 ratio | |
| G7 | 3 | F33 | | | NSD | | | | | | | |
| G7 | 4 | F34 | | | NSD | | | | | | | |
| G7 | 5 | G42 | | | NSD | | | | | | | |
| G8 | 6 | C31 | | | NSD | | | | | | | |
| G8 | 7 | C32 | | | NSD | | | | | | | |
| G8 | 8 | E31 | | | NSD | | | | | | | |
| G8 | 9 | C41 | ADQ | 1 | Fiber | 2.28 | 0.4 | 5.7 | Actinolite | Mg, Al, Si, Ca, Fe | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Item | Туре | ItemNu | m | | Confirm | ed Comment | |
| | | | | | Diffi | action | F67473 | BDF | | SH 1/2 | 5/2022 0.53nm F | OW SPACING |
| | | | | | Spe | ctra | F67473 | SP | | SH 1/2 | 5/2022 | |
| | | | | | Brig | htfield | F67473 | BBF | | | | |
| G8 | 10 | C42 | AQ | 2 | Fiber | 1.8 | 0.3 | 6 | Actinolite | Mg, Al, Si, Ca, Fe | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 10 | C42 | AQ | 3 | Matrix | 3 | 0.6 | 5 | Actinolite | Mg, Al, Si, Ca, Fe | | ASTM_0.5-5.0, ASTM_Total |
| Count | Catego | ries | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM | Asbestos | s>=5.0μm | AST | M_0.5-5.0 | ASTM A | sbestos >= | :0.5μm - <5.0μr | n ASTM_ | Total ASTM Tot | al Asbestos >=0.5μm |
| ASTM | D_Other | ASTM | Libby-Oth | ner >0.5µm | - | | | | | | | |

Reviewed by:

Sierra Hinkle Technician/Analyst





LABORATORY CHAIN OF CUSTODY

| lerce conege orymp | ic South Abatement and Repairs | Project #: 40535.488 | |
|--|--|---|---|
| uested: ASTM m | icrovac dust sample | Date: 1/20/2021 | _ |
| //1/ | / / | Date/Time: 1/25/2021 | |
| /Signature: | Jura Jankin | | 10.00 |
| 1 | Email ALL INVOICES to: seattleap@p | bsusa.com | |
| to: ford ager ddaugh y en | ☐ Prudy Stoudt-McRae ☐ Janet Murphy ☐ Kaitlin Soukup ☐ Claire Tsai ☐ Holly Tuttle | | |
| LOD<1000 | 24 Hours 48 Hours | ☐ 3 Days ☐ Other | -1 |
| | SAMPLE DATA FORM | | |
| Material | | | Lab |
| Dust - 100cm2 area | | | Labcor |
| Dust - 100cm2 area | Olympic South, West Elevation east su | bgrade power vault cable | |
| | | | |
| | | | |
| | Signature: Clair /Signature: Cl | ## Figure 1. ** Figure Figure 2. ** Ford | Signature: Date/Time: 1/25/2021 Comparison |



ASTM D 5755-09 - Microvac Final Report

Job Number: 220124 Report Number: 220124R01 Report Date: 2/11/2022

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: **Sub Project:** Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Client Sample Number Analysis **Analysis Notes** Lab/Cor Num. Date Received: 220124 - S1 MV599 ASTM D 5755-09 - Microvac 2/10/2022 220124 - S2 MV600 ASTM D 5755-09 - Microvac 2/10/2022

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Kate March Quality Control Officer



ASTM D 5755-09 - Microvac Final Report

Job Number: 220124 SEA Report Number: 220124R01
Client: PBS Engineering + Environmental Date Received: 2/10/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV599 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.005 Grid Openings Analyzed: 10

Residual Ash Vol: 100 ml Final Dilution: 0.005 Average Grid Opening Area: 0.012

Begin Volume: 100 ml Area Analyzed (mm2): 0.12

Volume Taken: 0.5 ml Analytical Sens. (struc/cm2): 4823

Analyst(s) Analysis Date Microscope Magnification
KM 2/11/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | 125398 | 81909.009 - 183741.831 - Poisson | 26 |
| ASTM Asbestos >=5.0μm | 4823 | 120.575 - 26873.756 - Poisson | 1 |
| ASTM Libby-Other >0.5μm | < 4823 | 0 - 17792.047 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 130221 | 85815.639 - 189466.732 - Poisson | 27 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV600

Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

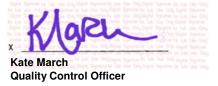
Begin Volume: 20 ml Area Analyzed (mm2): 0.048

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s)Analysis DateMicroscopeMagnificationSB2/10/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | 803.833 | 20.096 - 4478.959 - Poisson | 1 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 803.833 | 20.096 - 4478.959 - Poisson | 1 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220124 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220124R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/10/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV599

| Gr | No. | Loc. | ID | Prim | Tot Class | Length | Width | Aspect | Analyte | Elements | Comr | ment | Count Categories |
|-----|-----|------|-----|------|-----------------|--------|--------|--------|------------|-----------------------|--------|--------|-----------------------------|
| G10 | 1 | E42 | CDQ | 1 | Bundle | 3.5 | 0.2 | 17.5 | Chrysotile | Mg, Si | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | ItemT | уре | ItemNu | | | Confirm | | Comme | nt |
| | | | | | Spec | | J6758 | | | KM 2/1 | | | |
| | | | | | Diffra Brigh | | J6758 | | | KM 2/1 | 1/2022 | 0.53nm | ROW SPACING |
| | | | | | · · | liicia | | | | | | | |
| G10 | 1 | E42 | СМ | 2 | Fiber | 8.0 | 0.08 | 10 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 1 | E42 | CMQ | 3 | Fiber | 6.5 | 0.06 | 108.3 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G10 | 1 | E42 | СМ | 4 | Matrix 1-0 | 1.3 | 0.3 | 4.3 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | F41 | ADQ | 5 | Fiber | 3 | 0.45 | 6.7 | Actinolite | Mg, Al, Si, Ca, Fe | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | ItemT | уре | ItemNu | ım | | Confirm | ned | Comme | nt |
| | | | | | Spec | tra | J6758 | 1SP | | KM 2/1 | 1/2022 | | |
| | | | | | Diffra | | J6758 | | | KM 2/1 | 1/2022 | 0.53nm | ROW SPACING |
| | | | | | Brigh | tfield | J6758 | 1BF | | | | | |
| G10 | 2 | F41 | CD | 6 | Fiber | 1.8 | 0.08 | 22.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | F41 | CD | 7 | Fiber | 1.1 | 0.08 | 13.8 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | F41 | СМ | 8 | Matrix 1-0 | 4.5 | 4.2 | 1.1 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | F41 | CM | 9 | Matrix 2-0 | 2.5 | 1.3 | 1.9 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | F44 | CD | 10 | Fiber | 4.2 | 0.11 | 38.2 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | F44 | CD | 11 | Fiber | 1.1 | 0.11 | 10 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | F44 | СМ | 12 | Fiber | 0.6 | 0.08 | 7.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | F44 | СМ | 13 | Cluster 3-0 | 3.2 | 1.2 | 2.7 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | F44 | CM | 14 | Fiber | 1.3 | 0.08 | 16.2 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | F44 | СМ | 15 | Fiber | 1.5 | 0.08 | 18.8 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 4 | G43 | CD | 16 | Fiber | 0.9 | 0.08 | 11.2 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 5 | G52 | ADQ | 17 | Fiber | 3.3 | 0.38 | 8.7 | Actinolite | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 5 | G52 | CD | 18 | Fiber | 1.8 | 0.08 | 22.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 6 | H51 | CD | 19 | Fiber | 0.65 | 0.08 | 8.1 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 6 | H51 | СМ | 20 | Fiber | 0.5 | 0.06 | 8.3 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 6 | H51 | CD | 21 | Fiber | 0.9 | 0.08 | 11.2 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 7 | H33 | CD | 22 | Fiber | 1.8 | 0.08 | 22.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| 311 | 8 | H42 | CM | 23 | Matrix 1-0 | 3.5 | 1.5 | 2.3 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 9 | C33 | СМ | 24 | Fiber | 1.9 | 0.08 | 23.8 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220124 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 220124R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 2/10/2022

Lab/Cor Sample No: S1 Client Sample No: MV599

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-----|-----|------|----|----------|------------|--------|-------|--------|------------|----------|---------|-----------------------------|
| G11 | 10 | E24 | CM | 25 | Matrix 1-0 | 1.3 | 0.6 | 2.2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 10 | E24 | CD | 26 | Fiber | 1.8 | 0.1 | 18 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 10 | E24 | CM | 27 | Fiber | 0.9 | 0.08 | 11.2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |

Lab/Cor Sample No: S2 Client Sample No: MV600

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comr | nent | Count Categories |
|-------|---------|------|-----------|------------|--------|-----------|--------|------------|-----------------|----------|---------|-----------|-----------------------------|
| G4 | 1 | G44 | | | NSD | | | | | | | | |
| G4 | 2 | H43 | | | NSD | | | | | | | | |
| G5 | 3 | G52 | CDQ | 1 | Bundle | 3 | 0.25 | 12 | Chrysotile | Mg, Si | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Iten | пТуре | ItemNu | ım | | Confirr | ned | Comment | |
| | | | | | Briç | ghtfield | J67578 | BBF | | | | | |
| | | | | | Diff | raction | J67578 | 3DF | | SB 2/ | 10/2022 | 0.53nm R | OW SPACING |
| | | | | | Spe | ectra | J67578 | BSP | | SB 2/ | 10/2022 | | |
| G5 | 4 | H51 | | | NSD | | | | | | | | |
| Count | Catego | ries | | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM | Asbestos | s >=5.0µm | AST | M_0.5-5.0 | ASTM A | sbestos >= | ·0.5μm - <5.0μr | n ASTM | _Total | ASTM Tota | al Asbestos >=0.5μm |
| ASTM | D_Other | ASTM | Libby-Otl | her >0.5μm | | | | | | | | | |

Reviewed by:

Kate March Quality Control Officer



LABORATORY CHAIN OF CUSTODY

| | uested: <u>ASTM mi</u> Signature: <i>Alli</i> | | Date: 2/9/2021 Date/Time: 2/9/2021 | 0730 | | |
|---|--|--|--|--------------|--|--|
| | /Signature: | , , | Date/Time: 2/10/22 | 0130 | | |
| ccirca ay | E | mail ALL INVOICES to: seatt | leap@pbsusa.com | | | |
| mail results Brian Star Willem M Gregg Mi Mark Hile Tim Ogd URN AROU 1 Hour 2 Hours 4 Hours | nford lager ddaugh ey en ND TIME: | Prudy Stoudt-McRae Janet Murphy Kaitlin Soukup Claire Tsai Holly Tuttle 24 Hours 48 Hours | Mike Smith Ferman Fletcher Ryan Hunter Toan Nguyen 3 Days Other | _ | | |
| | LOD<1000 | SAMPLE DATA I | ORM | | | |
| Sample # | Material | | Location | Lab Labco | | |
| NV599 | Dust - 100cm2 area | Olympic South, West Elevation Main Disconnect panel | | | | |
| // √600 | Dust - 100cm2 area | Olympic South, West Elevation | n conduit to main disconnect panel | | | |
| | | | | | | |
| | | | wed by: | | | |
| | | Fax | Verbals USPS Email | | | |



ASTM D 5755-09 - Microvac Final Report

Job Number: 220130 Report Number: 220130R01 Client: PBS Engineering + Environmental Report Date: 2/15/2022

Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|--|-------------------|
| 220130 - S1 | MV601 | ASTM D 5755-09 - Microvac | | 2/11/2022 |
| 220130 - S2 | MV602 | ASTM D 5755-09 - Microvac | | 2/11/2022 |
| 220130 - S3 | MV603 | ASTM D 5755-09 - Microvac | Many Mg, Si Fibers where DF was unattainable | 2/11/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Shauna Bjornso

Analyst



Analytical Sens. (struc/cm2): 803.833

ASTM D 5755-09 - Microvac Final Report

Report Number: 220130R01 Job Number: 220130 SEA Date Received: 2/11/2022 Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm2): 100

Client Sample No.: MV601 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4 Final Dilution: 0.075 Residual Ash Vol: 20 ml Average Grid Opening Area: 0.012 Begin Volume: 20 ml Area Analyzed (mm2): 0.048 Volume Taken: 1.5 ml

Analysis Date Magnification Analyst(s) Microscope SB 2/15/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Sample Area/Mass/Volume (cm²): 100 Lab/Cor Sample No.: S2 Client Sample No.: MV602 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 **Grid Openings Analyzed:** 4 Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012 Begin Volume: 20 ml Area Analyzed (mm2): 0.048 Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s) **Analysis Date** Microscope Magnification SB 2/15/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220130 SEA Report Number: 220130R01
Client: PBS Engineering + Environmental Date Received: 2/11/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV603 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.05 Grid Openings Analyzed: 6

Residual Ash Vol: 20 ml Final Dilution: 0.05 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.072

Volume Taken: 1 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s)Analysis DateMicroscopeMagnificationSB2/15/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | 803.833 | 20.096 - 4478.959 - Poisson | 1 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5µm | 803.833 | 20.096 - 4478.959 - Poisson | 1 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Shauna Bjornson

Analyst



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220130 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220130R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/11/2022

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: MV601

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | E43 | | | NSD | | | | | | | |
| G4 | 2 | G44 | | | NSD | | | | | | | |
| G5 | 3 | F34 | | | NSD | | | | | | | |
| G5 | 4 | G33 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV602

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Asp | ect Analyt | e Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-----------|------------|------------|---------|-------------------------|
| G4 | 1 | H41 | | NSD | | | | | | |
| G4 | 2 | H34 | | NSD | | | | | | |
| G5 | 3 | F34 | | NSD | | | | | | |
| G5 | 4 | G32 | | NSD | | | | | | |

Lab/Cor Sample No: S3
Client Sample No: MV603

| Gr | No. | Loc. | ID | Prim | Tot Cla | ISS | Length | Width | Aspect | Analyte | Elemen | ts Comi | ment | Count Categories |
|-------|-----------|------|----------|----------|---------|--------|-----------|--------|------------|-----------------|--------|-----------|-----------|------------------------------|
| G7 | 1 | G32 | CDQ | 1 | Bun | ıdle | 1.85 | 0.15 | 12.3 | Chrysotile | Mg, | Si | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | | ItemT | уре | ItemNu | ım | | Co | nfirmed | Comment | |
| | | | | | | Brigh | tfield | J6762 | 1BF | | | | | |
| | | | | | | Diffra | ection | J6762 | 1DF | | SB | 2/15/2022 | 0.53nm R | OW SPACING |
| | | | | | | Spec | tra | J6762 | 1SP | | SB | 2/15/2022 | | |
| G7 | 2 | G24 | | | NS | SD | | | | | | | | |
| G7 | 3 | H23 | | | NS | SD | | | | | | | | |
| G8 | 4 | G42 | | | NS | SD | | | | | | | | |
| G8 | 5 | G34 | | | NS | SD | | | | | | | | _ |
| G8 | 6 | H33 | | | NS | SD | | | | | | | | |
| Count | t Categoi | ies | | | | | | | | | | | | |
| ASTM | l_>=5.0 | ASTM | Asbestos | s >=5.0µ | m | ASTM | 1_0.5-5.0 | ASTM A | sbestos >= | ₌0.5μm - <5.0μι | m AS | TM_Total | ASTM Tota | al Asbestos >=0.5μm |
| ASTM | ID_Other | ASTM | Libby-Ot | her >0.5 | ım | _ | | | | | | | | |

Reviewed by:

Shauna Bjornson Analyst

Page 4 of 4

220130



LABORATORY CHAIN OF CUSTODY

| Project: Pierce Colle | ge Olympic South Abatement and Repairs | Project #: 40535.488 Page 1 of 1 |
|---|---|---|
| | Peter Stensland / 19th Stead | Date: 2/11/2021 Date/Time: 2/11/2021 Date/Time: 2/11/2021 |
| | Email ALL INVOICES to: seattleap@ | pbsusa.com |
| E-mail results to: Brian Stanford Willem Mager Gregg Middaugh Mark Hiley Tim Ogden | Prudy Stoudt-McRae Janet Murphy Kaitlin Soukup Claire Tsai Holly Tuttle | Mike Smith Ferman Fletcher Ryan Hunter Toan Nguyen |
| TURN AROUND TIME: 1 Hour 2 Hours 4 Hours | ☐ 24 Hours | 3 Days Other |
| LOD | -1000 | |

| | SAMPLE DATA FORM | | | | | | | | | | |
|----------|--------------------|--|--------|--|--|--|--|--|--|--|--|
| Sample # | Material | Location | Lab | | | | | | | | |
| MV601 | Dust - 100cm2 area | Olympic South, Student Lounge Underdeck East Side 10ft Out (S) | Labcor | | | | | | | | |
| MV602 | Dust - 100cm2 area | Olympic South, Student Lounge Underdeck West Side (S) | | | | | | | | | |
| MV603 | Dust - 100cm2 area | Olympic South, Student Lounge Underdeck Central (N) | | | | | | | | | |
| | | | | | | | | | | | |
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ASTM D 5755-09 - Microvac Final Report

Job Number: 220132 Report Number: 220132R01 Client: PBS Engineering + Environmental Report Date: 2/16/2022

Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Client Sample Number Analysis Analysis Notes Date Lab/Cor Num. Received: MV604 2/14/2022 220132 - S1 ASTM D 5755-09 - Microvac Several Mg, Si Fibers with no DF Achievable 220132 - S2 MV605 ASTM D 5755-09 - Microvac 2/14/2022

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,



ASTM D 5755-09 - Microvac Final Report

Job Number: 220132 SEA Report Number: 220132R01
Client: PBS Engineering + Environmental Date Received: 2/14/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV604 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 11

Residual Ash Vol: 20 ml Final Dilution: 0.025 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.132

Volume Taken: 0.5 ml Analytical Sens. (struc/cm2): 876.909

Analyst(s) Analysis Date Microscope Magnification SB 2/16/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 876.909 | 0 - 3234.918 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 876.909 | 0 - 3234.918 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 876.909 | 0 - 3234.918 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 876.909 | 0 - 3234.918 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV605

Filter Fraction: 1

Residual Ash Vol: 20 ml

Begin Volume: 20 ml

Lab Filter Area (mm2): 289.38

Aliquot Dilution: 0.075

Grid Openings Analyzed: 4

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.048

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s)Analysis DateMicroscopeMagnificationSB2/16/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 803.833 | 20.096 - 4478.959 - Poisson | 1 | |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5μm | 803.833 | 20.096 - 4478.959 - Poisson | 1 | |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Shauna Bjornson

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220132 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220132R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/14/2022

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: MV604

| | | - | | | | | | | | | | |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G7 | 1 | K54 | | | NSD | | | | | | | |
| G7 | 2 | G61 | | | NSD | | | | | | | |
| G7 | 3 | K43 | | | NSD | | | | | | | |
| G7 | 4 | B52 | | | NSD | | | | | | | |
| G7 | 5 | E64 | | | NSD | | | | | | | |
| G8 | 6 | F44 | | | NSD | | | | | | | |
| G8 | 7 | F33 | | | NSD | | | | | | | |
| G8 | 8 | B32 | | | NSD | | | | | | | |
| G8 | 9 | C33 | | | NSD | | | | | | | |
| G8 | 10 | F34 | | | NSD | | | | | | | |
| G8 | 11 | G33 | | | NSD | | | | | | | |
| | | | | | | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV605

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comme | ent Count Categories |
|-------|---------|------|-----------|------------|-------|-----------|--------|------------|----------------|-------------------|---------|-----------------------------|
| G7 | 1 | F42 | | | NSD | | | | | | | |
| G7 | 2 | G41 | | | NSD | | | | | | | |
| G8 | 3 | F34 | ADQ | 1 | Fiber | 1.45 | 0.2 | 7.2 | Tremolite | Mg, Si, Ca, Fe | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Item | Туре | ItemNu | ım | | Confirm | ed | Comment |
| | | | | | Brig | htfield | J6762 | 4BF | | | | |
| | | | | | Diffi | raction | J6762 | 4DF | | SB 2/1 | 6/2022 | 0.53nm ROW SPACING |
| | | | | | Spe | ctra | J6762 | 4SP | | SB 2/1 | 6/2022 | |
| G8 | 4 | G33 | | | NSD | | | | | | | |
| Count | Catego | ries | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM | Asbestos | s>=5.0μm | AST | M_0.5-5.0 | ASTM A | sbestos >= | 0.5μm - <5.0μr | m ASTM_ | Total A | ASTM Total Asbestos >=0.5μm |
| ASTM | D_Other | ASTM | Libby-Oth | ner >0.5µm | | | | | | | | |

Reviewed by:

Shauna Bjornson



A3の3つ LABORATORY CHAIN OF CUSTODY

| - 1111 | | pic South Abatement and Repairs nicrovac dust sample | Project #: 40535.488 Page Page Page Page Page Page Page Page | ge 1 of 1 |
|--|------------------------------------|---|--|-----------|
| | 11/11 | ue Todi | Date/Time: 2/11/2021 | |
| | , - 13 | de jeux | al las d | Dam |
| Received b | y/Signature: | ad de | Date/Time: 4/14/42 110 | |
| | | Email ALL INVOICES to: seattleap | @pbsusa.com | |
| E-mail result Brian Sta Willem I Gregg M Mark Hi Tim Ogo | anford Mager Iiddaugh Iey | Prudy Stoudt-McRae Janet Murphy Kaitlin Soukup Claire Tsai Holly Tuttle | Mike Smith Ferman Fletcher Ryan Hunter Toan Nguyen | |
| TURN AROU 1 Hour 2 Hours 4 Hours | | ☐ 24 Hours ☑ 48 Hours | 3 Days Other | |
| | | SAMPLE DATA FORM | 1 | |
| Sample # | Material | Loc | cation | Lab |
| MV604 | Dust - 100cm2 area | Cascade to Olympic South Skybridg | e west area top of light fixture | Labcor |
| MV605 | Dust - 100cm2 area | Cascade to Olympic South Skybridg | ge west area junction box cover plate | |
| | | | iewed by:ults Released: | |

USPS

Email



ASTM D 5755-09 - Microvac Final Report

Job Number: 220133 Report Number: 220133R01 Report Date: 2/16/2022

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|--|-------------------|
| 220133 - S1 | MV606 | ASTM D 5755-09 - Microvac | This sample includes non- asbestos fibers like Ferro- Actinolite | 2/14/2022 |
| 220133 - S2 | MV607 | ASTM D 5755-09 - Microvac | | 2/14/2022 |
| 220133 - S3 | MV608 | ASTM D 5755-09 - Microvac | | 2/14/2022 |
| 220133 - S4 | MV609 | ASTM D 5755-09 - Microvac | | 2/14/2022 |
| 220133 - S5 | MV610 | ASTM D 5755-09 - Microvac | | 2/14/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N.N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,



Analytical Sens. (struc/cm2): 1607.667

ASTM D 5755-09 - Microvac Final Report

Report Number: 220133R01 SEA Job Number: 220133 Date Received: 2/14/2022 Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm2): 100

Client Sample No.: MV606 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 6 Final Dilution: 0.025 Residual Ash Vol: 20 ml Average Grid Opening Area: 0.012 Begin Volume: 20 ml Area Analyzed (mm2): 0.072 Volume Taken: 0.5 ml

Analysis Date Magnification Analyst(s) Microscope SB 2/16/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total | | |
|--------------------------------|-----------------------------------|---|-----------------------------------|--|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 1607.667 | 40.192 - 8957.919 - Poisson | 1 | | |
| ASTM Asbestos >=5.0μm | < 1607.667 | 0 - 5930.682 - Poisson | 0 | | |
| ASTM Libby-Other >0.5μm | < 1607.667 | 0 - 5930.682 - Poisson | 0 | | |
| ASTM Total Asbestos >=0.5μm | 1607.667 | 40.192 - 8957.919 - Poisson | 1 | | |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Sample Area/Mass/Volume (cm2): 100 Lab Filter Area (mm2): 289.38 Client Sample No.: MV607

Filter Fraction: 1 Aliquot Dilution: 0.075 **Grid Openings Analyzed:** 4 Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012 Begin Volume: 20 ml Area Analyzed (mm2): 0.048 Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s) **Analysis Date** Microscope Magnification SB 2/16/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220133 SEA Report Number: 220133R01
Client: PBS Engineering + Environmental Date Received: 2/14/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV608 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.048

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s)Analysis DateMicroscopeMagnificationSB2/16/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5µm | < 803.833 | 0 - 2965.341 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4

Client Sample No.: MV609

Sample Area/Mass/Volume (cm²): 100

Lab Filter Area (mm²): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.048

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s) Analysis Date Microscope Magnification
SB 2/16/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220133 SEA Report Number: 220133R01
Client: PBS Engineering + Environmental Date Received: 2/14/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S5 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV610 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.05 Grid Openings Analyzed: 6

Residual Ash Vol: 20 ml Final Dilution: 0.05 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.072

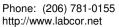
Volume Taken: 1 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s)Analysis DateMicroscopeMagnificationSB2/16/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | | |
|--------------------------------|-----------------------------------|---|---|--|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | | |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | | |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | | |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 | | |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Shauna Bjornson





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220133 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220133R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/14/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV606

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Element | s Comi | ment | Count Categories |
|----|-----|------|-----|----------|-------|----------|--------|--------|------------|---------------|-----------|----------|------------------------------|
| G7 | 1 | E44 | | | NSD | | | | | | | | |
| G7 | 2 | F43 | | | NSD | | | | | | | | |
| G7 | 3 | G51 | | | NSD | | | | | | | | |
| G8 | 4 | E44 | ADQ | 1 | Fiber | 2.5 | 0.3 | 8.3 | Actinolite | Mg, Si, Fe | Ca, | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | Iten | пТуре | ItemNu | ım | | Cor | nfirmed | Commen | t |
| | | | | | Briç | ghtfield | J6762 | 5BF | | | | | |
| | | | | | Diff | raction | J6762 | 5DF | | SB | 2/16/2022 | 0.53nm F | ROW SPACING |
| | | | | | Spe | ectra | J6762 | 5SP | | SB | 2/16/2022 | | |
| G8 | 5 | F43 | | | NSD | | | | | | | | _ |
| G8 | 6 | C52 | | | NSD | | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV607

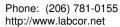
| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | F42 | | NSD | | | | | | | |
| G4 | 2 | G41 | | NSD | | | | | | | |
| G5 | 3 | F44 | | NSD | | | | | | | |
| G5 | 4 | G44 | | NSD | | | | | | | |

Lab/Cor Sample No: S3
Client Sample No: MV608

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width A | spect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|---------|-------|---------|----------|---------|------------------|
| G4 | 1 | F34 | | NSD | | | | | | | |
| G4 | 2 | G33 | | NSD | | | | | | | |
| G5 | 3 | E42 | | NSD | | | | | | | |
| G5 | 4 | E34 | | NSD | | | | | | | |

Lab/Cor Sample No: S4 Client Sample No: MV609

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | C34 | | NSD | | | | | | | |
| G4 | 2 | C42 | | NSD | | | | | | | |
| G5 | 3 | F54 | | NSD | | | | | | | |
| G5 | 4 | G53 | | NSD | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220133 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220133R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/14/2022

Lab/Cor Sample No: S5 Client Sample No: MV610

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|------|----------|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | F52 | | | NSD | | | | | | | |
| G4 | 2 | G51 | | | NSD | | | | | | | |
| G4 | 3 | G43 | | | NSD | | | | | | | |
| G5 | 4 | F42 | | | NSD | | | | | | | |
| G5 | 5 | G41 | | | NSD | | | | | | | |
| G5 | 6 | G23 | | | NSD | | | | | | | |
| Coun | t Cateno | rice | | | | | | | | | | |

| Count Categories | | | | | |
|--------------------------------------|--------------|--------------------------------|------------|-----------------------------|--|
| ASTM_>=5.0 ASTM Asbestos >=5.0μm | ASTM_0.5-5.0 | ASTM Asbestos >=0.5μm - <5.0μm | ASTM_Total | ASTM Total Asbestos >=0.5µm | |
| ASTMD Other ASTM Libby-Other > 0.5um | • | | | | |

Reviewed by:

Shauna Bjornson



220/33 LABORATORY CHAIN OF CUSTODY

| eelinq'd by Received by -mail result Brian Sta Willem M | s to: nford Mager iddaugh | WT 490 Date/Time: 2/11/2021 | :Oan |
|---|---|---|--------|
| Mark Hill Tim Ogd TURN AROU 1 Hour 2 Hours 4 Hours | en | Holly Tuttle 24 Hours 48 Hours Other | |
| | | SAMPLE DATA FORM | |
| Sample # | Material | Location | Lab |
| MV606 | Dust - 100cm2 area | Olympic South LV1 east elevation landing cavity above door | Labcor |
| MV607 | Dust - 100cm2 area | Olympic South LV1 east elevation landing cavity above door north conduit | |
| MV608 | Dust - 100cm2 area | Cover Olympic South LV1 east elevation landing cavity above door south conduit cover | |
| | Dust - 100cm2 area | Olympic South LV1 east elevation conduit below skybridge Cascade side | |
| MV609 | | | |
| MV609 MV610 | Dust - 100cm2 area | Olympic South LV1 east elevation conduit below skybridge Cascade side south conduit cover | |
| | Dust - 100cm2 area | Olympic South LV1 east elevation conduit below skybridge Cascade side | 100 |
| | Dust - 100cm2 area | Olympic South LV1 east elevation conduit below skybridge Cascade side | K |
| | Dust - 100cm2 area | Olympic South LV1 east elevation conduit below skybridge Cascade side south conduit cover | |
| MV610 | Dust - 100cm2 area | Olympic South LV1 east elevation conduit below skybridge Cascade side south conduit cover | |
| MV610 | wed by: | Olympic South LV1 east elevation conduit below skybridge Cascade side south conduit cover Reviews diewed by: Results Released: Results Released: Variable Uses Email | |
| MV610 | | Olympic South LV1 east elevation conduit below skybridge Cascade side south conduit cover Reviewed by: Results Released: Results Released: Fax Verbals USPS Email Fax Verbals USPS Email | |
| Revie Resul | wed by: | Olympic South LV1 east elevation conduit below skybridge Cascade side south conduit cover Reviews diewed by: Results Released: Results Released: Fax Verbals USPS Email | |



ASTM D 5755-09 - Microvac Final Report

Job Number: 220134 Report Number: 220134R01 Report Date: 2/16/2022

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|----------------|-------------------|
| 220134 - S1 | MV611 | ASTM D 5755-09 - Microvac | | 2/14/2022 |
| 220134 - S2 | MV612 | ASTM D 5755-09 - Microvac | | 2/14/2022 |
| 220134 - S3 | MV613 | ASTM D 5755-09 - Microvac | | 2/14/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15.000 - 20.000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Quality Control Officer



ASTM D 5755-09 - Microvac Final Report

Job Number: 220134 SEA Report Number: 220134R01
Client: PBS Engineering + Environmental Date Received: 2/14/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV611 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.025 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.12

Volume Taken: 0.5 ml Analytical Sens. (struc/cm2): 964.6

 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 KM
 2/16/2022
 JEOL-Sr 1200
 20000

 SB
 2/16/2022
 JEOL-Sr 1200
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 964.6 | 24.115 - 5374.751 - Poisson | 1 |
| ASTM Asbestos >=5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 964.6 | 24.115 - 5374.751 - Poisson | 1 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV612

Filter Fraction: 1

Aliquot Dilution: 0.025

Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml

Final Dilution: 0.025

Average Grid Opening Area: 0.012

Begin Volume:20 mlArea Analyzed (mm2) :0.12Volume Taken:0.5 mlAnalytical Sens. (struc/cm2) :964.6

 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 SB
 2/16/2022
 JEOL-Sr 1200
 20000

 KM
 2/16/2022
 JEOL-Sr 1200
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | 18327.4 | 11035.024 - 28620.647 - Poisson | 19 |
| ASTM Asbestos >=5.0μm | 2893.8 | 597.087 - 8456.648 - Poisson | 3 |
| ASTM Libby-Other >0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Total Asbestos >=0.5µm | 21221.2 | 13299.905 - 32129.861 - Poisson | 22 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220134 SEA Report Number: 220134R01
Client: PBS Engineering + Environmental Date Received: 2/14/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV613 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.048

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s) Analysis Date Microscope Magnification
KM 2/16/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 803.833 | 20.096 - 4478.959 - Poisson | 1 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 803.833 | 20.096 - 4478.959 - Poisson | 1 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220134 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220134R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/14/2022

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: MV611

| Gr | No. | Loc. | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Element | s Comr | ment | Count Categories |
|----|-----|------|----------|------|-----|--------|---------|--------|--------|------------|---------|-----------|-----------|-----------------------------|
| G4 | 1 | F42 | CDQ | | | Bundle | 2.9 | 0.11 | 26.4 | Chrysotile | Mg, S | Si | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | | Item | Туре | ItemNu | ım | | Cor | nfirmed | Comment | |
| | | | | | | Spe | ctra | J6762 | 9SP | | KM | 2/16/2022 | | |
| | | | | | | Diff | raction | J6762 | 9DF | | KM | 2/16/2022 | 0.53nm RC | OW SPACING |
| | | | | | | Brig | htfield | J6762 | 9BF | | | | | |
| G4 | 2 | G41 | | | | NSD | | | | | | | | |
| G4 | 3 | G33 | | | | NSD | | | | | | | | |
| G4 | 4 | G44 | | | | NSD | | | | | | | | |
| G4 | 5 | H43 | | | | NSD | | | | | | | | |
| G5 | 6 | E34 | | | | NSD | | | | | | | | |
| G5 | 7 | E42 | | | | NSD | | | | | | | | |
| G5 | 8 | F41 | <u>-</u> | | | NSD | | | | | | | · | |
| G5 | 9 | E44 | | | | NSD | | | | | | | | |
| G5 | 10 | E52 | | | | NSD | | | | | | | | |



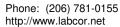
ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220134 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 220134R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 2/14/2022

Lab/Cor Sample No: S2 **Client Sample No:** MV612

| \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 | 1 1 1 2 2 3 4 4 | E52 E52 E52 F51 F51 F43 G34 | CD CD AQ AQ CD CM | Prim Tot 1 2 3 4 5 6 | Matrix 1-0 Bundle Matrix 1-0 Fiber Fiber | 1.5 2.5 4.5 1.2 | 1.5 0.11 3.8 0.12 | 1 22.7 1.2 | Analyte Chrysotile Chrysotile | Elements | Comn | nent | ASTM_0.5-5.0, ASTM_Total ASTM 0.5-5.0, |
|--|----------------------------|---------------------------------|----------------------|-----------------------|--|--------------------------|----------------------------|------------|---|---------------|--------|--|--|
| 310 310 310 310 310 310 310 | 1 1 2 2 3 4 | E52 E52 F51 F51 F43 | CD AQ AQ CD | 2 3 4 5 | Bundle Matrix 1-0 Fiber | 2.5 4.5 | 0.11 3.8 | 22.7 | • | | | | ASTM_Total |
| 310 310 310 310 310 | 1 2 2 3 4 | E52 F51 F51 F43 | AQ AQ CD CM | 3 4 5 | Matrix 1-0 Fiber | 4.5 | 3.8 | | Chrysotile | | | | |
| 310 310 310 310 310 | 1 2 2 3 4 | E52 F51 F51 F43 | AQ AQ CD CM | 3 4 5 | Matrix 1-0 Fiber | 4.5 | 3.8 | | Omysome | | | | |
| 310 310 310 310 310 | 2 2 3 4 | F51 F51 F43 | AQ CD CM | 4 5 | Fiber | | | 1.2 | | | | | ASTM_Total |
| i10 i10 i10 i10 | 2 3 4 | F51 F43 | CD | 5 | | 1.2 | N 12 | | Actinolite | | | | ASTM_0.5-5.0, |
| 310 310 310 310 | 2 3 4 | F51 F43 | CD | 5 | | 1.2 | (1 1/ | 10 | Actinolite | | | | ASTM_Total ASTM 0.5-5.0, |
| 310 310 310 | 3 | F43 | СМ | | Fiber | | 0.12 | 10 | Actinonte | | | | ASTM_0.5-5.0, ASTM_Total |
| 910 910 | 4 | | | 6 | | 1.3 | 0.07 | 18.6 | Chrysotile | | | | ASTM_0.5-5.0, |
| 910 910 | 4 | | | ь | F !b | 0.7 | 0.00 | 0.0 | 01 | | | | ASTM_Total |
| G10 | | G34 | AQ | | Fiber | 0.7 | 0.08 | 8.8 | Chrysotile | | | | ASTM_0.5-5.0, ASTM Total |
| | 4 | | | 7 | Bundle | 5.5 | 1.1 | 5 | Actinolite | | | | ASTM_>=5.0, |
| | 4 | | | | | | | | <u> </u> | | | | ASTM_Total |
| 310 | | G34 | CD | 8 | Fiber | 1.9 | 0.1 | 19 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| | 5 | H33 | CD | 9 | Fiber | 3 | 0.1 | 30 | Chrysotile | | | | ASTM 0.5-5.0, |
| | | | | | | | | | , | | | | ASTM_Total |
| 311 | 6 | E32 | CDQ | 10 | Fiber | 1.5 | 0.1 | 15 | Chrysotile | Mg, Si | | | ASTM_0.5-5.0, ASTM Total |
| | | | | | Item | Туре | ItemNu | ım | | Confirm | ied | Comment | ASTIVI_TOTAL |
| | | | | | | htfield | J6762 | 6BF | | | | | |
| | | | | | Diffr | action | J6762 | 6DF | | SB 2/1 | 6/2022 | 0.53nm R0 | OW SPACING |
| | | | | | Spe | ctra | J6762 | 6SP | | SB 2/1 | 6/2022 | | |
| à11 | 6 | E32 | NAS | 11 | Fiber | 2.8 | 0.18 | 15.6 | Non | Ma, Al, Si, | Ma-Ha | ornblende | |
| | Ū | | 14710 | •• | 1 1001 | 2.0 | 0.10 | 10.0 | Asbestos | Ca, Fe | wg |),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | | | | | | | | | Structure | | | | |
| 311 | 6 | E32 | CMQ | 12 | Fiber | 0.95 | 0.08 | 11.9 | Chrysotile | | | | ASTM_0.5-5.0, ASTM Total |
| à11 | 7 | G43 | NAS | 13 | Fiber | 3.3 | 0.4 | 8.2 | Non | Mg, Si, Fe | Tran | sitional | 7.01W_10tal |
| | • | G 10 | 14710 | .0 | 1 1001 | 0.0 | 0.1 | 0.2 | Asbestos | wg, o,, r o | | iber | |
| | | | | | | | | | Structure | | (Antl | no/Talc) | |
| 311 | 7 | G43 | ADQ | 14 | Bundle | 8.5 | 1.2 | 7.1 | Actinolite | Mg, Si, Ca, | | | ASTM_>=5.0, ASTM_Total |
| | | | | | Itom | Туре | ItemNu | ım | | Fe Confirm | od | Comment | ASTIV_TOtal |
| | | | | | Spe | | J6762 | | | KM 2/1 | | Comment | |
| | | | | | • | action | J6762 | | | KM 2/1 | | 0.53nm R0 | OW SPACING |
| | | | | | Brig | htfield | J6762 | 7BF | | | | | |
| 311 | 7 | G43 | СМ | 15 | Fiber | 0.7 | 0.08 | 8.8 | Chrysotilo | | | | ASTM 0.5-5.0, |
| 411 | 1 | U+3 | Olvi | 13 | i ibei | 0.7 | 0.00 | 0.0 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| 11 | 7 | G43 | CD | 16 | Fiber | 4.7 | 0.08 | 58.8 | Chrysotile | | | | ASTM_0.5-5.0, |
| i11 | 7 | G43 | CD | 17 | Fiber | 0.6 | 0.05 | 12 | Chrysotile | | | | ASTM_Total ASTM_0.5-5.0, |
| 411 | 1 | G43 | OD | 17 | i-ibei | 0.0 | 0.05 | 14 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| 311 | 7 | G43 | CM | 18 | Fiber | 1.8 | 0.1 | 18 | Chrysotile | | | | ASTM_0.5-5.0, |
| G11 | 7 | G43 | CD | 19 | Fiber | 1.6 | 0.1 | 16 | Chrysotile | | | | ASTM_Total ASTM 0.5-5.0, |
| 411 | | G43 | | 13 | i-ibei | 1.0 | 0.1 | 10 | Onlysonie | | | | ASTM_0.5-5.0, ASTM_Total |
| 311 | 8 | E43 | | | NSD | | | | | | | | |
| 311 | 9 | G34 | AQ | 20 | Bundle | 4 | 0.38 | 10.5 | Actinolite | | | | ASTM_0.5-5.0, |
| 244 | _ | 004 | 014 | 04 | Maria | 4.0 | o 4 | 0.0 | Olemen !!! | | | | ASTM_Total |
| 311 | 9 | G34 | CM | 21 | Matrix 2-0 | 1.3 | 0.4 | 3.2 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| 311 1 | 10 | F32 | CM | 22 | Matrix 1-1 | 7.5 | 1.5 | 5 | Chrysotile | | | | ASTM_>=5.0, |
| | | | | | | | | | • | | | | ASTM_Total |
| 311 1 | 10 | F32 | CD | 23 | Bundle | 1.8 | 0.16 | 11.2 | Chrysotile | | | | |
| 11 1 | 10 | F32 | CD | 23 | Bundle | 1.8 | 0.16 | 11.2 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220134 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220134R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/14/2022

Lab/Cor Sample No: S2 Client Sample No: MV612

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-----|-----|------|----|----------|------------|--------|-------|--------|------------|----------|---------|-----------------------------|
| G11 | 10 | F32 | CM | 24 | Matrix 1-0 | 1.5 | 1 | 1.5 | Chrysotile | 1 | | ASTM_0.5-5.0, ASTM_Total |

Lab/Cor Sample No: S3 Client Sample No: MV613

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comn | nent Count Cat | egories |
|-------|---------|------|-----------|------------|-------|-----------|--------|------------|-----------------|----------|---------|------------------------|---------|
| G4 | 1 | F33 | | | NSD | | | | | | | | |
| G4 | 2 | G41 | CDQ | 1 | Fiber | 1.1 | 0.1 | 11 | Chrysotile | Mg, Si | | ASTM_0 ASTM_ | |
| | | | | | Iten | пТуре | ItemNu | ım | | Confir | med | Comment | |
| | | | | | Spe | ectra | J6762 | 8SP | | KM 2 | 16/2022 | | |
| | | | | | Diff | fraction | J6762 | 8DF | | KM 2 | 16/2022 | 0.53nm ROW SPACING | i |
| | | | | | Bri | ghtfield | J6762 | 8BF | | | | | |
| G5 | 3 | F34 | | | NSD | | | | | | | | |
| G5 | 4 | G42 | | | NSD | | | | | | | | |
| Count | Catego | ries | | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM | Asbestos | s >=5.0μm | AST | M_0.5-5.0 | ASTM A | sbestos >= | :0.5μm - <5.0μr | n ASTM | _Total | ASTM Total Asbestos >= | 0.5µm |
| ASTM | D_Other | ASTM | Libby-Oth | her >0.5µm | | | | | | | | | |

Reviewed by:

Kate March

Quality Control Officer



220134 LABORATORY CHAIN OF CUSTODY

| Analysis r | | microvac dust sample | Project #: 40535.488 Page 1 c Date: 2/11/2021 Date/Time: 2/11/2021 |
|------------------------------------|--------------------------------------|---|--|
| Received | by/Signature: | 9.75 | Date/Time: 1/14/80 9,00 an |
| E-mail resu | lts to: | Email ALL INVOICES to: seattleap@ | pbsusa.com |
| Brian S | tanford Mager Middaugh iley | ☐ Prudy Stoudt-McRae ☐ Janet Murphy ☐ Kaitlin Soukup ☐ Claire Tsai ☐ Holly Tuttle | Mike Smith Ferman Fletcher Ryan Hunter Toan Nguyen |
| TURN ARO 1 Hour 2 Hours 4 Hours | | 24 Hours 48 Hours | 3 Days Other |
| +nours | LOD<1000 | | |
| | | SAMPLE DATA FORM | |
| Sample # | Material | Locat | ion Lab |
| MV611 | Dust - 100cm2 area | Olympic South Robin's nest garden she | ed blue wood stand Labor |
| MV612 | Dust - 100cm2 area | Olympic South covered shed west elev | ration wood shelf |
| MV613 | Dust - 100cm2 area | Olympic South short shed tricycle on p | latform |
| | | | |
| | | | |
| | | Į. | So, and hu |
| | LED STREET SHITE 200 | F | Results Released: iax Verbals USPS Email nvoice Released: |



ASTM D 5755-09 - Microvac Final Report

Job Number: 220146 Report Number: 220146R01 Report Date: 2/16/2022

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: **Sub Project:** Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Client Sample Number Analysis Lab/Cor Num. **Analysis Notes** Date Received:

Several Mg, Si and Mg, Al, Si 220146 - S1 MV614 ASTM D 5755-09 - Microvac 2/15/2022

fibers present.

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Kate March **Quality Control Officer**



ASTM D 5755-09 - Microvac Final Report

Job Number: 220146 SEA Report Number: 220146R01
Client: PBS Engineering + Environmental Date Received: 2/15/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV614 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.05 Grid Openings Analyzed: 5

Residual Ash Vol: 20 ml Final Dilution: 0.05 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.06

Volume Taken: 1 ml Analytical Sens. (struc/cm2): 964.6

Analyst(s) Analysis Date Microscope Magnification
KM 2/16/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 15433.6 | 8822.232 - 25063.202 - Poisson | 16 |
| ASTM Asbestos >=5.0μm | 5787.6 | 2124.049 - 12597.676 - Poisson | 6 |
| ASTM Libby-Other >0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 21221.2 | 13299.905 - 32129.861 - Poisson | 22 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220146 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220146R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/15/2022

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: MV614

| Gr | No. | Lac | ID | Prim Tot | Class | Longth | Width | Aspest | Analyta | Elements | Commer | | Count Catagories |
|----|-----|-------------|-------|----------|-------------------|---------------|--------|--------|------------|----------|----------|----------|---|
| G7 | 1 | Loc. F44 | CMQ | 1 | | Length 3.2 | 0.9 | Aspect | Analyte | | Comme | Ιι. | Count Categories ASTM Total, ASTM 0.5- |
| G/ | ' | Г44 | CIVIQ | ı | Matrix 1-0 | 3.2 | 0.9 | 3.6 | Chrysotile | Mg, Si | | | 5.0 |
| G7 | 1 | F44 | CDQ | 2 | Fiber | 1.5 | 0.11 | 13.6 | Chrysotile | Mg, Si | | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | Item ⁻ | Гуре | ItemNu | ım | | Confirm | ied C | omment | |
| | | | | | Spec | tra | J6763 | | | KM 2/1 | | | |
| | | | | | | action | J6763 | | | KM 2/1 | 6/2022 0 | .53nm RC | OW SPACING |
| | | | | | Brigh | ntfield | J6763 | 0BF | | | | | |
| G7 | 1 | F44 | CM | 3 | Matrix 1-0 | 4.1 | 1.5 | 2.7 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G7 | 1 | F44 | CD | 4 | Fiber | 9.6 | 0.08 | 120 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| | | | | | Item ⁻ | Гуре | ItemΝι | ım | | Confirm | ied C | omment | |
| | | | | | Diffra | action | J6763 | 2DF | | KM 2/1 | 6/2022 0 | .53nm RC | OW SPACING |
| | | | | | Brigh | ntfield | J6763 | 2BF | | | | | |
| G7 | 1 | F44 | СМ | 5 | Matrix 1-0 | 1.3 | 0.6 | 2.2 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G7 | 2 | G51 | CD | 6 | Fiber | 1.2 | 0.1 | 12 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G7 | 2 | G51 | CM | 7 | Bundle | 1.85 | 0.2 | 9.2 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G7 | 2 | G51 | CM | 8 | Matrix 3-0 | 6.2 | 5.9 | 1.1 | Chrysotile | | | | ASTM_>=5.0, ASTM Total |
| G7 | 2 | G51 | CD | 9 | Fiber | 1.6 | 0.13 | 12.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G7 | 2 | G51 | СМ | 10 | Fiber | 8.0 | 0.08 | 10 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G7 | 2 | G51 | CD | 11 | Bundle | 4.1 | 0.15 | 27.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G7 | 3 | F32 | CD | 12 | Fiber | 5.8 | 0.08 | 72.5 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G7 | 3 | F32 | CMQ | 13 | Fiber | 1.1 | 0.05 | 22 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G7 | 3 | F32 | CD | 14 | Bundle | 2.22 | 0.11 | 20.2 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G8 | 4 | G33 | CD | 15 | Matrix 1-0 | 4.1 | 3.9 | 1.1 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G8 | 4 | G33 | CD | 16 | Bundle | 7.5 | 0.16 | 46.9 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G8 | 4 | G33 | CM | 17 | Fiber | 3.95 | 0.08 | 49.4 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G8 | 5 | F44 | CD | 18 | Fiber | 13.5 | 0.1 | 135 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G8 | 5 | F44 | CM | 19 | Matrix 1-1 | 14.5 | 9.5 | 1.5 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G8 | 5 | F44 | CM | 20 | Bundle | 0.95 | 0.12 | 7.9 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G8 | 5 | F44 | CM | 21 | Matrix 1-0 | 1.1 | 0.9 | 1.2 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G8 | 5 | F44 | CM | 22 | Fiber | 1.5 | 0.1 | 15 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220146 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 220146R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 2/15/2022

Count Categories

ASTM_>=5.0 ASTM Asbestos >=5.0µm ASTM_0.5-5.0 ASTM Asbestos >=0.5µm - <5.0µm ASTM_Total Asbestos >=0.5µm

ASTMD_Other ASTM Libby-Other >0.5µm

Reviewed by:

Klaren

Quality Control Officer



LABORATORY CHAIN OF CUSTODY

Page 1 of 1 Project: Pierce College Olympic South Abatement and Repairs Project #: 40535.488 Date: 2/15/2021 Analysis requested: ASTM microvac dust sample Date/Time: 2/5/2022 Relinq'd by/Signature: Date/Time: 2 Received by/Signature: Email ALL INVOICES to: seattleap@pbsusa.com E-mail results to: Mike Smith Prudy Stoudt-McRae Brian Stanford Ferman Fletcher Janet Murphy Willem Mager Ryan Hunter Kaitlin Soukup □ Gregg Middaugh Toan Nguyen Claire Tsai ☐ Mark Hiley Holly Tuttle Tim Ogden TURN AROUND TIME: 3 Days 24 Hours 1 Hour Other 48 Hours 2 Hours 4 Hours LOD<1000

| | | SAMPLE DATA FORM | | | | | | | | | |
|----------|--------------------|---|--|--|--|--|--|--|--|--|--|
| Sample # | Material | Material Location | | | | | | | | | |
| MV614 | Dust - 100cm2 area | ea Room 173 server rack equipment composite | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | Reviewed by: | | | | | | | | | |
| | | Results Released: | | | | | | | | | |
| | | Fax Verbals USPS Email Invoice Released: Fax USPS Email | | | | | | | | | |
| | | | | | | | | | | | |



ASTM D 5755-09 - Microvac Final Report

Job Number: 220162 Report Number: 220162R01 Client: PBS Engineering + Environmental Report Date: 2/21/2022

Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|-----------------------------------|-------------------|
| 220162 - S1 | MV615 | ASTM D 5755-09 - Microvac | | 2/18/2022 |
| 220162 - S2 | MV616 | ASTM D 5755-09 - Microvac | Some Mg, Al, Si Fibers Present | 2/18/2022 |
| 220162 - S3 | MV617 | ASTM D 5755-09 - Microvac | | 2/18/2022 |
| 220162 - S4 | MV618 | ASTM D 5755-09 - Microvac | | 2/18/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Shauna Bjornso



ASTM D 5755-09 - Microvac Final Report

Job Number: 220162 SEA Report Number: 220162R01
Client: PBS Engineering + Environmental Date Received: 2/18/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV615 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.025 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.12

Volume Taken: 0.5 ml Analytical Sens. (struc/cm2): 964.6

 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 SB
 2/18/2022
 JEOL-Sr 1200
 20000

 KM
 2/18/2022
 JEOL-Sr 1200
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 12539.8 | 6676.961 - 21444.023 - Poisson | 13 |
| ASTM Asbestos >=5.0μm | 1929.2 | 233.433 - 6969.235 - Poisson | 2 |
| ASTM Libby-Other >0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 14469 | 8098.782 - 23865.169 - Poisson | 15 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV616

Filter Fraction: 1

Aliquot Dilution: 0.005

Grid Openings Analyzed: 16

Residual Ash Vol: 20 ml

Begin Volume: 20 ml

Volume Taken: 0.1 ml

Lab Filter Area (mm2): 289.38

Grid Openings Analyzed: 16

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.192

Analytical Sens. (struc/cm2): 3014.375

Analyst(s) Analysis Date Microscope Magnification SB 2/21/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 6028.75 | 729.479 - 21778.859 - Poisson | 2 |
| ASTM Asbestos >=5.0μm | < 3014.375 | 0 - 11120.029 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 3014.375 | 0 - 11120.029 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 6028.75 | 729.479 - 21778.859 - Poisson | 2 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



Volume Taken: 1 ml

Phone: (206) 781-0155 http://www.labcor.net

Analytical Sens. (struc/cm2): 964.6

ASTM D 5755-09 - Microvac Final Report

Job Number: 220162 SEA Report Number: 220162R01

Client: PBS Engineering + Environmental Date Received: 2/18/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV617 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.05 Grid Openings Analyzed: 5

Residual Ash Vol: 20 ml Final Dilution: 0.05 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.06

Analyst(s)Analysis DateMicroscopeMagnificationSB2/21/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 5787.6 | 2124.049 - 12597.676 - Poisson | 6 |
| ASTM Asbestos >=5.0μm | 964.6 | 24.115 - 5374.751 - Poisson | 1 |
| ASTM Libby-Other >0.5µm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 6752.2 | 2714.384 - 13912.426 - Poisson | 7 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV618

Filter Fraction: 1

Residual Ash Vol: 20 ml

Begin Volume: 20 ml

Lab Filter Area (mm2): 289.38

Aliquot Dilution: 0.075

Grid Openings Analyzed: 10

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.12

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 0

Analyst(s) Analysis Date Microscope Magnification SB 2/21/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5µm | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Shauna Bjornson

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220162 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220162R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/18/2022

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: MV615

| Gr | No. | Loc. | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Element | s Comr | nent | Count Categories |
|----|-----|------|-----|------|-----|------------|---------|--------|--------|------------|------------------|--------------|-----------|------------------------------|
| G5 | 1 | E52 | ADQ | 1 | | Fiber | 2.5 | 0.2 | 12.5 | Actinolite | Mg, Al, Ca, F | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | | Item | Туре | ItemNu | ım | | Coi | nfirmed | Comment | |
| | | | | | | Brig | htfield | J6764 | 4BF | | | | | |
| | | | | | | Diffr | action | J6764 | 4DF | | SB | 2/18/2022 | 0.53nm R0 | OW SPACING |
| | | | | | | Spe | ctra | J6764 | 4SP | | SB | 2/18/2022 | | |
| G5 | 1 | E52 | CDQ | 2 | | Fiber | 5.5 | 0.15 | 36.7 | Chrysotile | Mg, | Si | | ASTM_Total, ASTM_>=5.0 |
| | | | | | | Item | Туре | ItemNı | ım | | Co | nfirmed | Comment | |
| | | | | | | Brig | htfield | J6764 | 5BF | | | | | |
| | | | | | | Diffr | action | J6764 | 5DF | | SB | 2/18/2022 | 0.53nm R0 | OW SPACING |
| | | | | | | Spe | ctra | J6764 | 5SP | | SB | SB 2/18/2022 | | |
| G5 | 2 | F51 | CQ | 3 | | Matrix 1-0 | 3.5 | 2 | 1.8 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 3 | F52 | СМ | 4 | | Fiber | 2 | 0.15 | 13.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 4 | G51 | | | | NSD | | | | | | | | |
| G5 | 5 | G52 | AQ | 5 | | Fiber | 3.5 | 0.5 | 7 | Actinolite | Mg, Al, Ca, F | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 5 | G52 | AM | 6 | | Fiber | 4 | 0.75 | 5.3 | Actinolite | | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 6 | H41 | CD | 7 | | Bundle | 2.7 | 0.13 | 20.8 | Chrysotile | | | | ASTM_0.5-5.0, ASTM Total |
| G6 | 6 | H41 | CM | 8 | | Matrix 1-0 | 1.7 | 8.0 | 2.1 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 6 | H41 | CM | 9 | | Fiber | 1.3 | 0.07 | 18.6 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G6 | 6 | H41 | CD | 10 | | Bundle | 3.1 | 0.15 | 20.7 | Chrysotile | | | | ASTM_0.5-5.0, ASTM Total |
| G6 | 6 | H41 | CD | 11 | | Fiber | 1.6 | 0.1 | 16 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 7 | G42 | | | | NSD | | | | | | | | |
| G6 | 8 | E52 | AQ | 12 | | Fiber | 5.1 | 0.73 | 7 | Actinolite | | | | ASTM_Total, ASTM_>=5.0 |
| G6 | 9 | F51 | CD | 13 | | Fiber | 1.3 | 0.1 | 13 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G6 | 9 | F51 | CD | 14 | | Bundle | 1.1 | 0.2 | 5.5 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G6 | 10 | C54 | CD | 15 | | Fiber | 0.7 | 0.05 | 14 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220162 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220162R01

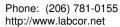
Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/18/2022

Lab/Cor Sample No: S2 Client Sample No: MV616

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comme | ent Count Categories |
|----|-----|------|-----|----------|-------|---------|--------|--------|------------|----------|---------|------------------------------|
| G5 | 1 | C31 | CD | 2 | Fiber | 1.75 | 0.1 | 17.5 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |
| G5 | 2 | C32 | | | NSD | | | | | | | |
| G5 | 3 | E31 | | | NSD | | | | | | | |
| G5 | 4 | E32 | | | NSD | | | | | | | |
| G5 | 5 | F31 | | | NSD | | | | | | | |
| G5 | 6 | F32 | | | NSD | | | | | | | |
| G5 | 7 | G31 | | | NSD | | | | | | | |
| G6 | 8 | E24 | | | NSD | | | | | | | |
| G6 | 9 | F23 | | | NSD | | | | | | | |
| G6 | 10 | F24 | | | NSD | | | | | | | |
| G5 | 11 | H31 | | | NSD | | | | | | | |
| G5 | 12 | H32 | | | NSD | | | | | | | |
| G5 | 13 | K31 | | | NSD | | | | | | | |
| G5 | 14 | C33 | | | NSD | | | | | | | |
| G5 | 15 | C34 | | | NSD | | | | | | | |
| G5 | 16 | E33 | CDQ | 1 | Fiber | 2 | 0.1 | 20 | Chrysotile | Mg, Si | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | Item | туре | ItemNı | ım | | Confirm | ned (| Comment |
| | | | | | Brig | htfield | J6765 | 1BF | | | | |
| | | | | | Diff | raction | J6765 | 1DF | | SB 2/2 | 21/2022 | 0.53nm ROW SPACING |
| | | | | | Spe | ectra | J6765 | 1SP | | SB 2/2 | 21/2022 | |

Lab/Cor Sample No: S3 Client Sample No: MV617

| Gr | No. | Loc. | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Elements | Comr | ment | Count Categories |
|----|-----|------|-----|------|-----|------------|---------|--------|--------|------------|-----------------------|---------|-----------|-----------------------------|
| G5 | 1 | F42 | ADQ | 1 | | Fiber | 2.55 | 0.3 | 8.5 | Actinolite | Mg, Al, Si, Ca, Fe | , | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | | Item | Туре | ItemNı | ım | | Confirr | med | Comment | |
| | | | | | | Brig | htfield | J6765 | 3BF | | | | | |
| | | | | | | Diffr | raction | J6765 | 3DF | | SB 2/2 | 21/2022 | 0.53nm R0 | OW SPACING |
| | | | | | | Spe | ctra | J6765 | 3SP | | SB 2/2 | 21/2022 | | |
| G5 | 2 | G41 | | | | NSD | | | | | | | | |
| G5 | 3 | G42 | AD | 2 | | Matrix 1-0 | 6 | 4.5 | 1.3 | Actinolite | | | | ASTM_>=5.0, ASTM_Total |
| G6 | 4 | C34 | AQ | 3 | | Fiber | 2 | 0.2 | 10 | Actinolite | Mg, Al, Si, Ca, Fe | , | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 4 | C34 | AM | 4 | | Fiber | 2.55 | 0.25 | 10.2 | Actinolite | | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 4 | C34 | CDQ | 5 | | Fiber | 1.25 | 0.15 | 8.3 | Chrysotile | Mg, Si | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | | Item | Туре | ltemΝι | ım | | Confire | med | Comment | |
| | | | | | | Brig | htfield | J6765 | 4BF | | | | | |
| | | | | | | Diffr | raction | J6765 | 4DF | | | | 0.53nm R0 | OW SPACING |
| | | | | | | Spe | ctra | J6765 | 4SP | | SB 2/2 | 21/2022 | | |
| G6 | 5 | E33 | СМ | 6 | | Fiber | 1.25 | 0.15 | 8.3 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G6 | 5 | E33 | CM | 7 | | Fiber | 0.75 | 0.1 | 7.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220162 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220162R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/18/2022

Lab/Cor Sample No: S4 Client Sample No: MV618

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comm | nent Count Categories |
|-------|------------------|--------|----------|----------|-------|-----------|--------|------------|--------------|----------|--------|-----------------------------|
| G3 | 1 | F42 | | | NSD | | | | | | | |
| G3 | 2 | G41 | | | NSD | | | | | | | |
| G3 | 3 | G33 | | | NSD | | | | | | | |
| G3 | 4 | G52 | | | NSD | | | | | | | |
| G3 | 5 | H51 | | | NSD | | | | | | | |
| G4 | 6 | F44 | | | NSD | | | | | | | |
| G4 | 7 | G43 | | | NSD | | | | | | | |
| G4 | 8 | G51 | | | NSD | | | | | | | |
| G4 | 9 | C42 | | | NSD | | | | | | | |
| G4 | 10 | E41 | | | NSD | | | | | | | |
| Count | Count Categories | | | | | | | | | | | |
| ASTM | >=5.0 | ASTM A | Asbestos | >=5.0μm | AST | M_0.5-5.0 | ASTM A | sbestos >= | 0.5μm - <5.0 | μm ASTM | _Total | ASTM Total Asbestos >=0.5µm |

Reviewed by:

ASTM Libby-Other >0.5μm

ASTMD_Other

Shauna Bjornson Analyst



LABORATORY CHAIN OF CUSTODY

220162

| Project: Pierce Coll | ege – Olympic South Abatement & Repair | Project #:40535.488 |
|---|--|---|
| Analysis requested: | ASTM Microvac dust sample | Date: 02/17/2022 |
| Relinq'd by/Signature:/ | | Date/Time: 21/7/2022 |
| Received by/Signature: | mit) | Date/Time: 2.17.22 5pm |
| | Email ALL INVOICES to: seattleap@p | bsusa.com |
| E-mail results to: Willem Mager Gregg Middaugh Mark Hiley Tim Ogden Ryan Hunter Prudy Stoudt-McRae | Janet Murphy Kaitlin Soukup Allison Welch Toan Nguyen Peter Stensland Claire Tsai | Holly Tuttle Mike Smith Ferman Fletcher Cameron Budnick Kameron DeMonnin |
| TURN AROUND TIME: 1 Hour 2 Hours 4 Hours | | 5 Days Other |

LOD < 1000

| | | SAMPLE DATA FORM | _ | | | | | |
|----------|------------------------------|--|---------|--|--|--|--|--|
| Sample # | Material | Location | Lab | | | | | |
| MV615 | Dust Area 100cm ² | West Elevation Transformer between Olympic South and North | Lab/cor | | | | | |
| MV616 | Dust Area 100cm ² | South Elevation Robin's Nest wood counter | | | | | | |
| MV617 | Dust Area 100cm ² | Southwest Elevation short shed wood platform floor | | | | | | |
| MV618 | | Field Blank | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | Reviewed by: | | | | | | |
| | | Results Released: | | | | | | |
| | | Fax USPS Email | | | | | | |



ASTM D 5755-09 - Microvac Final Report

Job Number: 220173 Report Number: 220173R01 Report Date: 3/1/2022

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|----------------|-------------------|
| 220173 - S1 | MV619 | ASTM D 5755-09 - Microvac | | 2/22/2022 |
| 220173 - S2 | MV620 | ASTM D 5755-09 - Microvac | | 2/22/2022 |
| 220173 - S3 | MV621 | ASTM D 5755-09 - Microvac | | 2/22/2022 |
| 220173 - S4 | MV622 | ASTM D 5755-09 - Microvac | | 2/22/2022 |
| 220173 - S5 | MV623 | ASTM D 5755-09 - Microvac | | 2/22/2022 |
| 220173 - S6 | MV624 | ASTM D 5755-09 - Microvac | | 2/22/2022 |
| 220173 - S7 | MV625 | ASTM D 5755-09 - Microvac | | 2/23/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely

Kate March **Quality Control Officer**



ASTM D 5755-09 - Microvac Final Report

Job Number: 220173 SEA Report Number: 220173R01
Client: PBS Engineering + Environmental Date Received: 2/22/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV619 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.048

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s) Analysis Date Microscope Magnification
KM 3/1/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Asbestos >=5.0µm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Client Sample No.: MV620

Sample Area/Mass/Volume (cm²): 100

Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.048

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s) Analysis Date Microscope Magnification KM 3/1/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



Volume Taken: 1.5 ml

Phone: (206) 781-0155 http://www.labcor.net

Analytical Sens. (struc/cm2): 803.833

ASTM D 5755-09 - Microvac Final Report

Job Number: 220173 SEA Report Number: 220173R01

Client: PBS Engineering + Environmental Date Received: 2/22/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV621 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.048

Analyst(s) Analysis Date Microscope Magnification
KM 3/1/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4

Client Sample No.: MV622

Sample Area/Mass/Volume (cm²): 100

Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.048

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s)Analysis DateMicroscopeMagnificationKM3/1/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220173 SEA Report Number: 220173R01
Client: PBS Engineering + Environmental Date Received: 2/22/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S5 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV623 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.048

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s) Analysis Date Microscope Magnification
KM 3/1/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S6Sample Area/Mass/Volume (cm²): 100Client Sample No.: MV624Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.048

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 803.833

Analyst(s)Analysis DateMicroscopeMagnificationKM3/1/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 1607.667 | 194.528 - 5807.696 - Poisson | 2 |
| ASTM Asbestos >=5.0μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 803.833 | 0 - 2965.341 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 1607.667 | 194.528 - 5807.696 - Poisson | 2 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220173 SEA Report Number: 220173R01
Client: PBS Engineering + Environmental Date Received: 2/23/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S7 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV625 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.12

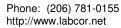
Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 0

Analyst(s) Analysis Date Microscope Magnification
KM 3/1/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 | |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 | |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 | |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 | |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.







ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220173 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220173R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/22/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV619

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | H43 | | | NSD | | | | | | | |
| G4 | 2 | F42 | | | NSD | | | | | | | |
| G4 | 3 | G41 | | | NSD | | | | | | | |
| G5 | 4 | F44 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV620

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Asp | ect Analy | te Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-----------|-----------|-------------|---------|------------------|
| G4 | 1 | G44 | | NSD | | | | | | _ |
| G4 | 2 | H43 | | NSD | | | | | | |
| G4 | 3 | H52 | | NSD | | | | | | |
| G5 | 4 | F42 | | NSD | | | | | | |

Lab/Cor Sample No: S3 Client Sample No: MV621

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|--------------|---------|----------|---------|------------------|
| G4 | 1 | F33 | | NSD | | | | | | |
| G4 | 2 | F42 | | NSD | | | | | | |
| G4 | 3 | G41 | | NSD | | | | | | |
| G5 | 4 | G41 | | NSD | | | | | | |

Lab/Cor Sample No: S4 **Client Sample No:** MV622

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | C32 | | NSD | | | | | | | |
| G4 | 2 | E33 | | NSD | | | | | | | |
| G5 | 3 | E34 | | NSD | | | | | | | |
| G5 | 4 | F41 | | NSD | | | | | | | |

Lab/Cor Sample No: S5 Client Sample No: MV623

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|--------------|---------|----------|---------|-------------------------|
| G4 | 1 | E44 | | NSD | | | | | | |
| G4 | 2 | F52 | | NSD | | | | | | |
| G5 | 3 | F44 | | NSD | | | | | | |
| G5 | 4 | G51 | | NSD | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220173 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220173R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/22/2022

Lab/Cor Sample No: S6 Client Sample No: MV624

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-----|----------|--------|----------|--------|--------|------------|----------|------------|-----------------------------|
| G4 | 1 | G43 | CDQ | 1 | Bundle | 3.3 | 0.17 | 19.4 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Iten | туре | ItemNı | ım | | Confirm | ned Com | iment |
| | | | | | Spe | ectra | J6774 | 0SP | | KM 3/1 | /2022 | |
| | | | | | Diff | raction | J6774 | 0DF | | KM 3/1 | /2022 0.53 | nm ROW SPACING |
| | | | | | Briç | ghtfield | J6774 | 0BF | | | | |
| G4 | 2 | G34 | CMQ | 2 | Fiber | 1.2 | 0.08 | 15 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G5 | 3 | F34 | | | NSD | | | | | | | |
| G5 | 4 | G41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S7
Client Sample No: MV625

| Gr | No. | Loc. | ID Prim | Tot Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-------|--------|-------|---------|-----------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | C32 | | NSD | | | | | | | |
| G4 | 2 | E31 | | NSD | | | | | | | |
| G4 | 3 | E32 | | NSD | | | | | | | |
| G4 | 4 | F33 | | NSD | | | | | | | |
| G4 | 5 | G41 | | NSD | | | | | | | |
| G4 | 6 | G44 | | NSD | | | | | | | |
| G5 | 7 | C42 | | NSD | | | | | | | |
| G5 | 8 | E41 | | NSD | | | | | | | |
| G5 | 9 | E52 | | NSD | | | | | | | |
| G5 | 10 | F51 | | NSD | | | | | | | |
| Count | Catego | ories | | | | | | | | | |

ASTM_0.5-5.0 ASTM Asbestos $>=0.5\mu m$ - $<5.0\mu m$

Reviewed by:

ASTM_>=5.0

ASTMD_Other

Kate March

Quality Control Officer

ASTM Asbestos >=5.0μm

ASTM Libby-Other >0.5µm

ASTM Total Asbestos >=0.5μm

ASTM_Total



LABORATORY CHAIN OF CUSTODY

| alysis requ linq'd by/ | uested: <u>ASTM mic</u> Signature: <u>Peter Ste</u> /Signature: | rovac dust sample nsland // // // // // // // // // // // // // | Date/Time: 2/23 /2022 Date/Time: 2/23 22 3 | :30pm |
|---|---|---|--|-------|
| mail results Brian Star Willem M Gregg Mi Mark Hile Tim Ogd | nford Jager Jiddaugh Jey | ☐ Prudy Stoudt-Model ☐ Janet Murphy ☐ Kaitlin Soukup ☐ Claire Tsai ☐ Holly Tuttle | cRae Mike Smith Ferman Fletcher Ryan Hunter Toan Nguyen Peter Stensland | |
| URN AROU 1 Hour 2 Hours 4 Hours | LOD<1000 | 24 Hours 48 Hours | ∑ 5 Days ☐ Other | - |
| | | SAMPLE DA | TA FORM | 1 |
| Sample # | Material | | Location | Labco |
| MV619 | Dust - 100cm2 area | Skybridge SE | | - |
| /IV620 | Dust - 100cm2 area | Skybridge S Center | | - |
| MV621 | Dust - 100cm2 area | Skybridge SW | | |
| MV622 | Dust - 100cm2 area | Skybridge W Center | | |
| MV623 | Dust - 100cm2 area | Skybridge NE | | |
| MV624 | Dust - 100cm2 area | Skybridge NW | | |
| MV625 | | Field Blank | | |
| | | | | |
| | | | Reviewed by: | |
| | | | Results Released: | |



ASTM D 5755-09 - Microvac Final Report

Job Number: 220237 Report Number: 220237R01 Report Date: 3/10/2022

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|---------------------------|-------------------|
| 220237 - S1 | MV626 | ASTM D 5755-09 - Microvac | Mg, Al, Si Fibers Present | 3/9/2022 |
| 220237 - S2 | MV627 | ASTM D 5755-09 - Microvac | | 3/9/2022 |
| 220237 - S3 | MV628 | ASTM D 5755-09 - Microvac | | 3/9/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15.000 - 20.000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Quality Control Officer



Volume Taken: 1 ml

SB

3/10/2022

Phone: (206) 781-0155 http://www.labcor.net

Analytical Sens. (struc/cm2): 964.6

ASTM D 5755-09 - Microvac Final Report

Job Number: 220237 SEA Report Number: 220237R01
Client: PBS Engineering + Environmental Date Received: 3/9/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

20000

Client Sample No.: MV626 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.05 Grid Openings Analyzed: 5

Residual Ash Vol: 20 ml Final Dilution: 0.05 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.06

Analyst(s) Analysis Date Microscope Magnification

JEOL-Sr 1200

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 | |
| ASTM Asbestos >=5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 | |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV627

Lab Filter Area (mm²): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.0125 Grid Openings Analyzed: 20

Residual Ash Vol: 20 ml Final Dilution: 0.0125 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.24

Volume Taken: 0.25 ml Analytical Sens. (struc/cm2): 964.6

 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 SB
 3/10/2022
 JEOL-Sr 1200
 20000

 KM
 3/10/2022
 JEOL-Sr 1200
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 964.6 | 0 - 3558.409 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220237 SEA Report Number: 220237R01
Client: PBS Engineering + Environmental Date Received: 3/9/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV628 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.012

Begin Volume: 20 ml Area Analyzed (mm2): 0.12

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 0

 Analyst(s)
 Analysis Date
 Microscope
 Magnification

 SB
 3/10/2022
 JEOL-Sr 1200
 20000

 KM
 3/10/2022
 JEOL-Sr 1200
 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220237 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220237R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 3/9/2022

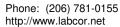
Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV626

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G7 | 1 | G42 | | NSD | | | | | | | |
| G7 | 2 | H41 | | NSD | | | | | | | |
| G7 | 3 | H33 | | NSD | | | | | | | |
| G8 | 4 | F44 | | NSD | | | | | | | |
| G8 | 5 | G43 | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV627

| Gr | No. | Loc. | ID | Prim T | ot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|--------|----|-------|--------|-------|--------|---------|----------|---------|------------------|
| G7 | 1 | C42 | | | | NSD | | | | | | | |
| G7 | 2 | E41 | | | | NSD | | | | | | | |
| G7 | 3 | F42 | | | | NSD | | | | | | | |
| G7 | 4 | G41 | | | | NSD | | | | | | | |
| G7 | 5 | E44 | | | | NSD | | | | | | | |
| G7 | 6 | F43 | | | | NSD | | | | | | | |
| G7 | 7 | F51 | | | | NSD | | | | | | | |
| G7 | 8 | C52 | | | | NSD | | | | | | | |
| G7 | 9 | E51 | | | | NSD | | | | | | | |
| G7 | 10 | C44 | | | | NSD | | | | | | | |
| G8 | 11 | C34 | | | | NSD | | | | | | | |
| G8 | 12 | E33 | | | | NSD | | | | | | | |
| G8 | 13 | F33 | | | | NSD | | | | | | | |
| G8 | 14 | F42 | | | | NSD | | | | | | | |
| G8 | 15 | G41 | | | | NSD | | | | | | | |
| G8 | 16 | G42 | | | | NSD | | | | | | | |
| G8 | 17 | H41 | | | | NSD | | | | | | | |
| G8 | 18 | F51 | | | | NSD | | | | - | | | |
| G8 | 19 | E52 | | | | NSD | | | | | | | |
| G8 | 20 | E51 | | | | NSD | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220237 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 220237R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 3/9/2022

Lab/Cor Sample No: S3
Client Sample No: MV628

| Gr | No. | Loc. | ID | Prim T | ot (| Class | Length | Width | Aspect | Analyte | Eleme | ents (| Comme | nt C | ount Catego | ries |
|-------|--------|--------|----------|-----------|------|-------|-----------|--------|------------|---------------|-------|---------|--------|--------------|----------------|------|
| G4 | 1 | C32 | | | | NSD | | | | | | | | | | |
| G4 | 2 | E31 | | | | NSD | | | | | | | | | | |
| G4 | 3 | E34 | | | | NSD | | | | | | | | | | |
| G4 | 4 | F33 | | | | NSD | | | | | | | | | | |
| G4 | 5 | F41 | | | | NSD | | | | | | | | | | |
| G5 | 6 | G44 | | | | NSD | | | | | | | | | | |
| G5 | 7 | H43 | | | | NSD | | | | | | | | | | |
| G5 | 8 | H51 | | | | NSD | | | | | | | | | | |
| G5 | 9 | F34 | | | | NSD | | | | | | | | | | |
| G5 | 10 | G33 | | | | NSD | | | | | | | | | | |
| Count | Catego | ries | | | | | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM A | Asbestos | s >=5.0μm | | AST | M_0.5-5.0 | ASTM A | sbestos >= | 0.5µm - <5.0լ | μm | ASTM_To | tal AS | STM Total As | bestos >=0.5μr | n |

ASTMD_Other ASTM Libby-Other >0.5μm

Reviewed by:

Kate March

Quality Control Officer



220237 LABORATORY CHAIN OF CUSTODY

| Pr <u>ojec</u> t: | Pierce College Olym | oic South Abatement and Repairs | Project #: <u>40535.488</u> | Page 1 of 1 |
|-------------------|------------------------|--|--|-------------|
| Analysis re | quested: <u>ASTM n</u> | nicrovac dust sample | Date: 3/9/2022 | |
| Reling'd by | /Signature: Peter 5 | enstand / Karaferer | Date/Time: 3/9/2022 | 1357 |
| Received b | y/Signature: #\ | Ru V | Date/Time: 3/9/22 | 1400 |
| | Q | Email ALL INVOICES to: seattleap@pb | • | j |
| E-mail result | | Email ALL INVOICES W. <u>seatheapwpb</u> | SUSA.CUIII | |
| ☐ Brian Sta | inford | Prudy Stoudt-McRae | Mike Smith | |
| Willem N | • | Janet Murphy | Ferman Fletcher | |
| | liddaugh | Kaitlin Soukup | Ryan Hunter | |
| Mark Hil | - | ☐ Claire Tsai | ☐ Toan Nguyen | |
| ☐ Tim Ogo | len | ☐ Hofly Tuttle | Peter Stensland | |
| TURN AROU | IND TIME: | | | |
| 1 Hour | | 24 Hours | Days | |
| 2 Hours | | 48 Hours | X ASAP | |
| 4 Hours | LOD<1000 | | | |
| | | SAMPLE DATA FORM | | |
| Sample # | Material | Location | n | Lab |
| MV626 | Dust - 100cm2 area | Skybridge S Containment NE Corner Lay | er 2 (2 Layers) | Labcor |
| MV627 | Dust - 100cm2 area | Skybridge S Containment SW Skybridge | (1 Layer) | |
| MV628 | | Field Blank | | |
| | | | | |
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| | | Invoice Rele | ased: | |
| <u> </u> | | Fax USPS | 3 Email | |
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ASTM D 5755-09 - Microvac Final Report

Job Number: 220238 Report Number: 220238R01 Report Date: 3/16/2022

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Sampled: | Date Received: |
|--------------|----------------------|---------------------------|----------------|------------------|-------------------|
| 220238 - S1 | MV629 | ASTM D 5755-09 - Microvac | | 3/9/2022 | 3/9/2022 |
| 220238 - S2 | MV630 | ASTM D 5755-09 - Microvac | | 3/9/2022 | 3/9/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Kate March Quality Control Officer



ASTM D 5755-09 - Microvac Final Report

Job Number: 220238 SEA Report Number: 220238R01
Client: PBS Engineering + Environmental Date Received: 3/9/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV629 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.0125 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.0125 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.106

Volume Taken: 0.25 ml Analytical Sens. (struc/cm2): 2184

Analyst(s) Analysis Date Microscope Magnification
KM 3/16/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 4368 | 528.528 - 15779.4 - Poisson | 2 |
| ASTM Asbestos >=5.0μm | < 2184 | 0 - 8056.776 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 2184 | 0 - 8056.776 - Poisson | 0 |
| ASTM Total Asbestos >=0.5µm | 4368 | 528.528 - 15779.4 - Poisson | 2 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV630

Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.025 Average Grid Opening Area: 0.0106

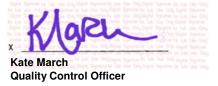
Begin Volume: 20 ml Area Analyzed (mm2): 0.106

Volume Taken: 0.5 ml Analytical Sens. (struc/cm2): 1092

Analyst(s)Analysis DateMicroscopeMagnificationKM3/16/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | 5460 | 1773.408 - 12742.548 - Poisson | 5 |
| ASTM Asbestos >=5.0μm | < 1092 | 0 - 4028.388 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 1092 | 0 - 4028.388 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 5460 | 1773.408 - 12742.548 - Poisson | 5 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220238 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220238R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 3/9/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV629

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comm | nent | Count Categories |
|-----|-----|------|-----|----------|--------|----------|--------|--------|------------|----------|--------|----------|-----------------------------|
| G10 | 1 | C32 | | | NSD | | | | | | | | |
| G10 | 2 | E31 | | | NSD | | | | | | | | |
| G10 | 3 | E34 | | | NSD | | | | | | | | |
| G10 | 4 | F33 | CDQ | 1 | Fiber | 1.75 | 0.05 | 35 | Chrysotile | Mg, Si | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Iten | пТуре | ItemNu | ım | | Confirm | ned | Comment | |
| | | | | | Spe | ectra | J6781 | 7SP | | KM 3/1 | 6/2022 | | |
| | | | | | Diff | fraction | J6781 | 7DF | | KM 3/1 | 6/2022 | 0.53nm R | OW SPACING |
| | | | | | Brig | ghtfield | J6781 | 7BF | | | | | |
| G10 | 5 | F42 | | | NSD | | | | | | | | |
| G10 | 6 | G42 | CD | 2 | Bundle | 1.4 | 0.16 | 8.8 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 7 | C32 | | | NSD | | | | | | | | |
| G11 | 8 | E31 | | | NSD | | | | | | | | |
| G11 | 9 | E34 | | | NSD | | | | | | | | |
| G11 | 10 | F34 | | | NSD | | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV630

| Gr | No. | Loc. | ID | Prim | Tot Cla | ss Length | Width | Aspect | Analyte | Elements | Comr | ment | Count Categories |
|-----|-----|------|-----|------|---------|-------------|-------|--------|------------|----------------------|-----------|-----------|-----------------------------|
| G10 | 1 | C32 | CDQ | 1 | Fib | er 2.2 | 0.1 | 22 | Chrysotile | Mg, Si | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | | ItemType | ItemN | um | | Conf | rmed | Comment | |
| | | | | | | Spectra | J6781 | 8SP | | KM 3 | 3/16/2022 | | |
| | | | | | | Diffraction | J6781 | 8DF | | KM 3 | 3/16/2022 | 0.53nm RC | W SPACING |
| | | | | | | Brightfield | J6781 | 8BF | | | | | |
| G10 | 2 | E31 | | | NS | D | | | | | | | |
| G10 | 3 | E34 | | | NS | D | | | | | | | |
| G10 | 4 | F33 | | | NS | D | | | | | | | |
| G10 | 5 | F42 | | | NS | D | | | | | | | |
| G11 | 6 | C32 | CD | 2 | Fib | er 0.95 | 0.08 | 11.9 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 7 | E31 | ADQ | 3 | Fib | er 2.84 | 0.55 | 5.2 | Actinolite | Mg, Al, S Ca, Mn, | | | ASTM_0.5-5.0, ASTM_Total |
| - | | | | | | ItemType | ItemN | um | | Conf | | Comment | |
| | | | | | | Spectra | J6781 | 9SP | | KM 3 | 3/16/2022 | | |
| | | | | | | Diffraction | J6781 | 9DF | | KM 3 | 3/16/2022 | 0.53nm RC | W SPACING |
| | | | | | | Brightfield | J6781 | 9BF | | | | | |
| G11 | 8 | E34 | | | NS | D | | | | | | | |
| G11 | 9 | F33 | CD | 4 | Fib | er 0.98 | 0.07 | 14 | Chrysotile | | | | ASTM_0.5-5.0, ASTM Total |
| G11 | 9 | F33 | CD | 5 | Bun | dle 2.2 | 0.15 | 14.7 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 10 | F42 | | | NS | D | | | | | | | _ |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220238 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 220238R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 3/9/2022

Count Categories

 $ASTM_>=5.0 \quad ASTM \ Asbestos >= 5.0 \mu m \quad ASTM_Total \quad$

ASTMD_Other ASTM Libby-Other >0.5µm

Reviewed by:

Klapen

Quality Control Officer



LABORATORY CHAIN OF CUSTODY

| | 1/20 0 | Project #: 40535.488 Page 1 of 1 Date: 3/9/2022 Date/Time: 3/9/2022 Date/Time: 3/9/2022 Date/Time: 3/9/2022 |
|---|---|--|
| E-mail results to: Brian Stanford Willem Mager Gregg Middaugh Mark Hiley Tim Ogden | Prudy Stoudt-McRae Janet Murphy Kaitlin Soukup Claire Tsai Holly Tuttle | ✓ Mike Smith ☐ Ferman Fletcher ☐ Ryan Hunter ☐ Toan Nguyen ✓ Peter Stensland |
| TURN AROUND TIME: 1 Hour 2 Hours 4 Hours LOD | 24 Hours 48 Hours | □ |

| | | SAMPLE DATA FORM | - |
|----------|--------------------|--|-------|
| Sample # | Material | Location | Lab |
| MV629 | Dust - 100cm2 area | Playground Tunnel | Labco |
| | Dust - 100cm2 area | Playground Yellow and Orange Equipment | |
| MV630 | Dust - 100cm2 area | T layground 1 and 1 | |
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| | | Results Released: | 1 |
| | | Fax Verbals USPS Email Invoice Released: | |
| | | Invoice Released | |
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ASTM D 5755-09 - Microvac Final Report

Job Number: 220320 Report Number: 220320R01 Report Date: 3/31/2022

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|----------------|-------------------|
| 220320 - S1 | MV631 | ASTM D 5755-09 - Microvac | | 3/29/2022 |
| 220320 - S2 | MV632 | ASTM D 5755-09 - Microvac | | 3/29/2022 |
| 220320 - S3 | MV633 | ASTM D 5755-09 - Microvac | | 3/29/2022 |
| 220320 - S4 | MV634 | ASTM D 5755-09 - Microvac | | 3/29/2022 |
| 220320 - S5 | MV635 | ASTM D 5755-09 - Microvac | | 3/29/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Quality Control Officer



ASTM D 5755-09 - Microvac Final Report

Job Number: 220320 SEA Report Number: 220320R01
Client: PBS Engineering + Environmental Date Received: 3/29/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV631 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.0424

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 910

Analyst(s) Analysis Date Microscope Magnification
KM 3/30/2022 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV632

Lab Filter Area (mm²): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.0424

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 910

Analyst(s) Analysis Date Microscope Magnification KM 3/30/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220320 SEA Report Number: 220320R01
Client: PBS Engineering + Environmental Date Received: 3/29/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV633 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.0424

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 910

Analyst(s) Analysis Date Microscope Magnification
KM 3/31/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV634

Filter Fraction: 1

Aliquot Dilution: 0.075

Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml

Final Dilution: 0.075

Average Grid Opening Area: 0.0106

Begin Volume:20 mlArea Analyzed (mm2):0.0424Volume Taken:1.5 mlAnalytical Sens. (struc/cm2):910

Analyst(s) Analysis Date Microscope Magnification
KM 3/30/2022 Hitachi 7000FA 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Report Number: 220320R01 Job Number: 220320 SEA Date Received: 3/29/2022 Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Sample Area/Mass/Volume (cm²): 0 Lab/Cor Sample No.: S5

Client Sample No.: MV635 Lab Filter Area (mm2): 289.38

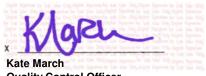
Aliquot Dilution: 0.075 Filter Fraction: 1 Grid Openings Analyzed: 10 Final Dilution: 0.075 Residual Ash Vol: 20 ml Average Grid Opening Area: 0.0106 Begin Volume: 20 ml Area Analyzed (mm2): 0.106

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 0

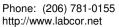
Analyst(s) **Analysis Date** Microscope Magnification 3/30/2022 Hitachi 7000FA 20000 KM

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



Quality Control Officer





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220320 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220320R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 3/29/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV631

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G3 | 1 | K43 | | | NSD | | | | | | | |
| G3 | 2 | H43 | | | NSD | | | | | | | |
| G3 | 3 | G43 | | | NSD | | | | | | | |
| G4 | 4 | F43 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV632

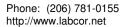
| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width As | pect A | nalyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|----------|--------|--------|----------|---------|-------------------------|
| G3 | 1 | H43 | | NSD | | | | | | | |
| G3 | 2 | G52 | | NSD | | | | | | | |
| G3 | 3 | F51 | | NSD | | | | | | | |
| G4 | 4 | F44 | | NSD | | | | | | | |

Lab/Cor Sample No: S3
Client Sample No: MV633

| Gr | No. | Loc. | ID | Prim 7 | Γot Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|--------|-----------|--------|-------|--------|---------|----------|--|------------------|
| G3 | 1 | G34 | | | NSD | | | | | | Lots of Mg, Al, Si fibers present. | |
| G3 | 2 | H41 | | | NSD | | | | | | | |
| G4 | 3 | E34 | | | NSD | | | | | | | |
| G4 | 4 | F41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S4 Client Sample No: MV634

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|--------------------------------------|------------------|
| G3 | 1 | G43 | | | NSD | | | | | | Many Mg, Al, Si fibers present | |
| G3 | 2 | F52 | | | NSD | | | | | | | |
| G3 | 3 | E54 | | | NSD | | | | | | | |
| G4 | 4 | E41 | | | NSD | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220320 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220320R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 3/29/2022

Lab/Cor Sample No: S5 Client Sample No: MV635

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-------|----------|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G3 | 1 | F53 | | | NSD | | | | | | | |
| G3 | 2 | E54 | | | NSD | | | | | | | |
| G3 | 3 | E53 | | | NSD | | | | | | | |
| G3 | 4 | C54 | | | NSD | | | | | | | |
| G3 | 5 | C53 | | | NSD | | | | | | | |
| G4 | 6 | G43 | | | NSD | | | | | | | |
| G4 | 7 | F44 | | | NSD | | | | | | | |
| G4 | 8 | F43 | | | NSD | | | | | | | |
| G4 | 9 | E44 | | | NSD | | | | | | | |
| G4 | 10 | E43 | | | NSD | | | | | | | |
| Count | · Catoac | rico | | | | | | | | | | |

Count Categories

ASTM_>=5.0 ASTM Asbestos >=5.0µm ASTM_0.5-5.0 ASTM Asbestos >=0.5µm - <5.0µm ASTM_Total ASTM_Total Asbestos >=0.5µm

ASTMD_Other ASTM Libby-Other >0.5μm

Reviewed by:

Kate March

Quality Control Officer



LABORATORY CHAIN OF CUSTODY

| Project: | Pierce College Olym | pic South Abatement and Repairs | Project #: 40535.488 | Page 1 of 1 |
|---|------------------------------------|---|--|-------------|
| Analysis re | quested: ASTM r | microvac dust sample | Date: 3/29/2022 | |
| Reling'd by | y/Signature: <u>Camero</u> | on Budnick / Marie Marie | Date/Time: 3/29/2022 | :55 |
| Received b | y/Signature: | 7-2 | Date/Time: 3/24/23 | 15:33 |
| | | Email ALL INVOICES to: seattleap | | |
| E-mail result Brian Sta Willem N Gregg M Mark Hil Tim Ogd | anford Mager Middaugh Jey | Prudy Stoudt-McRae Janet Murphy Kaitlin Soukup Claire Tsai Holly Tuttle | Mike Smith Ferman Fletcher Ryan Hunter Toan Nguyen Peter Stensland | |
| TURN AROU 1 Hour 2 Hours 4 Hours | | 24 Hours 48 Hours | ☐ 5 Days ☐ Thursday 3/31 by no | oon |
| | LOD<1000 | | | |
| | | SAMPLE DATA FORM | | |
| Sample # | Material | Loc | ation | Lab |
| MV631 | Dust - 100cm2 area | Olympic North Hallway ceiling fire jur | nction box near Room 203 | Labcor |
| MV632 | Dust - 100cm2 area | Olympic North Room 228 east wall n | orth 4" blank conduit | |
| MV633 | Dust - 100cm2 area | Olympic North Room 228 east wall s | outh 4" blank conduit | |
| MV634 | Dust - 100cm2 area | Olympic North Room 228 Santa Box | | |
| MV635 | | Field blank | | |
| | | | | |
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ASTM D 5755-09 - Microvac Report

Job Number: 220355 Report Number: 220355R01 Report Date: 4/11/2022

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|----------------|-------------------|
| 220355 - S1 | MV636 | ASTM D 5755-09 - Microvac | | 4/6/2022 |
| 220355 - S2 | MV637 | ASTM D 5755-09 - Microvac | | 4/6/2022 |
| 220355 - S3 | MV638 | ASTM D 5755-09 - Microvac | | 4/6/2022 |
| 220355 - S4 | MV639 | ASTM D 5755-09 - Microvac | | 4/6/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Shauna Biornso

Analyst



ASTM D 5755-09 - Microvac Final Report

Job Number: 220355 SEA Report Number: 220355R01
Client: PBS Engineering + Environmental Date Received: 4/6/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV636 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.0424

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 910

Analyst(s) Analysis Date Microscope Magnification
SB 4/11/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Client Sample No.: MV637

Sample Area/Mass/Volume (cm²): 100

Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.0424

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 910

Analyst(s) Analysis Date Microscope Magnification SB 4/11/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220355 SEA Report Number: 220355R01
Client: PBS Engineering + Environmental Date Received: 4/6/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV638 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.0424

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 910

Analyst(s)Analysis DateMicroscopeMagnificationSB4/11/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV639

Filter Fraction: 1

Aliquot Dilution: 0.075

Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml

Begin Volume: 20 ml

Area Analyzed (mm2): 0.0424

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 910

Analyst(s) Analysis Date Microscope Magnification
SB 4/11/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Shauna Bjornson

Analyst

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220355 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220355R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/6/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV636

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width A | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|---------|--------|---------|----------|---------|------------------|
| G4 | 1 | F44 | | NSD | | | | | | | |
| G4 | 2 | G43 | | NSD | | | | | | | |
| G5 | 3 | C42 | | NSD | | | | | | | |
| G5 | 4 | E41 | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV637

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width As | spect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|----------|-------|---------|----------|---------|-------------------------|
| G4 | 1 | F51 | | NSD | | | | | | | |
| G4 | 2 | F43 | | NSD | | | | | | | |
| G5 | 3 | E42 | | NSD | | | | | | | |
| G5 | 4 | F41 | | NSD | | | | | | | |

Lab/Cor Sample No: S3
Client Sample No: MV638

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | E44 | | NSD | | | | | | | |
| G4 | 2 | F43 | | NSD | | | | | | | |
| G5 | 3 | E44 | | NSD | | | | | | | |
| G5 | 4 | F43 | | NSD | | | | | | | |

Lab/Cor Sample No: S4 Client Sample No: MV639

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Asp | ect Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-----------|-------------|----------|---------|------------------|
| G4 | 1 | E44 | | NSD | | | | | | _ |
| G4 | 2 | F43 | | NSD | | | | | | |
| G5 | 3 | F44 | | NSD | | | | | | |
| G5 | 4 | G43 | | NSD | | | | | | |

Count Categories

ASTM_>=5.0 ASTM Asbestos >=5.0μm ASTM_0.5-5.0 ASTM Asbestos >=0.5μm - <5.0μm ASTM_Total Asbestos >=0.5μm

ASTMD_Other ASTM Libby-Other >0.5μm

Reviewed by:

Shauna Bjornson

Analyst



LABORATORY CHAIN OF CUSTODY

| Project: | Pierce College Olym | pic South Abatement and Repairs Project #: 40535.488 Pa | ge 1 of 1 |
|---|--|--|-------------------------|
| Analysis re | quested: <u>ASTM n</u> | nicrovac dust sample Date: 4/6/2022 | |
| Reling'd by | //Signature: <u>Peter St</u> | ensland / Petro Stare Date/Time: 4/6/2022 | |
| Received b | y/Signature: | Date/Time: 41/4/22 41 | 30 pm |
| | | Email ALL INVOICES to: seattleap@pbsusa.com | |
| E-mail result Brian Sta Willem N Gregg M Mark Hil Tim Ogc TURN AROL 1 Hour | ts to: anford Mager 1iddaugh Iey den | □ Prudy Stoudt-McRae ☑ Mike Smith □ Janet Murphy ☐ Ferman Fletcher □ Kaitlin Soukup ☐ Ryan Hunter ☑ Claire Tsai ☐ Toan Nguyen ☐ Holly Tuttle ☑ Peter Stensland | |
| 2 Hours 4 Hours | LOD<1000 | | |
| | | SAMPLE DATA FORM | |
| Sample # | Material | Location | Lab |
| MV636 | Dust - 100cm2 area | E Skybridge Large Blank N Conduit to Olympic N | Labcor |
| MV637 | Dust - 100cm2 area | E Skybridge Large Blank S Conduit to Olympic N | |
| MV638 | Dust - 100cm2 area | Olympic North Emergency Power Junction Box S conduit (group of 4) | |
| MV639 | Dust - 100cm2 area | Olympic North Radiant Heat Junction Box N Panel Along Construct. Wall | |
| | | | |
| | | | |
| | | | |
| | | Reviewed by: Results Released: USBS Email | |
| | | Verbals USFS | |
| | | Invoice Released: | |
| | | | |
| | | | |



ASTM D 5755-09 - Microvac Report

Job Number: 220372 Report Number: 220372R01 Report Date: 4/14/2022

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|---------------------------------|-------------------|
| 220372 - S1 | MV640 | ASTM D 5755-09 - Microvac | | 4/11/2022 |
| 220372 - S2 | MV641 | ASTM D 5755-09 - Microvac | Many Mg, Al, Si fibers present. | 4/11/2022 |
| 220372 - S3 | MV642 | ASTM D 5755-09 - Microvac | | 4/11/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15.000 - 20.000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Quality Control Officer



ASTM D 5755-09 - Microvac Final Report

Job Number: 220372 SEA Report Number: 220372R01

Client: PBS Engineering + Environmental Date Received: 4/11/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV640 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.0424

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 910

Analyst(s) Analysis Date Microscope Magnification
KM 4/14/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Client Sample No.: MV641

Sample Area/Mass/Volume (cm²): 100

Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 11

Residual Ash Vol: 20 ml
Begin Volume: 20 ml
Volume Taken: 0.5 ml

Aliquot Dilution: 0.025 Grid Openings Analyzed: 11

Average Grid Opening Area: 0.0106
Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.1166
Analytical Sens. (struc/cm2): 992.727

Analyst(s) Analysis Date Microscope Magnification
KM 4/14/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220372 SEA Report Number: 220372R01

Client: PBS Engineering + Environmental Date Received: 4/11/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV642 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.0106

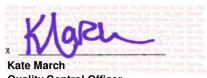
Begin Volume: 20 ml Area Analyzed (mm2): 0.106

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 0

Analyst(s) Analysis Date Microscope Magnification
KM 4/14/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220372 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220372R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/11/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV640

| Gr | No. | Loc. | ID Prir | m Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|---------|-------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | E34 | | | NSD | | | | | | | |
| G4 | 2 | F41 | | | NSD | | | | | | | |
| G5 | 3 | E34 | | | NSD | | | | | | | |
| G5 | 4 | F41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV641

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G10 | 1 | B42 | | | NSD | | | | | | | |
| G10 | 2 | C41 | | | NSD | | | | | | | |
| G10 | 3 | C44 | | | NSD | | | | | | | |
| G10 | 4 | E43 | | | NSD | | | | | | | |
| G10 | 5 | E52 | | | NSD | | | | | | | |
| G10 | 6 | F51 | | | NSD | | | | | | | |
| G11 | 7 | C34 | | | NSD | | | | | | | |
| G11 | 8 | E33 | | | NSD | | | | | | | |
| G11 | 9 | E42 | | | NSD | | | | | | | |
| G11 | 10 | F41 | | | NSD | | | | | | | |
| G11 | 11 | F52 | | | NSD | | | | | | | |

Lab/Cor Sample No: S3 Client Sample No: MV642

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | C34 | | | NSD | | | | | | | |
| G4 | 2 | E33 | | | NSD | | | | | | | |
| G4 | 3 | E42 | | | NSD | | | | | | | |
| G4 | 4 | F41 | | | NSD | | | | | | | |
| G4 | 5 | F44 | | | NSD | | | | | | | |
| G4 | 6 | G43 | | | NSD | | | | | | | |
| G5 | 7 | C34 | | | NSD | | | | | | | |
| G5 | 8 | E33 | | | NSD | | | | | | | |
| G5 | 9 | E42 | | | NSD | | | | | | | |
| G5 | 10 | F41 | | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220372 SEA Ref. D5755-09

Client: PBS Engineering + EnvironmentalReport Number: 220372R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 4/11/2022

Count Categories

ASTM_>=5.0 ASTM Asbestos >=5.0µm ASTM_0.5-5.0 ASTM Asbestos >=0.5µm - <5.0µm ASTM_Total ASTM Total Asbestos >=0.5µm

ASTMD_Other ASTM Libby-Other >0.5µm

Reviewed by:

Klaren

Quality Control Officer



220372 LABORATORY CHAIN OF CUSTODY

| Project: _ | Pierce College Olym | pic South Abatement and Repairs | Project #: 40535.488 | age 1 of 1 |
|--------------------------|---------------------------------------|------------------------------------|------------------------------|------------|
| The second second second | Carlotte and the second second second | microvac dust sample | Date: 4/11/2022 | |
| Reling'd b | y/Signature: Peter S | tensland / Petre Hund | Date/Time: 4/11/2022 | |
| Received I | oy/Signature: Mud | try | Date/Time: 4/11/22 5pm | 4 |
| | | Email ALL INVOICES to: seattlea | p@pbsusa.com | |
| E-mail resu Brian St | | Durate Charlet Made | Mike Smith | |
| ☐ Willem | | ☐ Prudy Stoudt-McRae☐ Janet Murphy | Ferman Fletcher | |
| | Middaugh | Kaitlin Soukup | Ryan Hunter | |
| Mark H | | Claire Tsai | Toan Nguyen | |
| ☐ Tim Og | den | ☐ Holly Tuttle | Peter Stensland | |
| TURN ARO | UND TIME: | 4 | | |
| 1 Hour | | 24 Hours | | |
| 2 Hours 4 Hours | | 48 Hours | Ш | |
| 4 Hours | LOD<1000 | | | |
| | | SAMPLE DATA FOR | М | |
| Sample # | Material | | ocation | Lab |
| MV640 | Dust - 100cm2 area | Olympic N Room 228 S Central Co | nduit with large black wires | Labcor |
| MV641 | Dust - 100cm2 area | Olympic N Room 228 SW floor | | |
| MV642 | - | Field Blank | | |
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ASTM D 5755-09 - Microvac Report

Job Number: 220429 Report Number: 220429R01 Report Date: 4/26/2022

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|----------------------------|-------------------|
| 220429 - S1 | MV643 | ASTM D 5755-09 - Microvac | Many Al, Si Fibers Present | 4/25/2022 |
| 220429 - S2 | MV644 | ASTM D 5755-09 - Microvac | Many Al, Si Fibers Present | 4/25/2022 |
| 220429 - S3 | MV645 | ASTM D 5755-09 - Microvac | Many Al, Si Fibers Present | 4/25/2022 |
| 220429 - S4 | MV646 | ASTM D 5755-09 - Microvac | | 4/25/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Shauna Biornso

Analyst



Analytical Sens. (struc/cm2): 910

ASTM D 5755-09 - Microvac Final Report

Report Number: 220429R01 SEA Job Number: 220429 Date Received: 4/25/2022 Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm2): 100

Client Sample No.: MV643 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.05 Grid Openings Analyzed: 6 Final Dilution: 0.05 Residual Ash Vol: 20 ml Average Grid Opening Area: 0.0106 Begin Volume: 20 ml Area Analyzed (mm2): 0.0636 Volume Taken: 1 ml

Analysis Date Magnification Microscope

Analyst(s) SB 4/26/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Sample Area/Mass/Volume (cm²): 100 Client Sample No.: MV644 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.05 **Grid Openings Analyzed:** 6 Residual Ash Vol: 20 ml Final Dilution: 0.05 Average Grid Opening Area: 0.0106 Begin Volume: 20 ml Area Analyzed (mm2): 0.0636 Volume Taken: 1 ml Analytical Sens. (struc/cm2): 910

Analyst(s) **Analysis Date** Microscope Magnification SB 4/26/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220429 SEA Report Number: 220429R01
Client: PBS Engineering + Environmental Date Received: 4/25/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV645 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.0424

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 910

Analyst(s) Analysis Date Microscope Magnification SB 4/26/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5µm - <5.0µm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV646

Filter Fraction: 1

Aliquot Dilution: 0.075

Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml

Begin Volume: 20 ml

Area Analyzed (mm2): 0.0106

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 0

Analyst(s)Analysis DateMicroscopeMagnificationSB4/26/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5µm | NA | Not Applicable | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Shauna Bjornson

Analyst

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220429 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220429R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/25/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV643

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G10 | 1 | E44 | | | NSD | | | | | | | |
| G10 | 2 | F43 | | | NSD | | | | | | | |
| G10 | 3 | F52 | | | NSD | | | | | | | |
| G11 | 4 | E24 | | | NSD | | | | | | | |
| G11 | 5 | F23 | | | NSD | | | | | | | |
| G11 | 6 | F31 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: MV644

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|-------------------------|
| G7 | 1 | F34 | | | NSD | | | | | | | |
| G7 | 2 | G33 | | | NSD | | | | | | | |
| G7 | 3 | G41 | | | NSD | | | | | | | |
| G8 | 4 | F31 | | | NSD | | | | | | | |
| G8 | 5 | F23 | | | NSD | | | | | | | |
| G8 | 6 | E24 | | | NSD | | | | | | | |

Lab/Cor Sample No: S3 **Client Sample No:** MV645

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width A | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|---------|--------|---------|----------|---------|------------------|
| G7 | 1 | F34 | | NSD | | | | | | | |
| G7 | 2 | G33 | | NSD | | | | | | | |
| G8 | 3 | E42 | | NSD | | | | | | | |
| G8 | 4 | F41 | | NSD | | | | | | | |

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|-------------------------|
| G4 | 1 | E52 | | | NSD | | | | | | | |
| G4 | 2 | F51 | | | NSD | | | | | | | |
| G4 | 3 | F43 | | | NSD | | | | | | | |
| G4 | 4 | C42 | | | NSD | | | | | | | |
| G4 | 5 | E41 | | | NSD | | | | | | | |
| G5 | 6 | E42 | | | NSD | | | | | | | |
| G5 | 7 | F41 | | | NSD | | | | | | | |
| G5 | 8 | F33 | | | NSD | | | | | | | |
| G5 | 9 | C24 | | | NSD | | | | | | | |
| G5 | 10 | E23 | | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data -**Final Report**

Ref. D5755-09 Job Number: 220429 SEA

Client: PBS Engineering + Environmental Report Number: 220429R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/25/2022

Count Categories

ASTM_>=5.0 ASTM Asbestos $>=5.0 \mu m$ $ASTM_0.5\text{--}5.0 \quad ASTM \ Asbestos >= 0.5 \mu m \ \text{--} < 5.0 \mu m$ ASTM_Total ASTM Total Asbestos $>=0.5\mu m$

ASTMD_Other ASTM Libby-Other >0.5μm

Reviewed by:

Analyst



220429 LABORATORY CHAIN OF CUSTODY

| | | npic South Abatement and Repairs | | 1 of 1 |
|----------------------------|--|---|--|--------|
| | by/Signature: Peter S | microvac dust sample Stensland + MMMT-SCL | Date: 4/22/2022 Date/Time: 4/22/2022 | |
| Received | by/Signature: | ed 10 | | 7.00 a |
| | | Email ALL INVOICES to: seattleap@p | bsusa.com | |
| Willem Gregg Mark H Tim Og | tanford Mager Middaugh liley Joden UND TIME: | Prudy Stoudt-McRae Janet Murphy Kaitlin Soukup Claire Tsai Holly Tuttle 24 Hours 48 Hours EOD 4/27 | Mike Smith Ferman Fletcher Ryan Hunter Toan Nguyen Peter Stensland | |
| | LOD<1000 | | | |
| | | SAMPLE DATA FORM | | |
| Sample # | Material | Locatio | on | Lab |
| MV643 | Dust - 100cm2 area | Olympic South level 3 northwest roof co | ver southeast insulation La | abcor |
| MV644 | Dust - 100cm2 area | Olympic South level 3 large south roof of | over northeast insulation | |

| | | SAMPLE DATA FORM | | | | | | |
|----------|--------------------|---|--|-----|--|--|--|--|
| Sample # | Material | Loc | ation | Lab | | | | |
| MV643 | Dust - 100cm2 area | Olympic South level 3 northwest root | ympic South level 3 northwest roof cover southeast insulation | | | | | |
| MV644 | Dust - 100cm2 area | | lympic South level 3 large south roof cover northeast insulation | | | | | |
| MV645 | Dust - 100cm2 area | Dlympic South level 3 large south roof cover southeast insulation | | | | | | |
| MV646 | 7 | Field Blank | | | | | | |
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ASTM D 5755-09 - Microvac Report

Job Number: 220430 Report Number: 220430R01 Report Date: 4/27/2022

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|---------------------------|----------------|-------------------|
| 220430 - S1 | MV647 | ASTM D 5755-09 - Microvac | | 4/25/2022 |
| 220430 - S2 | MV648 | ASTM D 5755-09 - Microvac | | 4/25/2022 |
| 220430 - S3 | MV649 | ASTM D 5755-09 - Microvac | | 4/25/2022 |
| 220430 - S4 | MV650 | ASTM D 5755-09 - Microvac | | 4/25/2022 |
| 220430 - S5 | MV651 | ASTM D 5755-09 - Microvac | | 4/25/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Kate March **Quality Control Officer**



ASTM D 5755-09 - Microvac Final Report

Job Number: 220430 SEA Report Number: 220430R01
Client: PBS Engineering + Environmental Date Received: 4/25/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV647 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.05 Grid Openings Analyzed: 6

Residual Ash Vol: 20 ml Final Dilution: 0.05 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.0636

Volume Taken: 1 ml Analytical Sens. (struc/cm2): 910

Analyst(s) Analysis Date Microscope Magnification
SB 4/27/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 910 | 22.75 - 5070.52 - Poisson | 1 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 910 | 22.75 - 5070.52 - Poisson | 1 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Client Sample No.: MV648

Sample Area/Mass/Volume (cm²): 100

Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 11

Residual Ash Vol: 20 ml Final Dilution: 0.025 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.1166

Volume Taken: 0.5 ml Analytical Sens. (struc/cm2): 992.727

Analyst(s) Analysis Date Microscope Magnification
SB 4/27/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220430 SEA Report Number: 220430R01
Client: PBS Engineering + Environmental Date Received: 4/25/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV649 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed : 11

Residual Ash Vol: 20 ml Final Dilution: 0.025 Average Grid Opening Area : 0.0106

Begin Volume: 20 ml Area Analyzed (mm2) : 0.1166

Volume Taken: 0.5 ml Analytical Sens. (struc/cm2): 992.727

Analyst(s) Analysis Date Microscope Magnification
SB 4/27/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4

Client Sample No.: MV650

Sample Area/Mass/Volume (cm²): 100

Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 11

Residual Ash Vol: 20 ml
Begin Volume: 20 ml
Volume Taken: 0.5 ml

Aliquot Dilution: 0.025 Grid Openings Analyzed: 11

Average Grid Opening Area: 0.0106

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.1166

Analytical Sens. (struc/cm2): 992.727

Analyst(s) Analysis Date Microscope Magnification SB 4/27/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Report Number: 220430R01 Job Number: 220430 SEA Date Received: 4/25/2022 Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S5 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV651 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.0125 Grid Openings Analyzed: 22 Residual Ash Vol: 20 ml Final Dilution: 0.0125 Average Grid Opening Area: 0.0106 Begin Volume: 20 ml Area Analyzed (mm2): 0.2332

Volume Taken: 0.25 ml Analytical Sens. (struc/cm2): 992.727

Analyst(s) **Analysis Date** Magnification Microscope SB 4/27/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220430 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220430R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/25/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV647

| Gr | No. | Loc. | ID | Prim T | ot Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-----|--------|----------|----------|--------|--------|------------------------------|-----------------------|---------------|------------------------------|
| G7 | 1 | E42 | NAS | 1 | Matrix | 10 | 5 | 2 | Non Asbestos Structure | Mg, Al, Si, Ca, Fe | Mg-Hornblend | de |
| | | | | | Iten | туре | ItemNu | ım | | Confirm | ed Comm | ent |
| | | | | | Brig | ghtfield | J68130 | OBF | | | | |
| | | | | | Diff | raction | J68130 | DDF | | SB 4/2 | 7/2022 0.53nn | n ROW SPACING |
| | | | | | Spe | ectra | J68130 | OSP | | SB 4/2 | 7/2022 | |
| G7 | 2 | F41 | | | NSD | | | | | | | |
| G7 | 3 | F33 | | | NSD | | | | | | | |
| G8 | 4 | E43 | | | NSD | | | | | | | |
| G8 | 5 | C54 | ADQ | 2 | Fiber | 3 | 0.25 | 12 | Actinolite | Mg, Si, Ca, Fe | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | Iten | туре | ItemNu | ım | | Confirm | ed Comm | ent |
| | | | | | Brig | ghtfield | J6813 | 1BF | | | | |
| | | | | | Diff | raction | J6813 | 1DF | | SB 4/2 | 7/2022 0.53nn | n ROW SPACING |
| | | | | | Spe | ectra | J6813 | 1SP | | SB 4/2 | 7/2022 | |
| G8 | 6 | C62 | | | NSD | | | | | | | |

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G10 | 1 | E34 | | | NSD | | | | | | | |
| G10 | 2 | F33 | | | NSD | | | | | | | |
| G10 | 3 | F41 | | | NSD | | | | | | | |
| G10 | 4 | G32 | | | NSD | | | | | | | |
| G10 | 5 | G24 | | | NSD | | | | | | | |
| G10 | 6 | G23 | | | NSD | | | | | | | |
| G11 | 7 | F52 | | | NSD | | | | | | | |
| G11 | 8 | G51 | | | NSD | | | | | | | |
| G11 | 9 | G43 | | | NSD | | | | | | | |
| G11 | 10 | H54 | | | NSD | | | | | | | |
| G11 | 11 | H62 | | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220430 SEA Ref. D5755-09

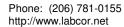
Client: PBS Engineering + Environmental Report Number: 220430R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/25/2022

Lab/Cor Sample No: S3 Client Sample No: MV649

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-----|-----|------|-----|----------|-------|---------|--------|--------|------------------------------|-----------------------|---------------|------------------|
| G10 | 1 | G42 | | | NSD | | | | | | | |
| G10 | 2 | H41 | NAS | 1 | Fiber | 2 | 0.3 | 6.7 | Non Asbestos Structure | Mg, Al, Si, Ca, Fe | Mg-Hornblende | |
| | | | | | Item | Туре | ltemΝι | ım | | Confirm | ed Comment | |
| | | | | | - | htfield | J6813 | | | | | |
| | | | | | | raction | J6813 | | | | | OW SPACING |
| | | | | | Spe | ctra | J6813 | BSP | | SB 4/2 | 7/2022 | |
| G10 | 3 | H33 | | | NSD | | | | | | | |
| G10 | 4 | C52 | | | NSD | | | | | | | |
| G10 | 5 | C44 | | | NSD | | | | | | | |
| G10 | 6 | E42 | | | NSD | | | | | | | |
| G11 | 7 | E42 | | | NSD | | | | | | | |
| G11 | 8 | F41 | | | NSD | | | | | | | |
| G11 | 9 | F33 | | | NSD | | | | | | | |
| G11 | 10 | H31 | | | NSD | | | | | | · | |
| G11 | 11 | H23 | | | NSD | | | | | | | |

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G10 | 1 | E44 | | | NSD | | | | | | | _ |
| G10 | 2 | F43 | | | NSD | | | | | | | |
| G10 | 3 | F51 | | | NSD | | | | | | | |
| G10 | 4 | C42 | | | NSD | | | | | | | |
| G10 | 5 | C34 | | | NSD | | | | | | | |
| G10 | 6 | E33 | | | NSD | | | | | | | |
| G11 | 7 | C44 | | | NSD | | | | | | | |
| G11 | 8 | E43 | | | NSD | | | | | | | |
| G11 | 9 | E51 | | | NSD | | | | | | | |
| G11 | 10 | F52 | | | NSD | | | | | | | |
| G11 | 11 | G51 | | | NSD | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220430 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220430R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/25/2022

Lab/Cor Sample No: \$5 Client Sample No: MV651

| Gr | No. | Loc. IE | Prim Tot | Class | Length | Width | Aspect | Analyte | Elemen | ts Com | ment | Count Categories |
|-------|---------|-------------|--------------|-------|-----------|---------|-----------|---------------|--------|----------|---------|-----------------------|
| G10 | 1 | E33 | | NSD | | | | | | | | |
| G10 | 2 | E34 | | NSD | | | | | | | | |
| G10 | 3 | F33 | | NSD | | | | | | | | |
| G10 | 4 | F34 | | NSD | | | | | | | | |
| G10 | 5 | G33 | | NSD | | | | | | | | |
| G10 | 6 | C51 | | NSD | | | | | | | | |
| G10 | 7 | C52 | | NSD | | | | | | | | |
| G10 | 8 | E51 | | NSD | | | | | | | | |
| G10 | 9 | E52 | | NSD | | | | | | | | |
| G10 | 10 | F51 | | NSD | | | | | | | | |
| G10 | 11 | B54 | | NSD | | | | | | | | |
| G11 | 12 | C41 | | NSD | | | | | | | | |
| G11 | 13 | C42 | | NSD | | | | | | | | |
| G11 | 14 | E41 | | NSD | | | | | | | | |
| G11 | 15 | E42 | | NSD | | | | | | | | |
| G11 | 16 | F41 | | NSD | | | | | | | | |
| G11 | 17 | F42 | | NSD | | | | | | | | |
| G11 | 18 | G41 | | NSD | | | | | | | | |
| G11 | 19 | E44 | | NSD | | | | | | | | |
| G11 | 20 | F43 | | NSD | | | | | | | | |
| G11 | 21 | F44 | | NSD | | | | | | | | |
| G11 | 22 | G43 | | NSD | | | | | | | | |
| Count | Categor | ies | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM Asbes | tos >=5.0μm | AST | M_0.5-5.0 | ASTM As | bestos >= | 0.5μm - <5.0μ | ım AS | TM_Total | ASTM To | otal Asbestos >=0.5μm |
| ASTM | D_Other | ASTM Libby- | Other >0.5µm | | | | | | | | | |

Reviewed by:



220 430 LABORATORY CHAIN OF CUSTODY

| Project: _ | Pierce College Olym | pic South Abatement and Repairs | Project #: 40535.488 Pag | ge 1 of 1 |
|---|--|---|--|-------------------------|
| Analysis re | equested: ASTM r | nicrovac dust sample | Date: 4/22/2022 | |
| | y/Signature: Peter S | tensland Charlet San | Date/Time: 4/22/2022 Date/Time: 4/25/22 09. | (Wan |
| | | Email ALL INVOICES to: seattleap@p | obsusa.com | |
| E-mail resul Brian St Willem Gregg M Mark Hi Tim Ogd TURN AROU 1 Hour 2 Hours 4 Hours | anford Mager Aiddaugh Iey den JND TIME: | Prudy Stoudt-McRae Janet Murphy Kaitlin Soukup Claire Tsai Holly Tuttle 24 Hours 48 Hours EOD 4/27 | Mike Smith Ferman Fletcher Ryan Hunter Toan Nguyen Peter Stensland | |
| 4 Hours | LOD<1000 | | | |
| | | SAMPLE DATA FORM | | |
| Sample # | Material | Locati | ion | Lab |
| MV647 | Dust - 100cm2 area | Sunrise building Electrical Room Box fr | om Conduit A | Labcor |
| ETIL TO STORY | | | | |

| | SAMPLE DATA FORM | | |
|--------|---|--------------------|----------|
| Lab | Location | Material | Sample # |
| Labcor | Sunrise building Electrical Room Box from Conduit A | Dust - 100cm2 area | MV647 |
| | Sunrise building Electrical Room Box from Conduit B | Dust - 100cm2 area | MV648 |
| | Sunrise building Electrical Room Box from Conduit C | Dust - 100cm2 area | MV649 |
| | Sunrise building Electrical Room Box from Conduit D | Dust - 100cm2 area | MV650 |
| | Sunrise building Electrical Room Floor behind transformer | Dust - 100cm2 area | MV651 |
| | | | |
| | | | |
| - | | | |
| | | | |
| | | | |
| | Reviewed by: | | |
| | Results Released: | | |
| | Fax Verbals USPS Email Invoice Released: | | |
| | Fax USPS Email | | |
| | | | |
| | | | |
| | Fax Verbals USPS Email Invoice Released: | | |



ASTM D 5755-09 - Microvac Report

Job Number: 220435 Report Number: 220435R01 Client: PBS Engineering + Environmental Report Date: 4/28/2022

Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Sampled: | Date Received: |
|--------------|----------------------|---------------------------|-----------------------------------|------------------|-------------------|
| 220435 - S1 | MV652 | ASTM D 5755-09 - Microvac | | 4/26/2022 | 4/26/2022 |
| 220435 - S2 | MV653 | ASTM D 5755-09 - Microvac | | 4/26/2022 | 4/26/2022 |
| 220435 - S3 | MV654 | ASTM D 5755-09 - Microvac | Many Mg, Al, Si Fibers Present | 4/26/2022 | 4/26/2022 |
| 220435 - S4 | MV655 | ASTM D 5755-09 - Microvac | Many Mg, Al, Si Fibers Present | 4/26/2022 | 4/26/2022 |
| 220435 - S5 | MV656 | ASTM D 5755-09 - Microvac | Many Mg, Al, Si Fibers Present | 4/26/2022 | 4/26/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Analyst



ASTM D 5755-09 - Microvac Final Report

Job Number: 220435 SEA Report Number: 220435R01
Client: PBS Engineering + Environmental Date Received: 4/26/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV652 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.106

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 0

Analyst(s)Analysis DateMicroscopeMagnificationSB4/27/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Client Sample No.: MV653

Sample Area/Mass/Volume (cm²): 100

Lab Filter Area (mm²): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.025 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.106

Volume Taken: 0.5 ml Analytical Sens. (struc/cm2): 1092

Analyst(s)Analysis DateMicroscopeMagnificationKM4/27/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 6552 | 2404.584 - 14261.52 - Poisson | 6 |
| ASTM Asbestos >=5.0μm | < 1092 | 0 - 4028.388 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 1092 | 0 - 4028.388 - Poisson | 0 |
| ASTM Total Asbestos >=0.5µm | 6552 | 2404.584 - 14261.52 - Poisson | 6 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220435 SEA Report Number: 220435R01

Client: PBS Engineering + Environmental Date Received: 4/26/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV654 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.025 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.106

Volume Taken: 0.5 ml Analytical Sens. (struc/cm2): 1092

Analyst(s)Analysis DateMicroscopeMagnificationKM4/27/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | 5460 | 1773.408 - 12742.548 - Poisson | 5 |
| ASTM Asbestos >=5.0μm | < 1092 | 0 - 4028.388 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 1092 | 0 - 4028.388 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 5460 | 1773.408 - 12742.548 - Poisson | 5 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV655

Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.0424

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 910

Analyst(s)Analysis DateMicroscopeMagnificationSB4/27/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220435 SEA Report Number: 220435R01
Client: PBS Engineering + Environmental Date Received: 4/26/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S5 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV656 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 4

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.0424

Volume Taken: 1.5 ml

Analytical Sens. (struc/cm2): 910

Analyst(s)Analysis DateMicroscopeMagnificationSB4/27/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Shauna Bjornson

Analyst



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220435 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220435R01

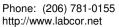
Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/26/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV652

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | F34 | | | NSD | | | | | | | |
| G4 | 2 | G33 | | | NSD | | | | | | | |
| G4 | 3 | H41 | | | NSD | | | | | | | |
| G4 | 4 | F52 | | | NSD | | | | | | | |
| G4 | 5 | G51 | | | NSD | | | | | | | |
| G5 | 6 | E34 | | | NSD | | | | | | | |
| G5 | 7 | F33 | | | NSD | | | | | | | |
| G5 | 8 | F41 | | | NSD | | | | | | | |
| G5 | 9 | F44 | | | NSD | | | | | | | |
| G5 | 10 | G43 | | | NSD | | | | | | | |

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Com | ment | Count Categories |
|-----|-----|------|-----|----------|-------|----------------------|----------------|--------|------------------------------|---------------------|-----------|------------|------------------------------|
| G10 | 1 | B42 | | | NSD | | | | | | | | |
| G10 | 2 | C41 | NAS | 1 | Fiber | 0.95 | 0.11 | 8.6 | Non Asbestos Structure | Mg, Al, S Ca, Fe | | lornblende | |
| G10 | 2 | C41 | CDQ | 2 | Fiber | 2.2 | 0.1 | 22 | Chrysotile | Mg, S | i | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | Iten | пТуре | ItemNu | ım | | Conf | firmed | Comment | |
| | | | | | Spe | ectra | J6813 | 4SP | | KM | 4/27/2022 | | |
| | | | | | | fraction ghtfield | J6813 J6813 | | | KM | 4/27/2022 | 0.53nm R | OW SPACING |
| G10 | 3 | C42 | CD | 3 | Fiber | 1.5 | 0.08 | 18.8 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G10 | 4 | C44 | | | NSD | | | | | | | | |
| G10 | 5 | E52 | CD | 4 | Fiber | 2.6 | 0.12 | 21.7 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | Iten | пТуре | ItemNu | ım | | Conf | firmed | Comment | |
| | | | | | Brig | ghtfield | J6813 | 5BF | | | | | |
| G10 | 6 | F51 | CD | 5 | Fiber | 3.4 | 0.08 | 42.5 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G11 | 7 | E42 | CD | 6 | Fiber | 1.6 | 0.08 | 20 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G11 | 8 | E44 | | | NSD | | | | | | | | |
| G11 | 9 | F43 | CD | 7 | Fiber | 3.1 | 0.07 | 44.3 | Chrysotile | | | | ASTM_Total, ASTM_0.5- 5.0 |
| G11 | 10 | F53 | | | NSD | | | | | | | | |





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220435 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220435R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/26/2022

Lab/Cor Sample No: S3 Client Sample No: MV654

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-----|-----|------|-----|----------|-------------|---------|--------|--------|------------|---------------------------------|-------------|------------------------------|
| G10 | 1 | C34 | | | NSD | | | | | | | |
| G10 | 2 | E33 | | | NSD | | | | | | | |
| G10 | 3 | E42 | | | NSD | | | | | | | |
| G10 | 4 | F42 | ADQ | 1 | Fiber | 2.3 | 0.4 | 5.8 | Tremolite | Mg, Al, Si, K, Ca, Ti, Fe | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | Item | Туре | ItemNı | ım | | Confirme | d Comr | ment |
| | | | | | Spe | ctra | J6813 | 6SP | | KM 4/27 | /2022 | |
| | | | | | Diffi | raction | J6813 | 6DF | | KM 4/27 | /2022 0.53r | nm ROW SPACING |
| | | | | | Brig | htfield | J6813 | 6BF | | | | |
| G10 | 5 | G41 | CDQ | 2 | Fiber | 1.4 | 0.11 | 12.7 | Chrysotile | Mg, Si | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | Item | Туре | ItemNı | ım | | Confirme | d Comr | ment |
| | | | | | Spe | ctra | J6813 | 7SP | | KM 4/27 | /2022 | |
| | | | | | Diffi | raction | J6813 | 7DF | | KM 4/27 | /2022 0.53r | nm ROW SPACING |
| | | | | | Brig | htfield | J6813 | 7BF | | | | |
| G10 | 6 | G43 | ADQ | 3 | Fiber | 4.1 | 0.4 | 10.2 | Tremolite | Mg, Al, Si, Ca, Fe | | ASTM_Total, ASTM_0.5- 5.0 |
| | | | | | Item | Туре | ItemNı | ım | | Confirme | d Comr | ment |
| | | | | | Spe | ctra | J6813 | 8SP | | KM 4/27 | /2022 | |
| | | | | | Diffi | raction | J6813 | 8DF | | KM 4/27 | /2022 0.53r | nm ROW SPACING |
| | | | | | Brig | htfield | J6813 | 8BF | | | | |
| G11 | 7 | E33 | | | NSD | | | | | | | |
| G11 | 8 | F32 | CD | 4 | Cluster 7-0 | 4 | 3 | 1.3 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 9 | E23 | CD | 5 | Fiber | 3.5 | 0.07 | 50 | Chrysotile | | | ASTM_Total, ASTM_0.5- 5.0 |
| G11 | 10 | F23 | | | NSD | | | | | | | |

Lab/Cor Sample No: S4
Client Sample No: MV655

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|--------------|---------|----------|---------|------------------|
| G7 | 1 | F42 | | NSD | | | | | | |
| G7 | 2 | G41 | | NSD | | | | | | |
| G8 | 3 | B34 | | NSD | | | | | | |
| G8 | 4 | C33 | | NSD | | | | | | |

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G7 | 1 | C44 | | NSD | | | | | | | |
| G7 | 2 | E43 | | NSD | | | | | | | |
| G8 | 3 | E42 | | NSD | | | | | | | |
| G8 | 4 | F41 | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220435 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220435R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/26/2022

Count Categories

 $ASTM_>=5.0 \qquad ASTM \ Asbestos>=5.0 \mu m \qquad ASTM_0.5-5.0 \qquad ASTM \ Asbestos>=0.5 \mu m \ -<5.0 \mu m \qquad ASTM_Total \qquad ASTM_Total \$

ASTMD_Other ASTM Libby-Other >0.5µm

Reviewed by:

Digital Digitals by Lot 100 Oct Digital I to Lot Unit Only Digital Digitals for Lot 1

Shauna Bjornson

Analyst

220435



LABORATORY CHAIN OF CUSTODY

| Project | Pierce College Olyn | ipic south Abatement and Repairs | Project #:_ 40535.488 | age 1 of 1 |
|---|--------------------------------------|---|--|------------|
| Analysis re | equested:ASTM | microvac dust sample | Date: 4/26/2022 | |
| Reling'd b | y/Signature: Peter S | itensland / lefe Stay | Date/Time: 4/26/2022 | |
| Received b | oy/Signature: 📈 | - Bon | Date/Time: 4/24/22 | 4:00 pi |
| | | Email ALL INVOICES to: seattleap | @pbsusa.com | |
| E-mail resu Brian St Willem Gregg M Mark Hi Tim Og | ranford Mager Middaugh iley | Prudy Stoudt-McRae Janet Murphy Kaitlin Soukup Claire Tsai Holly Tuttle | ☐ Mike Smith ☐ Ferman Fletcher ☐ Ryan Hunter ☐ Toan Nguyen ☐ Peter Stensland | |
| TURN AROU 1 Hour 2 Hours 4 Hours | | 24 Hours 48 Hours | 3 Days | |
| | | SAMPLE DATA FORM | <u>ju</u> | |
| Sample # | Material | Loc | ation | Lab |
| MV652 | | Field Blank | | Labcor |
| MV653 | Dust - 100cm2 area | Olympic S emergency power large ju | nction box NE | |
| MV654 | Dust - 100cm2 area | Olympic N emergency power large ju | inction box NE | |
| MV655 | Dust - 100cm2 area | Olympic N emergency power large ju | inction box mechanical room | - |
| MV656 | Dust - 100cm2 area | Olympic N emergency power elbow a | at wall penetration mech. room | |
| | | | | |
| | | Reviewed by | y: | |
| | | Results Rel | eased:eased:email | |
| | | Fax Verb Invoice Rel Fax USI | eased: | |
| | | | | |



ASTM D 5755-09 - Microvac Report

Job Number: 220473 Report Number: 220473R02 **Report Date: 5/9/2022**

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Report Note: R01 was the Preliminary Report

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Sampled: | Date Received: |
|--------------|----------------------|---------------------------|--------------------------------------|------------------|-------------------|
| 220473 - S1 | MV657 | ASTM D 5755-09 - Microvac | | 5/5/2022 | 5/5/2022 |
| 220473 - S2 | MV658 | ASTM D 5755-09 - Microvac | | 5/5/2022 | 5/5/2022 |
| 220473 - S3 | MV659 | ASTM D 5755-09 - Microvac | Several Mg, Al, Si Fibers Present | 5/5/2022 | 5/5/2022 |

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Shauna Bjornso

Analyst



ASTM D 5755-09 - Microvac Final Report

Job Number: 220473 SEA Report Number: 220473R02
Client: PBS Engineering + Environmental Date Received: 5/5/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 0

Client Sample No.: MV657

Lab Filter Area (mm2): 289.38

Filter Fraction: 1

Aliquet Dilution: 0.075

Grid Openings Applyzed: 10

Filter Fraction: 1 Aliquot Dilution: 0.075 Grid Openings Analyzed: 10

Residual Ash Vol: 20 ml Final Dilution: 0.075 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.106

Volume Taken: 1.5 ml Analytical Sens. (struc/cm2): 0

Analyst(s)Analysis DateMicroscopeMagnificationSB5/6/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | NA | Not Applicable | 0 |
| ASTM Asbestos >=5.0μm | NA | Not Applicable | 0 |
| ASTM Libby-Other >0.5μm | NA | Not Applicable | 0 |
| ASTM Total Asbestos >=0.5μm | NA | Not Applicable | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Client Sample No.: MV658

Sample Area/Mass/Volume (cm²): 100

Lab Filter Area (mm²): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.05 Grid Openings Analyzed: 6
Residual Ash Vol: 20 ml Final Dilution: 0.05 Average Grid Opening Area: 0.0106
Begin Volume: 20 ml Area Analyzed (mm2): 0.0636
Volume Taken: 1 ml Analytical Sens. (struc/cm2): 910

Analyst(s)Analysis DateMicroscopeMagnificationSB5/6/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total |
|--------------------------------|-----------------------------------|---|---|
| ASTM Asbestos >=0.5μm - <5.0μm | 60970 | 47249.02 - 77430.08 - Poisson | 67 |
| ASTM Asbestos >=5.0μm | 13650 | 7640.36 - 22514.31 - Poisson | 15 |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 74620 | 59349.29 - 92628.9 - Poisson | 82 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



ASTM D 5755-09 - Microvac Final Report

Job Number: 220473 SEA Report Number: 220473R02
Client: PBS Engineering + Environmental Date Received: 5/5/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S3 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV659 Lab Filter Area (mm2): 289.38

Filter Fraction: 1 Aliquot Dilution: 0.025 Grid Openings Analyzed: 11

Residual Ash Vol: 20 ml Final Dilution: 0.025 Average Grid Opening Area: 0.0106

Begin Volume: 20 ml Area Analyzed (mm2): 0.1166

Volume Taken: 0.5 ml Analytical Sens. (struc/cm2): 992.727

Analyst(s)Analysis DateMicroscopeMagnificationSB5/9/2022JEOL-Sr 120020000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count¹ Prim/Total |
|--------------------------------|-----------------------------------|---|-----------------------------------|
| ASTM Asbestos >=0.5μm - <5.0μm | 11912.727 | 6155.902 - 20809.549 - Poisson | 12 |
| ASTM Asbestos >=5.0μm | 2978.182 | 614.498 - 8703.24 - Poisson | 3 |
| ASTM Libby-Other >0.5μm | < 992.727 | 0 - 3662.171 - Poisson | 0 |
| ASTM Total Asbestos >=0.5μm | 14890.909 | 8334.938 - 24561.065 - Poisson | 15 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Shauna Bjornson

Analyst



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220473 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220473R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Project No.: 40535.488

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G4 | 1 | E52 | | | NSD | | | | | | | |
| G4 | 2 | F51 | | | NSD | | | | | | | |
| G4 | 3 | F43 | | | NSD | | | | | | | |
| G4 | 4 | F34 | | | NSD | | | | | | | |
| G4 | 5 | G33 | | | NSD | | | | | | | |
| G5 | 6 | F34 | | | NSD | | | | | | | |
| G5 | 7 | G34 | | | NSD | | | | | | | |
| G5 | 8 | F43 | | | NSD | | | | | | | |
| G5 | 9 | B43 | | | NSD | | | | | | | |
| G5 | 10 | B51 | | | NSD | | | | | | | |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220473 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220473R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

| Gr | No. | Loc. | ID | Prim | Tot (| Class | Length | Width | Aspect | Analyte | Element | | ment | Count Categories |
|-----|-----|------|-----|------|-------|-------------------------|--------|------------------|--------|------------|----------|----------------------|----------|---|
| G10 | 1 | C34 | CDQ | 1 | N | <i>M</i> atrix | 3.5 | 1.2 | 2.9 | Chrysotile | Mg, | Si | | ASTM_0.5-5.0, ASTM Total |
| | | | | | | ItemT | | ItemNu J68174 | | | Cor | nfirmed | Comment | |
| | | | | | | Brigh Diffra Spec | ection | J68174 J68174 | 4DF | | SB SB | 5/6/2022 5/6/2022 | 0.53nm R | OW SPACING |
| G10 | 1 | C34 | СМ | 2 | i | Fiber | 1.7 | 0.1 | 17 | Chrysotile | | | | ASTM_0.5-5.0, ASTM Total |
| G10 | 1 | C34 | CM | 3 | I | Fiber | 1.5 | 0.1 | 15 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 1 | C34 | CM | 4 | Ma | trix 1-0 | 3 | 2.5 | 1.2 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 1 | C34 | CM | 5 | ı | Fiber | 1 | 0.1 | 10 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 1 | C34 | CM | 6 | ı | Fiber | 1 | 0.1 | 10 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 1 | C34 | CM | 7 | ı | Fiber | 1 | 0.1 | 10 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 1 | C34 | CM | 8 | Ма | trix 1-0 | 2.5 | 1 | 2.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 1 | C34 | CM | 9 | I | Fiber | 3 | 0.1 | 30 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 1 | C34 | CM | 10 | Ma | trix 2-0 | 22.7 | 9.4 | 2.4 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G10 | 1 | C34 | CM | 11 | I | Fiber | 1.2 | 0.1 | 12 | Chrysotile | | | | ASTM_0.5-5.0, ASTM Total |
| G10 | 1 | C34 | CD | 12 | I | Fiber | 4.75 | 0.1 | 47.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 1 | C34 | CM | 13 | Ma | ıtrix 1-1 | 7.5 | 2 | 3.8 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G10 | 1 | C34 | СМ | 14 | I | Fiber | 1.5 | 0.1 | 15 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 1 | C34 | СМ | 15 | I | Fiber | 2 | 0.1 | 20 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 1 | C34 | CM | 16 | Ma | trix 1-0 | 5 | 1.5 | 3.3 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G10 | 1 | C34 | СМ | 1 | Ма | trix 2-0 | 7 | 4 | 1.8 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G10 | 1 | C34 | СМ | 2 | I | Fiber | 1 | 0.1 | 10 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 1 | C34 | СМ | 3 | Ма | trix 1-0 | 1.5 | 1 | 1.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 1 | C34 | СМ | 4 | В | undle | 2 | 0.2 | 10 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | E33 | CD | 5 | ı | Fiber | 0.55 | 0.1 | 5.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | E33 | CM | 6 | ı | Fiber | 2 | 0.15 | 13.3 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | E33 | CM | 7 | Ма | trix 1-0 | 6 | 4 | 1.5 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G10 | 2 | E33 | CM | 8 | I | Fiber | 1.25 | 0.1 | 12.5 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | E33 | CM | 9 | I | Fiber | 1.5 | 0.1 | 15 | Chrysotile | | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | E33 | СМ | 10 | i | Fiber | 1 | 0.1 | 10 | Chrysotile | | | | ASTM_Total ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | E33 | СМ | 11 | Ma | trix 1-0 | 7.5 | 5 | 1.5 | Chrysotile | | | | ASTM_>=5.0, ASTM_Total |
| G10 | 2 | E33 | СМ | 12 | В | undle | 1 | 0.5 | 2 | Chrysotile | | | | ASTM_Total ASTM 0.5-5.0, |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220473 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220473R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

| | Jilent | Sample | NO: IVIV | 658 | | | | | | | | |
|-----|--------|--------|----------|----------|------------|---------|--------|--------|------------|--------------|---------|---|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements Con | nment | Count Categories |
| G10 | 2 | E33 | CM | 13 | Matrix 4-0 | 1 | 0.5 | 2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | E33 | CMQ | 14 | Matrix 1-0 | 3.5 | 2 | 1.8 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | E33 | CM | 15 | Fiber | 8.0 | 0.1 | 8 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | E33 | CM | 16 | Fiber | 2.5 | 0.1 | 25 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | E33 | CM | 17 | Matrix 1-0 | 5 | 5 | 1 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G10 | 2 | E33 | CD | 18 | Bundle | 2 | 0.15 | 13.3 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 2 | E33 | CM | 19 | Fiber | 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | B42 | CM | 20 | Bundle | 15 | 0.15 | 100 | Chrysotile | ı | | ASTM_>=5.0, ASTM_Total |
| G10 | 3 | B42 | CM | 21 | Matrix 1-0 | 7.5 | 6 | 1.2 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G10 | 3 | B42 | CM | 22 | Fiber | 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | B42 | CM | 23 | Fiber | 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | B42 | CD | 24 | Matrix 1-0 | 5 | 2 | 2.5 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G10 | 3 | B42 | CM | 25 | Fiber | 4 | 0.15 | 26.7 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | B42 | CM | 26 | Fiber | 1.5 | 0.1 | 15 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | B42 | CM | 27 | Bundle | 3.5 | 0.5 | 7 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | B42 | CM | 28 | Fiber | 1.5 | 0.1 | 15 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G10 | 3 | B42 | CM | 29 | Bundle | 6.5 | 0.25 | 26 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G10 | 3 | B42 | CM | 30 | Bundle | 1 | 0.25 | 4 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | CD | 31 | Matrix 1-0 | 1.5 | 1 | 1.5 | Chrysotile | ! | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | Item | Туре | ItemNı | um | | Confirmed | Comment | |
| | | | | | Diffi | raction | J6817 | 5DF | | SB 5/6/2022 | | |
| G11 | 4 | F44 | CM | 32 | Bundle | 1.5 | 0.15 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | CM | 33 | Fiber | 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | СМ | 34 | Fiber | 1 | 0.15 | 6.7 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | CM | 35 | Fiber | 2.5 | 0.2 | 12.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | CM | 36 | Fiber | 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |
| G11 | 4 | F44 | CM | 37 | Matrix 1-0 | 4 | 2 | 2 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | CM | 38 | Fiber | 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |
| G11 | 4 | F44 | СМ | 39 | Fiber | 0.55 | 0.1 | 5.5 | Chrysotile | | | ASTM_10tal ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | СМ | 40 | Fiber | 0.55 | 0.1 | 5.5 | Chrysotile | | | ASTM_10tal ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | СМ | 41 | Fiber | 1 | 0.1 | 10 | Chrysotile | | | ASTM_10tal ASTM_0.5-5.0, ASTM_Total |
| | | | | | | | | | | | | ASTIVI_TOTAL |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220473 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220473R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

| | | Sample | | | | | | | | | | |
|-----|-----|--------|----|------|----------|----------|-------|--------|------------|----------|---------|-----------------------------|
| Gr | No. | Loc. | ID | Prim | Tot Clas | s Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G11 | 4 | F44 | СМ | 42 | Fibe | er 1.5 | 0.1 | 15 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | CD | 43 | Fibe | er 3.5 | 0.1 | 35 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | CM | 44 | Fibe | er 1.5 | 0.08 | 18.8 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | CM | 45 | Fibe | er 0.75 | 0.1 | 7.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |
| G11 | 4 | F44 | CM | 46 | Matrix | 1-0 4 | 2.5 | 1.6 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | CM | 47 | Fibe | er 2 | 0.1 | 20 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | CM | 48 | Fibe | er 1.5 | 0.2 | 7.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | CM | 49 | Fibe | er 3 | 0.25 | 12 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 4 | F44 | CM | 50 | Fibe | er 2 | 0.1 | 20 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 5 | G43 | CM | 51 | Fibe | er 6.5 | 0.15 | 43.3 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G11 | 5 | G43 | CM | 52 | Fibe | er 1.5 | 0.1 | 15 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 5 | G43 | СМ | 53 | Fibe | er 7 | 0.1 | 70 | Chrysotile | | | ASTM_>=5.0, ASTM Total |
| G11 | 5 | G43 | СМ | 54 | Fibe | er 0.7 | 0.1 | 7 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 5 | G43 | CM | 55 | Matrix | 1-0 7.5 | 5 | 1.5 | Chrysotile | | | ASTM_>=5.0, ASTM Total |
| G11 | 5 | G43 | CD | 56 | Fibe | er 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 5 | G43 | СМ | 57 | Fibe | er 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 5 | G43 | СМ | 58 | Fibe | er 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |
| G11 | 6 | G51 | СМ | 59 | Fibe | er 3 | 0.1 | 30 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |
| G11 | 6 | G51 | СМ | 60 | Bunc | lle 6.5 | 0.3 | 21.7 | Chrysotile | | | ASTM_>=5.0, ASTM Total |
| G11 | 6 | G51 | СМ | 61 | Fibe | er 4.5 | 0.1 | 45 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 6 | G51 | CD | 62 | Fibe | er 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |
| G11 | 6 | G51 | СМ | 63 | Fibe | er 0.85 | 0.1 | 8.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G11 | 6 | G51 | СМ | 64 | Fibe | er 3 | 0.1 | 30 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |
| G11 | 6 | G51 | СМ | 65 | Fibe | er 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |
| G11 | 6 | G51 | СМ | 66 | Fibe | er 1 | 0.15 | 6.7 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |



ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220473 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220473R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

| Gr | No. | Loc. | ID | Prim | Tot Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|------------|-----|------|-----|------|-----------|-------------|--------|--------|------------|-------------------|------------|-----------------------------|
| G7 | 1 | F51 | | | NSD | | | | | | | |
| G 7 | 2 | F44 | CDQ | 1 | Fiber | 1.1 | 0.1 | 11 | Chrysotile | Mg, Si | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | | ItemType | ItemN | um | | Confirme | d Commer | nt |
| | | | | | | Brightfield | J6817 | 6BF | | | | |
| | | | | | | Diffraction | J6817 | 6DF | | SB 5/9/2 | 022 0.53nm | ROW SPACING |
| | | | | | | Spectra | J6817 | 6SP | | SB 5/9/2 | 022 | |
| G7 | 2 | F44 | CMQ | 2 | Bundle | e 0.9 | 0.2 | 4.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 2 | F44 | СМ | 3 | Fiber | 1.6 | 0.1 | 16 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 2 | F44 | ADQ | 4 | Matrix 1 | -0 1.25 | 0.8 | 1.6 | Tremolite | Mg, Si, Ca, Fe | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | | ItemType | ItemNı | um | | Confirme | d Commer | nt |
| | | | | | _ | Brightfield | J6817 | 7BF | | | | |
| | | | | | | Diffraction | J6817 | 7DF | | SB 5/9/2 | 022 0.53nm | ROW SPACING |
| | | | | | | Spectra | J6817 | 7SP | | SB 5/9/2 | 022 | |
| G7 | 3 | F33 | AMQ | 5 | Fiber | 1.5 | 0.2 | 7.5 | Tremolite | Mg, Si, Ca, Fe | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 4 | G33 | ADQ | 6 | Fiber | 5.25 | 0.65 | 8.1 | Tremolite | Mg, Si, Ca, Fe | | ASTM_>=5.0, ASTM_Total |
| G7 | 5 | F24 | CD | 7 | Bundle | e 5.5 | 0.2 | 27.5 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G7 | 5 | F24 | СМ | 8 | Bundle | e 3 | 0.15 | 20 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 5 | F24 | СМ | 9 | Fiber | 5.5 | 0.1 | 55 | Chrysotile | | | ASTM_>=5.0, ASTM_Total |
| G7 | 5 | F24 | СМ | 10 | Fiber | 4 | 0.1 | 40 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G7 | 6 | G23 | | | NSD | | | | | | | |
| G8 | 7 | B52 | | | NSD | | | | | | | |
| G8 | 8 | C51 | CD | 11 | Fiber | 2.55 | 0.1 | 25.5 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | | ItemType | ItemNı | um | | Confirme | d Commer | nt |
| | | | | | | Diffraction | J6817 | 8DF | | | | |
| G8 | 8 | C51 | CM | 12 | Fiber | 0.8 | 0.1 | 8 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 9 | C43 | | | NSD | | | | | | | |
| G8 | 10 | A52 | СМ | 13 | Fiber | 2.5 | 0.1 | 25 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 11 | A44 | СМ | 14 | Fiber | 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM_Total |
| G8 | 11 | A44 | CM | 15 | Fiber | 1 | 0.1 | 10 | Chrysotile | | | ASTM_0.5-5.0, ASTM Total |



ASTM D 5755-09 - Microvac Raw Data -**Final Report**

Ref. D5755-09 Job Number: 220473 SEA

Client: PBS Engineering + Environmental Report Number: 220473R02 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Count Categories

ASTM_>=5.0 ASTM Asbestos $>=5.0 \mu m$ $ASTM_0.5\text{--}5.0 \quad ASTM \ Asbestos >= 0.5 \mu m \ \text{--} < 5.0 \mu m$ ASTM_Total ASTM Total Asbestos $>=0.5\mu m$

ASTMD_Other ASTM Libby-Other >0.5μm

Reviewed by:

Analyst

PBS

LABORATORY CHAIN OF CUSTODY

| Project: | Pierce College Olym | pic South Abatement and Repairs | Project #: 40535.488 | Page 1 of 1 |
|---|-------------------------------------|---|--|-------------|
| Analysis re | equested: <u>ASTM n</u> | nicrovac dust sample | Date: <u>5/5/2022</u> | · |
| Reling'd by | y/Signature: <u>Peter St</u> | ensland / Peter State | Date/Time: 5/5/2022 | |
| Received b | y/Signature: <u><i>D.W.R</i></u> | Meder - | Date/Time: 5/6/22 | 08·00 |
| | | Email ALL INVOICES to: seattleap@p | | |
| E-mail resul Brian Sta Willem I Gregg M Mark Hi Tim Ogo | anford Mager ⁄liddaugh ley | Prudy Stoudt-McRae Janet Murphy Kaitlin Soukup Claire Tsai Holly Tuttle | Mike Smith Ferman Fletcher Ryan Hunter Toan Nguyen Peter Stensland | |
| TURN AROU 1 Hour 2 Hours 4 Hours | | 24 Hours 48 Hours | ☐ 3 Days ☑ RUSH | |
| ************************************** | | SAMPLE DATA FORM | | |
| Sample # | Material | Locatio | ЭП | Lab |
| MV657 | | Field Blank | | Labcor |
| MV658 | Dust - 100cm2 area | Olympic S Beneath the pan decking in s | kybridge cavity to CAS | |
| MV659 | Dust - 100cm2 area | Olympic S Long soffit adjacent to stairw | ell underneath skybridge to CAS | |
| | · | | ************************************** | |
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| **** | | Reviewed by: | | |
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| | | | USPS Email | |
| ······································ | | Sample Gondi Poor Fair | tion / Temp: | |
| | | | | 1 |



ASTM D 5755-09 - Microvac Report

Job Number: 220482 Report Number: 220482R01 Client: PBS Engineering + Environmental Report Date: 5/10/2022

Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Num. Client Sample Number Analysis Analysis Notes Date Date Sampled: Received:

220482 - S1 MV660 ASTM D 5755-09 - Microvac Many Mg, Al, Si fibers present. 5/9/2022 5/9/2022

ASTM D 5755-09 - Preparation and analysis of the above samples was conducted in accordance with the ASTM # D-5755-09 for the identification Microvac of asbestos in dust. Briefly, the samples were sampled by using a microvac technique onto 0.45 µm pore size mixed cellulose ester (MCE) filters. Sample cassettes were rinsed in distilled, particle-free water, sonicated lightly to homogenize and removed particulates. Aliquots were taken and filtered onto 0.22 µm pore size mixed cellulose ester filters, then air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Kate March Quality Control Officer



ASTM D 5755-09 - Microvac Final Report

Report Number: 220482R01 Job Number: 220482 SEA Date Received: 5/9/2022 Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No.: S1 Sample Area/Mass/Volume (cm²): 100

Client Sample No.: MV660 Lab Filter Area (mm2): 289.38

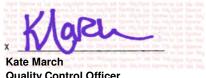
Filter Fraction: 1 Aliquot Dilution: 0.05 **Grid Openings Analyzed**: 6 Final Dilution: 0.05 Residual Ash Vol: 20 ml Average Grid Opening Area: 0.0106 Begin Volume: 20 ml Area Analyzed (mm2): 0.0636

Volume Taken: 1 ml Analytical Sens. (struc/cm2): 910

Analyst(s) **Analysis Date** Microscope Magnification KM 5/10/2022 JEOL-Sr 1200 20000

| Structure Type | Concen- tration (struc/cm2) | 95% Confidence Interval (struc/cm2) | Structure Count ¹ Prim/Total | |
|--------------------------------|-----------------------------------|---|---|--|
| ASTM Asbestos >=0.5μm - <5.0μm | 910 | 22.75 - 5070.52 - Poisson | 1 | |
| ASTM Asbestos >=5.0μm | < 910 | 0 - 3356.99 - Poisson | 0 | |
| ASTM Libby-Other >0.5μm | < 910 | 0 - 3356.99 - Poisson | 0 | |
| ASTM Total Asbestos >=0.5μm | 910 | 22.75 - 5070.52 - Poisson | 1 | |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.





ASTM D 5755-09 - Microvac Raw Data - Final Report

Job Number: 220482 SEA Ref. D5755-09

Client: PBS Engineering + Environmental Report Number: 220482R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/9/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: MV660

| Gr | No. | Loc. | ID | Prim Tot | Class | s Length | Width | Aspect | Analyte | Elements C | omment | Count Categories |
|-------|---------|------|-----------|------------|-------|--------------|--------|------------|----------------|---------------------------|------------|-----------------------------|
| G5 | 1 | E44 | | | NSD | | | | | | | |
| G5 | 2 | F51 | | | NSD | | | | | | | |
| G5 | 3 | G54 | | | NSD | | | | | | | |
| G5 | 4 | H53 | ADQ | 1 | Fiber | 1.65 | 0.322 | 5.1 | Actinolite | Mg, Al, Si, Ca, Mn, Fe | | ASTM_0.5-5.0, ASTM_Total |
| | | | | | ļ | ItemType | ItemNu | m | | Confirmed | Comme | nt |
| | | | | | - | Spectra | J68194 | SP | | KM 5/10/20 | 022 | |
| | | | | | | Diffraction | J68194 | DF | | KM 5/10/20 | 0.53nm | ROW SPACING |
| | | | | | | Brightfield | J68194 | BF | | | | |
| G6 | 5 | C33 | | | NSD | | | | | | | |
| G6 | 6 | C42 | | | NSD | | | | | | | |
| Count | Catego | ries | | | | | | | | | | |
| ASTM | _>=5.0 | ASTM | Asbestos | s >=5.0μm | P | ASTM_0.5-5.0 | ASTM A | sbestos >= | 0.5μm - <5.0μr | n ASTM_Tota | al ASTM To | otal Asbestos >=0.5μm |
| ASTM | D_Other | ASTM | Libby-Oth | ner >0.5µm | | | | | | | | |
| | | | | | | | | | | | | |

Reviewed by:

Kate March

Quality Control Officer



LABORATORY CHAIN OF CUSTODY



| Analysis req Relinq'd by Received b E-mail resul Brian St Willem Gregg M Mark Hi Tim Oge | /Signature: Peter Stery/Signature: Peter Ster | Email ALL INVOICES to: seattleap Prudy Stoudt-McRae Janet Murphy Kaitlin Soukup Claire Tsai Holly Tuttle | Date: 5/9/2022 Date/Time: 5/9/2022 Date/Time: 5/9/2022 | h | | | | | |
|---|--|---|--|-------|--|--|--|--|--|
| 1 Hour 2 Hours 4 Hours | | 24 Hours 48 Hours | ☐ 3 Days ☐ RUSH | | | | | | |
| | | SAMPLE DATA FORM | 1 | | | | | | |
| Sample # | Material | Location | | | | | | | |
| | | Skybridge to CAS Red I beam under | | Labco | | | | | |
| | | Fax Invoice | Released: | | | | | | |

APPENDIX B

Reports

Pierce College Playground Soil Memorandum (April 2022) Cascade 432 Air Monitoring Letter Report (June 2022)



MEMORANDUM

DATE: April 28, 2022

TO: Gus Lim

Pierce College

FROM: Gregg Middaugh

PROJECT NO: 40535.488

Pierce College Playground Soils Discussion

RE:

Through the process of discovery and testing of asbestos dust in Olympic South the abatement team identified pieces of equipment (i.e., toys, furniture and educational equipment) that had potentially been removed from inside the ECE lab area to the vehicle drive-through and adjacent storage sheds, prior to the start of the ECE renovation work. As part of the investigation, surface dust samples were collected from equipment located outside the building and in storage sheds. Laboratory analysis revealed the presence of elevated asbestos fibers in the surface dust on the equipment and in the sheds and their associated contents.

Out of concern that these pieces of equipment may have migrated between the building and the storage sheds over time, and potentially between play structures the remaining play structures were also tested for asbestos. Laboratory analysis showed elevated asbestos fibers present in the surface dust of the open-air play structures.

With evidence that asbestos dust was present in the play structures the abatement team was directed to gather more data to determine if asbestos was present in the soils and pathways in the playground area. Twelve soil samples were collected and analyzed from the playground area. Asbestos content in the soil from 0 to 12 inches depth ranged from 0.00351% to 0.690%.

The abatement team was directed to remove the impacted storage sheds and play structures along with the aged and compromised wood play structures. All materials were disposed as asbestos containing waste. Most playground structure footings were removed with minimal disturbance to ground surface soils. In instances where footings would have created soil disturbance and therefore potential asbestos release the footings remained in place, marked with safety paint for identification. The abatement team has been directed to cease further operations in the play area until further notice.

PBS conducted ambient air testing in the area during the equipment/ playground demolition activities. Airborne levels of asbestos were found between <.004 and .004 fibers per cubic centimeter (f/cc). The Washington Administrative Code (WAC) Chapter 296-62-077 clearance criteria is 0.1 f/cc. The clearance criteria was not exceeded.

The personnel exposure limit (PEL) for asbestos is based on an 8-hour time-weighted average (TWA) in accordance with WAC Chapter 296-841 and 296-62-077. When the PEL is exceeded, it initiates certain required activities such as housekeeping, routine exposure monitoring, personal protective equipment (PPE), and medical surveillance. The WAC PEL for asbestos is 0.1 f/cc. The abatement contractor performed an initial exposure

Pierce College Playground Soils Discussion April 28, 2022 Page 2 of 2

assessment to determine if the PEL was exceeded during this activity. Results of that personnel air monitoring revealed less than 0.003 f/cc. The PEL was not exceeded.

WAC 296-62-07 identifies a regulated "asbestos-containing material" as "containing more than 1% asbestos" content by weight. The referenced code also contains rules regarding materials that contain less than 1% asbestos. These include the following:

- 1. These materials are not regulated by EPA or local Clean Air Agencies. It is not considered a Class I, II, III or IV work. Requirements for handling <1% asbestos are found in WAC 296-62-07712 (2,4 and 5), WAC 296-62-07722(5) and WAC 296-62-07728.
- 2. A Competent person must conduct a negative exposure assessment and periodic monitoring.
- 3. When working with these materials' wet methods, HEPA vacuums and prompt cleanup must be performed.
- 4. 2-hr Awareness training is required for all workers disturbing this material.
- 5. Items/activities that are not required for materials that contain less than 1% asbestos include; labeled disposal bags, asbestos worker certification, supervisor or contractor certifications, pre-demolition removal of the materials, and pre-removal notifications to regulatory agencies.

While the asbestos found in the soil is less than regulatory clean up levels there are a number of concerns with leaving it in place:

- Re-establishing the area as a playground without remedial action will leave potential asbestos exposure hazards in place.
- Disturbing the playground soils has the potential to create asbestos exposures to staff and children playing in that area.
- If no soil remediation is performed the college is obligated to manage protocols to ensure the soil and hardscape are not disturbed unless the above WAC regulations are followed.

Please provide direction on how you would like to address the playground soils.



June 7, 2022

Gus Lim
Director of Facilities and Operations
Pierce College
9401 Farwest Dr SW,
Lakewood, WA 98498

Regarding: Pierce College Olympic South Abatement & Repairs

Cascade 432 Air Monitoring Letter Report

9401 Farwest Dr SW, Lakewood, WA 98498 Project 40535.488

Dear Gus Lim,

The purpose of this letter is to provide a summary of the work performed in Pierce College Cascade Room 432 in Lakewood at the above-mentioned address. The following will provide a description of background information, field activities, conclusions and recommendations.

Background Information

In March and April 2021, PBS Engineering and Environmental Inc. (PBS) discovered asbestos contamination present in the surface dust of Olympic South. During the clean up of Olympic South, the college notified PBS that theater items previously stored in Olympic South had been moved to Cascade 432. Out of an abundace of caution PBS collected representative dust samples of Cascade Room 432 and it's contents to determine the existence of asbestos contamination. Minor contamination was found on the contents, in the room, and in the supply and return duct work associated with the room.

Field Activities

In September 2021, the Dickson Company, a professional abatement firm, disposed of all contents and cleaned surfaces in the room. PBS industrial hygienists performed visual inspections and clearance testing associated with this cleanup effort in accordance with the Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763.

Laboratory analysis revealed that all clearance air samples meet the criteria established by AHERA.

Once the work was complete the college requested PBS do follow up air sampling to ensure the room was safe to occupy while the HVAC system was running. On February 15, 2022 and May 5, 2022, PBS performed ambient air sampling in Cascade 432 with the HVAC system running. The samples were collected and analyzed in accordance with the National Institute for Occupational Safety and Health (NIOSH) Method 7402.

Airborne levels of asbestos were found to be <0.0002 fibers per cubic centimeter (f/cc) on the days of testing. The Washington Administrative Code (WAC) Chapter 296-62-077 clearance criteria is 0.1 f/cc. The clearance criteria was not exceeded.

Conclusions

Laboratory analysis found that no asbestos structures were present in the ambient air of Cascade 432 during testing even though some asbestos is present in the HVAC ducting. Based on this data, it is PBS' opinion that exposures to

RE: Pierce College Olympic South Abatement & Repairs Cascade 432 Air Monitoring Letter Report Page 2 of 2

airborne asbestos in Cascade 432 are well below regulatory thresholds and in fact were non-existent at the time of testing.

Recommendations

Based on our observations of abatement related activities, visual inspections, and air testing, it is PBS' opinion that the scope of work included in the abatement and cleaning in Cascade Room 432 is complete. The room is considered safe for authorized users to enter.

Given the fact that asbestos structures are present in the ducting, PBS recommends the duct be labeled and that periodic ambient air monitoring be conducted quarterly.

Please feel free to reach out with any questions or comments.

Sincerely,

Claire Tsai Industrial Hygienist

Reviewed by: Gregg Middaugh

Attachments: NIOSH 7402 Chain of Custody NIOSH 7402 Lab Results



PBS Engineering and Environmental Inc. 214 E GALER STREET, SUCTE 500 SEATTLE, WA 98102 106, 233 939

LABORATORY DATA SHEET

| Project Name: Abatement ar | | je Olym | pic South | I.H. Peter Stensland | METHOD | | WEATHE Cloudy: I | | | Comments: Conditions: TAT 3 day Please email results to Gregg.Middaugh@pbsusa.com and | | | | | |
|--|-------------|-----------|------------|--|----------|------|-------------------------------------|-------|--------|--|--------|----------|------------|-----------|--|
| Project No.: 40 | | | | SAMPLE MEDIA/ANALYTICAL NIOSH 7400 - Mike Smith | METHOD: | | | | | and the second second second | | susa.com | | | |
| Location: Casc | ade Room 43 | 2 | | NIOSH METHOD 7402 - Labco | r inc. | | | | | | | | | | |
| Contractor: N/ | /A | | | | | | | | | | | | | | |
| Client: DES | | | | | Language | DV. | | | DATE/T | IME: 2/1 | 5/22 | TWA: | | | |
| RELINQUISH | |): / | 2/15/22 | | ANALYZED | BY: | Michal An | mt | | | | | | | |
| RECEIVED BY | | | DATE/TIME: | District Constitution of the constitution of t | ANALYZED | BY: | | | DATE/T | IME: | | | | | |
| CODES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA | | | | CLEARANCE PRE PRE-AB | | | ATEMENT GBA SION H NCE SAMPLE | | | GLOVE B HEPA | AG ARI | EA | | | |
| DATE | SAMPLE | MPLE CODE | | LOCATION | BLANK | TIME | TIME | TOTAL | PRE | FLOW | AVG | TOTAL | FIB FLD | FIB CC | |
| DATE | NUMBER | | | ACTIVITY / PERSON | 0/100 | 635 | 1235 | 360 | 10 | 10 | 10 | 3600 | 6/100 | <0.001 | |
| 2/15/2022 | IA-001 | Α | HV-135 | CAS 432 east side of the room | | 635 | 1235 | 360 | 10 | 10 | 10 | 3600 | 6.5/100 | <0.001 | |
| 2/15/2022 | IA-002 | Α | 211607 | CAS 432 west side of the room | 0/100 | | 1233 | | - | 100 | 700 | | 0/100 | | |
| 2/15/2022 | IA-003 | Α | NA | Field Blank | 0/100 | - 1 | - | - | | | | | 0,200 | | |
| 2/15/2022 | IA-004 | А | NA | Field Blank | 0/100 | - | 1. | -5-5 | 4 | 1.0 | 2. | 7.2 | 0/100 | | |
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NIOSH 7402 - TEM - Direct Final Report

Job Number: 220145 Report Number: 220145R01 Report Date: 2/18/2022

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Sampled: | Date Received: |
|--------------|----------------------|---------------------------|----------------|------------------|-------------------|
| 220145 - S1 | IA-001 | NIOSH 7402 - TEM - Direct | | 2/15/2022 | 2/15/2022 |
| 220145 - S2 | IA-002 | NIOSH 7402 - TEM - Direct | | 2/15/2022 | 2/15/2022 |
| 220145 - S3 | IA-003 | NIOSH 7402 - TEM - Direct | | 2/15/2022 | 2/15/2022 |
| 220145 - S4 | IA-004 | NIOSH 7402 - TEM - Direct | | 2/15/2022 | 2/15/2022 |

NIOSH 7402 - Preparation and analysis of the above samples was conducted in accordance with the NIOSH method 7402 for the identification TEM - Direct of asbestos. The samples were collapsed with dimethylformamide (DMF) / acetic acid, carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification of 900x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Analyst



NIOSH 7402 - TEM - Direct Rapid Summary - Final Report

Job Number: 220145 SEA Report Number: 220145R01
Client: PBS Engineering + Environmental Date Received: 2/15/2022

Project Name: Pierce College Olympic South Abatement and Repairs

| Lab/Cor Sample No. | Client Sample No. | Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count¹ Prim/Total | Analytical Sens. (fiber/cc) : |
|-----------------------|-------------------|-------------------|-----------------------------------|--|-------------------------------|-------------------------------------|
| S1 | IA-001 | NIOSH ASBESTOS | < 0.0002 | 0 - 0.0008 - Poisson | 0 | 0.00022 |
| S2 | IA-002 | NIOSH ASBESTOS | < 0.0002 | 0 - 0.0008 - Poisson | 0 | 0.00022 |
| S3 | IA-003 | NIOSH ASBESTOS | Not Applicable | Not Applicable | 0 | NA |
| S4 | IA-004 | NIOSH ASBESTOS | Not Applicable | Not Applicable | 0 | NA |

Reviewed by:

Shauna Biornson

Analyst

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



NIOSH 7402 - TEM - Direct Summary Data - Final Report

Job Number: 220145 SEA

Client: PBS Engineering + Environmental Report Number: 220145R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/15/2022

Lab/Cor Sample No.: S1 Volume (L): 3600

Client Sample No.: IA-001 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date SB 2/18/2022 Microscope JEOL-Sr 1200 Magnification JEOL-Sr 1200 Area Analyzed (mm2): 0.48

Analytical Sens. (fiber/cc): 0.00022

| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count ¹ Prim/Total |
|-----------------------------|-----------------------------------|--|---|
| NIOSH ASBESTOS | < 0.0002 | 0 - 0.0008 - Poisson | 0 |
| NIOSH NonASBESTOS | 0.0016 | 0.0006 - 0.0032 - Poisson | 7 |
| NIOSH Libby-Other Amphibole | < 0.0002 | 0 - 0.0008 - Poisson | 0 |
| NIOSH Total Fibers | 0.0016 | 0.0006 - 0.0032 - Poisson | 7 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Volume (L): 3600

2/18/2022 JEOL-Sr 1200 1200 Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.48

Analytical Sens. (fiber/cc): 0.00022

| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count ¹ Prim/Total |
|-----------------------------|-----------------------------------|--|---|
| NIOSH ASBESTOS | < 0.0002 | 0 - 0.0008 - Poisson | 0 |
| NIOSH NonASBESTOS | 0.0007 | 0.0001 - 0.002 - Poisson | 3 |
| NIOSH Libby-Other Amphibole | < 0.0002 | 0 - 0.0008 - Poisson | 0 |
| NIOSH Total Fibers | 0.0007 | 0.0001 - 0.002 - Poisson | 3 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



NIOSH 7402 - TEM - Direct Summary Data - Final Report

Job Number: 220145 SEA

Client: PBS Engineering + Environmental Report Number: 220145R01

Lab/Cor Sample No.: S3 Volume (L): 0

Client Sample No.: IA-003 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification SB 2/18/2022 JEOL-Sr 1200 Magnification 1200 Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.48
Analytical Sens. (fiber/cc): NA

| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count ¹ Prim/Total |
|-----------------------------|-----------------------------------|--|---|
| NIOSH ASBESTOS | Not Applicable | Not Applicable | 0 |
| NIOSH NonASBESTOS | Not Applicable | Not Applicable | 1 |
| NIOSH Libby-Other Amphibole | Not Applicable | Not Applicable | 0 |
| NIOSH Total Fibers | Not Applicable | Not Applicable | 1 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4

Client Sample No.: IA-004

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 40

Analyst(s) Analysis Date SB 2/18/2022 JEOL-Sr 1200 Magnification JEOL-Sr 1200 Area Analyzed (mm2): 0.48

Analytical Sens. (fiber/cc): NA

| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count¹ Prim/Total |
|-----------------------------|-----------------------------------|--|-------------------------------|
| NIOSH ASBESTOS | Not Applicable | Not Applicable | 0 |
| NIOSH NonASBESTOS | Not Applicable | Not Applicable | 0 |
| NIOSH Libby-Other Amphibole | Not Applicable | Not Applicable | 0 |
| NIOSH Total Fibers | Not Applicable | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header

Reviewed by:

Shauna Bjornson Analyst

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220145 SEA NIOSH 7402

Client: PBS Engineering + Environmental Report Number: 220145R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/15/2022

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: IA-001

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-----|----------|-------|----------|-------|----------|------------------------------|-----------|---------------------|---------------------------|
| G1 | 1 | C24 | | | NSD | <u> </u> | | <u> </u> | <u> </u> | | | |
| G1 | 2 | E23 | | | NSD | | | | | | | |
| G1 | 3 | E24 | NAS | 1 | Fiber | 18 | 2.5 | 7.2 | Non Asbestos Structure | Al, Si, P | | NIOSH_NAM, NIOSH_Total |
| G1 | 3 | E24 | NAS | 2 | Fiber | 5.5 | 1.5 | 3.7 | Non Asbestos Structure | None | Possible Organic | NIOSH_NAM, NIOSH_Total |
| G1 | 4 | F23 | | | NSD | | | | | | | |
| G1 | 5 | F24 | NAS | 3 | Fiber | 5.5 | 0.8 | 6.9 | Non Asbestos Structure | | | NIOSH_NAM, NIOSH_Total |
| G1 | 6 | G23 | | | NSD | | | | | | | |
| G1 | 7 | G24 | | | NSD | | | | | | | |
| G1 | 8 | H23 | | | NSD | | | | | | | |
| G1 | 9 | H24 | | | NSD | | | | | | | |
| G1 | 10 | K34 | | | NSD | | | | | | | |
| G1 | 11 | H34 | | | NSD | | | | | | | |
| G1 | 12 | H33 | | | NSD | | | | | | | |
| G1 | 13 | G34 | | | NSD | | | | | | | |
| G1 | 14 | G33 | | | NSD | | | | | | | |
| G1 | 15 | C34 | NAS | 4 | Fiber | 12.5 | 4 | 3.1 | Non Asbestos Structure | None | Possible Organic | NIOSH_NAM, NIOSH_Total |
| G1 | 16 | C33 | NAS | 5 | Fiber | 11 | 0.8 | 13.8 | Non Asbestos Structure | | | NIOSH_NAM, NIOSH_Total |
| G1 | 17 | B52 | | | NSD | | | | | | | |
| G1 | 18 | C53 | | | NSD | | | | | | | |
| G1 | 19 | E53 | | | NSD | | | | | | | |
| G1 | 20 | E54 | | | NSD | | | | | | | |
| G2 | 21 | E22 | | | NSD | | | | | | | |
| G2 | 22 | G21 | | | NSD | | | | | | | |
| G2 | 23 | G22 | | | NSD | | | | | | | |
| G2 | 24 | H23 | | | NSD | | | | | | | |
| G2 | 25 | G23 | NAS | 6 | Fiber | 5.2 | 0.5 | 10.4 | Non Asbestos Structure | None | Possible Organic | NIOSH_NAM, NIOSH_Total |
| G2 | 26 | F24 | | | NSD | | | | | | | |
| G2 | 27 | F23 | | | NSD | | | | | | | |
| G2 | 28 | E24 | NAS | 7 | Fiber | 7 | 1.5 | 4.7 | Non Asbestos Structure | | | NIOSH_NAM, NIOSH_Total |
| G2 | 29 | E23 | | | NSD | | | | | | | |
| G2 | 30 | E32 | | | NSD | | | | | | | |
| G2 | 31 | F31 | | | NSD | | | | | | | |



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220145 SEA NIOSH 7402

Client: PBS Engineering + Environmental Report Number: 220145R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/15/2022

Lab/Cor Sample No: S1
Client Sample No: IA-001

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G2 | 32 | F32 | | | NSD | | | | | | | |
| G2 | 33 | G31 | | | NSD | | | | | | | |
| G2 | 34 | G32 | | | NSD | | | | | | | |
| G2 | 35 | G42 | | | NSD | | | | | | | |
| G2 | 36 | G41 | | | NSD | | | | | | | |
| G2 | 37 | F42 | | | NSD | | | | | | | |
| G2 | 38 | G44 | | | NSD | | | | | | | |
| G2 | 39 | H43 | | | NSD | | | | | | | |
| G2 | 40 | H44 | | | NSD | | | | | | | |



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220145 SEA NIOSH 7402

Client: PBS Engineering + Environmental Report Number: 220145R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/15/2022

Lab/Cor Sample No: S2 Client Sample No: IA-002

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-----|----------|-------|--------|-------|--------|------------------------------|----------|---------------------|---------------------------|
| G1 | 1 | C32 | | | NSD | | | | | | | |
| G1 | 2 | E31 | | | NSD | | | | | | | |
| G1 | 3 | E32 | | | NSD | | | | | | | |
| G1 | 4 | F32 | | | NSD | | | | | | | |
| G1 | 5 | G31 | | | NSD | | | | | | | |
| G1 | 6 | G32 | | | NSD | | | | | | | |
| G1 | 7 | H31 | | | NSD | | | | | | | |
| G1 | 8 | H32 | | | NSD | | | | | | | |
| G1 | 9 | H41 | | | NSD | | | | | | | |
| G1 | 10 | G42 | | | NSD | | | | | | | |
| G1 | 11 | G41 | | | NSD | | | | | | | |
| G1 | 12 | H34 | | | NSD | | | | | | | |
| G1 | 13 | H44 | | | NSD | | | | | | | |
| G1 | 14 | H42 | | | NSD | | | | | | | |
| G1 | 15 | G44 | | | NSD | | | | | | | |
| G1 | 16 | G43 | | | NSD | | | | | | | |
| G1 | 17 | F44 | | | NSD | | | | | | | |
| G1 | 18 | F43 | | | NSD | | | | | | | |
| G1 | 19 | E44 | | | NSD | | | | | | | |
| G1 | 20 | E43 | | | NSD | | | | | | | |
| G1 | 21 | C44 | NAS | 1 | Fiber | 9 | 1 | 9 | Non Asbestos Structure | None | Possible Organic | NIOSH_NAM, NIOSH_Total |
| G1 | 22 | C43 | | | NSD | | | | | | | |
| G1 | 23 | B44 | | | NSD | | | | | | | |
| G1 | 24 | B43 | | | NSD | | | | | | | |
| G1 | 25 | B52 | | | NSD | | | | | | | |
| G1 | 26 | C51 | | | NSD | | | | | | | |
| G1 | 27 | C52 | | | NSD | | | | | | | |
| G1 | 28 | E51 | NAS | 2 | Fiber | 6 | 0.8 | 7.5 | Non Asbestos Structure | None | Possible Organic | NIOSH_NAM, NIOSH_Total |
| G1 | 29 | E52 | | | NSD | | | | | | | |
| G1 | 30 | F51 | | | NSD | | | | | | | |
| G2 | 31 | F44 | | | NSD | | | | | | | |
| G2 | 32 | G43 | | | NSD | | | | | | | |
| G2 | 33 | G44 | | | NSD | | | | | | | |
| G2 | 34 | H43 | | | NSD | | | | | | | |
| G2 | 35 | H44 | | | NSD | | | | | | | |
| G2 | 36 | H52 | NAS | 3 | Fiber | 8.5 | 1 | 8.5 | Non Asbestos Structure | None | Possible Organic | NIOSH_NAM, NIOSH_Total |
| G2 | 37 | H51 | | | NSD | | | | | | | |
| G2 | 38 | G52 | | | NSD | | | | | | | |



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220145 SEA NIOSH 7402

Client: PBS Engineering + Environmental Report Number: 220145R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/15/2022

Lab/Cor Sample No: S2 Client Sample No: IA-002

| Gr | No. | Loc. | ID Prim Tot Class | Length | Width Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------------|--------|--------------|---------|----------|---------|------------------|
| G2 | 39 | G51 | NSD | | | | | | |
| G2 | 40 | F52 | NSD | | | | | | |



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220145 SEA NIOSH 7402

Client: PBS Engineering + Environmental Report Number: 220145R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/15/2022

Lab/Cor Sample No: S3 Client Sample No: IA-003

| | Cilent . | Sample I | 10. IA-0 | JU3 | | | | | | | | | |
|------------|----------|----------|----------|------|-----|-------|--------|-------|--------|-----------------------|----------|------------------------------|------------------|
| Gr | No. | Loc. | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G1 | 1 | C34 | | | | NSD | | | | | | | |
| G1 | 2 | E33 | | | | NSD | | | | | | | |
| G1 | 3 | E34 | | | | NSD | | | | | | | |
| G1 | 4 | F33 | | | | NSD | | | | | | | |
| G1 | 5 | F34 | | | | NSD | | | | | | | |
| G1 | 6 | G33 | | | | NSD | | | | | | | |
| G1 | 7 | G34 | | | | NSD | | | | | | | |
| G1 | 8 | H34 | | | | NSD | | | | | | | |
| G1 | 9 | K33 | | | | NSD | | | | | | | |
| G1 | 10 | K34 | | | | NSD | | | | | | | |
| G1 | 11 | K44 | | | | NSD | | | | | | | |
| G1 | 12 | K43 | | | | NSD | | | | | | | |
| G1 | 13 | H44 | | | | NSD | | | | | | | |
| G1 | 14 | H43 | | | | NSD | | | | | | | |
| G1 | 15 | G44 | | | | NSD | | | | | | | |
| G1 | 16 | G43 | | | | NSD | | | | | | | |
| G1 | 17 | F44 | | | | NSD | | | | | | | |
| G1 | 18 | F43 | | | | NSD | | | | | | | |
| G1 | 19 | E44 | | | | NSD | | | | | | | |
| G1 | 20 | E43 | | | | NSD | | | | | | | |
| G1 | 21 | C44 | | | | NSD | | | | | | | |
| G1 | 22 | C43 | | | | NSD | | | | | | | |
| G1 | 23 | B44 | | | | NSD | | | | | | | |
| G1 | 24 | B43 | | | | NSD | | | | | | | |
| G1 | 25 | C52 | | | | NSD | | | | | | | |
| G2 | 26 | C24 | | | | NSD | | | | | | | |
| G2 | 27 | E23 | | | | NSD | | | | | | | |
| G2 | 28 | E24 | | | | NSD | | | | | | | |
| G2 | 29 | F23 | | | | NSD | | | | | | | |
| G2 | 30 | F24 | | | | NSD | | | | | | | |
| G2 | 31 | G23 | NAS | 1 | | Fiber | 12 | 1.5 | 8 | Non | None | Possible | NIOSH_NAM, |
| ~ <i>L</i> | | G20 | | | | 501 | | | | Asbestos Structure | 3 | Organic, 2X Grid Bar Rule | NIOSH_Total |
| G2 | 32 | G24 | | | | NSD | | | | | | | |
| G2 | 33 | H31 | | | | NSD | | | | | | | |
| G2 | 34 | G32 | | | | NSD | | | | | | | |
| G2 | 35 | G31 | | | | NSD | | | | | | | |
| G2 | 36 | F32 | | | | NSD | | | | | | | |
| G2 | 37 | C32 | | | | NSD | | | | | | | |
| G2 | 38 | E33 | | | | NSD | | | | | | | |
| G2 | 39 | E34 | | | | NSD | | | | | | | |
| G2 | 40 | F33 | | | | NSD | | | | | | | |



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220145 SEA NIOSH 7402

Client: PBS Engineering + Environmental Report Number: 220145R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/15/2022

Lab/Cor Sample No: S4 Client Sample No: IA-004

| (| Client | Sample N | 10: IA- | 004 | | | | | | | | |
|----|--------|----------|---------|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G1 | 1 | C43 | | | NSD | | | | | | | |
| G1 | 2 | C44 | | | NSD | | | | | | | |
| G1 | 3 | F44 | | | NSD | | | | | | | |
| G1 | 4 | G44 | | | NSD | | | | | | | |
| G1 | 5 | H43 | | | NSD | | | | | | | |
| G1 | 6 | H44 | | | NSD | | | | | | | |
| G1 | 7 | K43 | | | NSD | | | | | | | |
| G1 | 8 | K52 | | | NSD | | | | | | | |
| G1 | 9 | H52 | | | NSD | | | | | | | |
| G1 | 10 | H51 | | | NSD | | | | | | | |
| G1 | 11 | G52 | | | NSD | | | | | | | |
| G1 | 12 | G51 | | | NSD | | | | | | | |
| G1 | 13 | F52 | | | NSD | | | | | | | |
| G1 | 14 | C52 | | | NSD | | | | | | | |
| G1 | 15 | C51 | | | NSD | | | | | | | |
| G1 | 16 | E61 | | | NSD | | | | | | | |
| G1 | 17 | E62 | | | NSD | | | | | | | |
| G1 | 18 | F61 | | | NSD | | | | | | | |
| G1 | 19 | F62 | | | NSD | | | | | | | |
| G1 | 20 | G61 | | | NSD | | | | | | | |
| G2 | 21 | G52 | | | NSD | | | | | | | |
| G2 | 22 | H51 | | | NSD | | | | | | | |
| G2 | 23 | H52 | | | NSD | | | | | | | |
| G2 | 24 | K53 | | | NSD | | | | | | | |
| G2 | 25 | H54 | | | NSD | | | | | | | |
| G2 | 26 | H53 | | | NSD | | | | | | | |
| G2 | 27 | G54 | | | NSD | | | | | | | |
| G2 | 28 | E53 | | | NSD | | | | | | | |
| G2 | 29 | C53 | | | NSD | | | | | | | |
| G2 | 30 | B54 | | | NSD | | | | | | | |
| G2 | 31 | C61 | | | NSD | | | | | | | |
| G2 | 32 | C62 | | | NSD | | | | | | | |
| G2 | 33 | B42 | | | NSD | | | | | | | |
| G2 | 34 | E64 | | | NSD | | | | | | | |
| G2 | 35 | C44 | | | NSD | | | | | | | |
| G2 | 36 | E43 | | | NSD | | | | | | | |
| G2 | 37 | E44 | | | NSD | | | | | | | |
| G2 | 38 | F44 | | | NSD | | | | | | | |
| G2 | 39 | G43 | | | NSD | | | | | | | |
| G2 | 40 | H44 | | | NSD | | | | | | | |



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220145 SEA NIOSH 7402

Client: PBS Engineering + Environmental Report Number: 220145R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 2/15/2022

Count Categories

NIOSH_ASB NIOSH ASBESTOS NIOSH_NAM NIOSH NonASBESTOS NIOSH_Other NIOSH Libby-Other Amphibole

NIOSH_Total NIOSH Total Fibers

Reviewed by:

to Lot Une Only Opport Signature for Lot Line Con Depth of Control of Control Con Control of Contro

Shauna Bjornson

Analyst



PBS Engineering and Environmental Inc. 214 E GALER STREET, SUITE 300 SEATILE, WA 98102 206.233,939

pbsusa.com

LABORATORY DATA SHEET

| Project Nam Abatement | e: Pierce Colle and Repairs | ege Olyr | npic South | I.H. Peter Stensland | | | ì | ER/TEMP Mid 40's | | Comments: Conditions: TAT 24 hour Please email resul | | | | l results to | |
|--|--------------------------------|----------|------------|-------------------------------|--|---------------------|----------|---------------------------------------|--------------|---|--------------|--------------------------|-----------|--------------|--|
| Project No.: 4 | 40535.488 | | | SAMPLE MEDIA/ANALYTICAL | 1.7 | |] [| | | Gregg. | Middau | gh@pbsusa. | | | |
| Location: Cas | scade Room 4 | 32 | | NIOSH METHOD 7402 - Labco | or inc. | | | | ٠. | | - | bsusa.com d@pbsusa.co | | | |
| Contractor: N | V/A | | | | ! | | | | | reter.5 | censian | awpususa.cc | 7111 | • | |
| Client: DES | | | | | | | | | | İ . | | | | | |
| | HED BY (SIGN | | DATE/TIME | : 5/5/2022 | ANALYZE | D BY: | <u> </u> | · | DATE/ | TIME: | | TWA: | F | | |
| RECEIVED B | Y (SIGN.): | | DATE/TIME | 12 000 | ANALYZE | YZED BY: DATE/TIME: | | | | | 1 | | | | |
| CODES: P PERSONAL C IWA INSIDE AREA A OWA OUTSIDE AREA B | | | | C CLEARANCE A AMBIENT AIR | CLEARANCE PRE PRE-ABA AMBIENT AIR EX EXCURSI | | | | GBA H | GLOVE I HEPA | BAG AR | REA | | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | LOCATION BLANK TIME TIME TOTAL | | | PRE | FLOW POST | AVG | TOTAL VOL | <u>FIB</u> FLD | FIB CC | | |
| 5/5/2022 | IA-005 | Α | 7052 | CAS 432 east side of the room | | 7:33 | 14:43 | 430 | 10 | 10 | 10 | 4300 | | | |
| 5/5/2022 | IA-006 | Α | 211607 | CAS 432 west side of the room | * (| 7:33 | 14:43 | 430 | 10 | 10 | 10 | 4300 | | | |
| 5/5/2022 | IA-007 | В | NA | Field Blank | | - | | - | - | - | - | - | | | |
| 5/5/2022 | IA-008 | В | NA | Field Blank | i | - | | - | - | | - | - | | | |
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NIOSH 7402 - TEM - Direct Report

Job Number: 220474 Report Number: 220474R02 **Report Date: 5/9/2022**

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Sampled: | Date Received: |
|--------------|----------------------|---------------------------|----------------|------------------|-------------------|
| 220474 - S1 | IA-005 | NIOSH 7402 - TEM - Direct | | 5/5/2022 | 5/5/2022 |
| 220474 - S2 | IA-006 | NIOSH 7402 - TEM - Direct | | 5/5/2022 | 5/5/2022 |
| 220474 - S3 | IA-007 | NIOSH 7402 - TEM - Direct | | 5/5/2022 | 5/5/2022 |
| 220474 - S4 | IA-008 | NIOSH 7402 - TEM - Direct | | 5/5/2022 | 5/5/2022 |

NIOSH 7402 - Preparation and analysis of the above samples was conducted in accordance with the NIOSH method 7402 for the identification TEM - Direct of asbestos. The samples were collapsed with dimethylformamide (DMF) / acetic acid, carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification of 900x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Derk Wipprecht Laboratory Supervisor

Page 1 of 11



NIOSH 7402 - TEM - Direct Rapid Summary - Final Report

Job Number: 220474 SEA Report Number: 220474R02
Client: PBS Engineering + Environmental Date Received: 5/5/2022

Project Name: Pierce College Olympic South Abatement and Repairs

| Lab/Cor Sample No. | Client Sample No. | Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count¹ Prim/Total | Analytical Sens. (fiber/cc) : |
|-----------------------|-------------------|-------------------|-----------------------------------|--|-------------------------------|-------------------------------------|
| S1 | IA-005 | NIOSH ASBESTOS | < 0.0002 | 0 - 0.0008 - Poisson | 0 | 0.00021 |
| S2 | IA-006 | NIOSH ASBESTOS | < 0.0002 | 0 - 0.0008 - Poisson | 0 | 0.00021 |
| S3 | IA-007 | NIOSH ASBESTOS | Not Applicable | Not Applicable | 0 | NA |
| S4 | IA-008 | NIOSH ASBESTOS | Not Applicable | Not Applicable | 0 | NA |

Reviewed by:

x A Nymell X

Laboratory Supervisor

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



NIOSH 7402 - TEM - Direct Summary Data - Final Report

Job Number: 220474 SEA

Client: PBS Engineering + Environmental Report Number: 220474R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Lab/Cor Sample No.: S1 Volume (L): 4300

Client Sample No.: IA-005 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification Grid Openings Analyzed: 40
SB 5/9/2022 JEOL-Sr 1200 1200 Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.424
Analytical Sens. (fiber/cc): 0.00021

| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count¹ Prim/Total |
|-----------------------------|-----------------------------------|--|-------------------------------|
| NIOSH ASBESTOS | < 0.0002 | 0 - 0.0008 - Poisson | 0 |
| NIOSH NonASBESTOS | < 0.0002 | 0 - 0.0008 - Poisson | 0 |
| NIOSH Libby-Other Amphibole | < 0.0002 | 0 - 0.0008 - Poisson | 0 |
| NIOSH Total Fibers | < 0.0002 | 0 - 0.0008 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Volume (L): 4300

Client Sample No.: IA-006

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification

Grid Openings Analyzed: 40

Analyst(s) Analysis Date SB 5/9/2022 JEOL-Sr 1200 Magnification Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.424
Analytical Sens. (fiber/cc): 0.00021

| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count¹ Prim/Total |
|-----------------------------|-----------------------------------|--|-------------------------------|
| NIOSH ASBESTOS | < 0.0002 | 0 - 0.0008 - Poisson | 0 |
| NIOSH NonASBESTOS | 0.0011 | 0.0003 - 0.0025 - Poisson | 5 |
| NIOSH Libby-Other Amphibole | < 0.0002 | 0 - 0.0008 - Poisson | 0 |
| NIOSH Total Fibers | 0.0011 | 0.0003 - 0.0025 - Poisson | 5 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



NIOSH 7402 - TEM - Direct Summary Data - Final Report

Job Number: 220474 SEA

Client: PBS Engineering + Environmental Report Number: 220474R02

Lab/Cor Sample No.: S3 Volume (L): 0

Client Sample No.: IA-007 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification Grid Openings Analyzed: 40

SB 5/9/2022 JEOL-Sr 1200 1200 Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.424 Analytical Sens. (fiber/cc): NA

| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count¹ Prim/Total |
|-----------------------------|-----------------------------------|--|-------------------------------|
| NIOSH ASBESTOS | Not Applicable | Not Applicable | 0 |
| NIOSH NonASBESTOS | Not Applicable | Not Applicable | 0 |
| NIOSH Libby-Other Amphibole | Not Applicable | Not Applicable | 0 |
| NIOSH Total Fibers | Not Applicable | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4 Volume (L): 0

Client Sample No.: IA-008

Lab Filter Area (mm2): 385

Applyed Applyed Date Microscope Magnification Grid Openings Analyzed: 40

Analyst(s) Analysis Date Microscope Magnification

SB 5/9/2022 JEOL-Sr 1200 1200 Area Analyzed (mm2): 0.424

Analytical Sens. (fiber/cc): NA

| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count¹ Prim/Total |
|-----------------------------|-----------------------------------|--|-------------------------------|
| NIOSH ASBESTOS | Not Applicable | Not Applicable | 0 |
| NIOSH NonASBESTOS | Not Applicable | Not Applicable | 0 |
| NIOSH Libby-Other Amphibole | Not Applicable | Not Applicable | 0 |
| NIOSH Total Fibers | Not Applicable | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

Derk Wipprecht

Laboratory Supervisor

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220474 SEA NIOSH 7402

Client: PBS Engineering + Environmental Report Number: 220474R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: IA-005

| Client Sample No: IA-005 | | | | | | | | | | | | | |
|--------------------------|-----|------|----|------|-----|-------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G1 | 1 | B41 | | | | NSD | | | | | | | |
| G1 | 2 | B42 | | | | NSD | | | | | | | |
| G1 | 3 | C41 | | | | NSD | | | | | | | |
| G1 | 4 | C42 | | | | NSD | | | | | | | |
| G1 | 5 | E41 | | | | NSD | | | | | | | |
| G1 | 6 | E42 | | | | NSD | | | | | | | |
| G1 | 7 | F41 | | | | NSD | | | | | | | |
| G1 | 8 | F42 | | | | NSD | | | | | | | |
| G1 | 9 | G41 | | | | NSD | | | | | | | |
| G1 | 10 | G42 | | | | NSD | | | | | | | |
| G1 | 11 | H41 | | | | NSD | | | | | | | |
| G1 | 12 | C34 | | | | NSD | | | | | | | |
| G1 | 13 | E33 | | | | NSD | | | | | | | |
| G1 | 14 | E34 | | | | NSD | | | | | | | |
| G1 | 15 | F33 | | | | NSD | | | | | | | |
| G1 | 16 | F34 | | | | NSD | | | | | | | |
| G1 | 17 | G33 | | | | NSD | | | | | | | |
| G1 | 18 | G34 | | | | NSD | | | | | | | |
| G1 | 19 | C32 | | | | NSD | | | | | | | |
| G1 | 20 | E31 | | | | NSD | | | | | | | |
| G2 | 21 | B43 | | | | NSD | | | | | | | |
| G2 | 22 | B44 | | | | NSD | | | | | | | |
| G2 | 23 | C43 | | | | NSD | | | | | | | |
| G2 | 24 | C44 | | | | NSD | | | | | | | |
| G2 | 25 | E43 | | | | NSD | | | | | | | |
| G2 | 26 | E44 | | | | NSD | | | | | | | |
| G2 | 27 | F43 | | | | NSD | | | | | | | |
| G2 | 28 | F44 | | | | NSD | | | | | | | |
| G2 | 29 | H43 | | | | NSD | | | | | | | |
| G2 | 30 | H44 | | | | NSD | | | | | | | |
| G2 | 31 | C31 | | | | NSD | | | | | | | |
| G2 | 32 | C32 | | | | NSD | | | | | | | |
| G2 | 33 | E31 | | | | NSD | | | | | | | |
| G2 | 34 | E32 | | | | NSD | | | | | | | |
| G2 | 35 | F31 | | | | NSD | | | | | | | |
| G2 | 36 | F32 | | | | NSD | | | | | | | |
| G2 | 37 | G31 | | | | NSD | | | | | | | |
| G2 | 38 | G32 | | | | NSD | | | | | | | |
| G2 | 39 | H31 | | | | NSD | | | | | | | |
| G2 | 40 | H32 | | | | NSD | | | | | | | |
| | | | | | | | | | | | | | |



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220474 SEA NIOSH 7402

Client: PBS Engineering + Environmental Report Number: 220474R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Lab/Cor Sample No: S2 Client Sample No: IA-006

| | Client Sample No: IA-006 | | | | | | | | | | | | |
|----|--------------------------|------|-----|----------|-------|--------|-------|--------|------------------------------|----------|---------------------|---------------------------|--|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories | |
| G1 | 1 | C41 | | | NSD | | | | | | | | |
| G1 | 2 | C42 | | | NSD | | | | | | | | |
| G1 | 3 | E41 | | | NSD | | | | | | | | |
| G1 | 4 | E42 | | | NSD | | | | | | | | |
| G1 | 5 | F41 | | | NSD | | | | | | | | |
| G1 | 6 | F42 | NAS | 1 | Fiber | 5.5 | 1 | 5.5 | Non Asbestos Structure | S, Ca | Possible Gypsum | NIOSH_NAM, NIOSH_Total | |
| G1 | 7 | G41 | | | NSD | | | | | | | | |
| G1 | 8 | G42 | | | NSD | | | | | | | | |
| G1 | 9 | H41 | | | NSD | | | | | | | | |
| G1 | 10 | H42 | | | NSD | | | | | | | | |
| G1 | 11 | C51 | | | NSD | | | | | | | | |
| G1 | 12 | C52 | | | NSD | | | | | | | | |
| G1 | 13 | E51 | | | NSD | | | | | | | | |
| G1 | 14 | E52 | NAS | 2 | Fiber | 7 | 1.5 | 4.7 | Non Asbestos Structure | None | Possible Organic | NIOSH_NAM, NIOSH_Total | |
| G1 | 14 | E52 | NAS | 3 | Fiber | 5.5 | 1.5 | 3.7 | Non Asbestos Structure | | | NIOSH_NAM, NIOSH_Total | |
| G1 | 15 | F51 | | | NSD | | | | | | | | |
| G1 | 16 | F52 | | | NSD | | | | | | | | |
| G1 | 17 | G51 | | | NSD | | | | | | | | |
| G1 | 18 | G52 | | | NSD | | | | | | | | |
| G1 | 19 | H51 | | | NSD | | | | | | | | |
| G1 | 20 | H52 | | | NSD | | | | | | | | |
| G2 | 21 | B43 | | | NSD | | | | | | | | |
| G2 | 22 | B44 | | | NSD | | | | | | | | |
| G2 | 23 | C43 | | | NSD | | | | | | | | |
| G2 | 24 | C44 | | | NSD | | | | | | | | |
| G2 | 25 | E43 | | | NSD | | | | | | | | |
| G2 | 26 | E44 | | | NSD | | | | | | | | |
| G2 | 27 | F43 | | | NSD | | | | | | | | |
| G2 | 28 | F44 | | | NSD | | | | | | | | |
| G2 | 29 | G43 | | | NSD | | | | | | | | |
| G2 | 30 | G44 | | | NSD | | | | | | | | |
| G2 | 31 | C31 | | | NSD | | | | | | | | |
| G2 | 32 | C32 | NAS | 4 | Fiber | 12.5 | 2.5 | 5 | Non Asbestos Structure | S, Ca | Possible Gypsum | NIOSH_NAM, NIOSH_Total | |
| G2 | 33 | E31 | | | NSD | | | | | | | | |
| G2 | 34 | E32 | | | NSD | | | | | | | | |
| | | | | | | | | | | | | | |



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220474 SEA NIOSH 7402

Client: PBS Engineering + Environmental Report Number: 220474R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Lab/Cor Sample No: S2 Client Sample No: IA-006

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-----|----------|-------|--------|-------|--------|------------------------------|----------|---------------------|---------------------------|
| G2 | 36 | F32 | NAS | 5 | Fiber | 8.5 | 1.5 | 5.7 | Non Asbestos Structure | None | Possible Organic | NIOSH_NAM, NIOSH_Total |
| G2 | 37 | G31 | | | NSD | | | | | | | |
| G2 | 38 | H31 | | | NSD | | | | | | | |
| G2 | 39 | E24 | | | NSD | | | | | | | |
| G2 | 40 | F23 | | | NSD | | | | | | | |



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220474 SEA NIOSH 7402

Client: PBS Engineering + Environmental Report Number: 220474R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Lab/Cor Sample No: S3 Client Sample No: IA-007

| | Cilent . | Sample N | io: IA- | 007 | | | | | | | | |
|----|----------|----------|---------|---------|---------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim To | t Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G1 | 1 | B41 | | | NSD | | - | - | | | | |
| G1 | 2 | B42 | | | NSD | | | | | | | |
| G1 | 3 | C41 | | | NSD | | | | | | | |
| G1 | 4 | C42 | | | NSD | | | | | | | |
| G1 | 5 | E41 | | | NSD | | | | | | | |
| G1 | 6 | E42 | | | NSD | | | | | | | |
| G1 | 7 | F42 | | | NSD | | | | | | | |
| G1 | 8 | F41 | | | NSD | | | | | | | |
| G1 | 9 | G41 | | | NSD | | | | | | | |
| G1 | 10 | G42 | | | NSD | | | | | | | |
| G1 | 11 | H41 | | | NSD | | | | | | | |
| G1 | 12 | H42 | | | NSD | | | | | | | |
| G1 | 13 | C31 | | | NSD | | | | | | | |
| G1 | 14 | C32 | | | NSD | | | | | | | |
| G1 | 15 | E31 | | | NSD | | | | | | | |
| G1 | 16 | E32 | | | NSD | | | | | | | |
| G1 | 17 | F31 | | | NSD | | | | | | | |
| G1 | 18 | F32 | | | NSD | | | | | | | |
| G1 | 19 | G31 | | | NSD | | | | | | | |
| G1 | 20 | G32 | | | NSD | | | | | | | |
| G2 | 21 | B52 | | | NSD | | | | | | | |
| G2 | 22 | C51 | | | NSD | | | | | | | |
| G2 | 23 | C52 | | | NSD | | | | | | | |
| G2 | 24 | E51 | | | NSD | | | | | | | |
| G2 | 25 | E52 | | | NSD | | | | | | | |
| G2 | 26 | F51 | | | NSD | | | | | | | |
| G2 | 27 | F52 | | | NSD | | | | | | | |
| G2 | 28 | G51 | | | NSD | | | | | | | |
| G2 | 29 | G52 | | | NSD | | | | | | | |
| G2 | 30 | H51 | | | NSD | | | | | | | |
| G2 | 31 | E41 | | | NSD | | | | | | | |
| G2 | 32 | E42 | | | NSD | | | | | | | |
| G2 | 33 | F41 | | | NSD | | | | | | | |
| G2 | 34 | F42 | | | NSD | | | | | | | |
| G2 | 35 | G41 | | | NSD | | | | | | | |
| G2 | 36 | G42 | | | NSD | | | | | | | |
| G2 | 37 | H41 | | | NSD | | | | | | | |
| G2 | 38 | H42 | | | NSD | | | | | | | |
| G2 | 39 | C34 | | | NSD | | | | | | | |
| G2 | 40 | E33 | | | NSD | | | | | | | |



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220474 SEA NIOSH 7402

Client: PBS Engineering + Environmental Report Number: 220474R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Lab/Cor Sample No: S4 Client Sample No: IA-008

| (| Client | Sample I | No: IA- | 800 | | | | | | | | |
|----|--------|----------|---------|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| G1 | 1 | B32 | | | NSD | | | | | | | |
| G1 | 2 | C31 | | | NSD | | | | | | | |
| G1 | 3 | C32 | | | NSD | | | | | | | |
| G1 | 4 | E31 | | | NSD | | | | | | | |
| G1 | 5 | E32 | | | NSD | | | | | | | |
| G1 | 6 | F31 | | | NSD | | | | | | | |
| G1 | 7 | F32 | | | NSD | | | | | | | |
| G1 | 8 | G31 | | | NSD | | | | | | | |
| G1 | 9 | G32 | | | NSD | | | | | | | |
| G1 | 10 | H31 | | | NSD | | | | | | | |
| G1 | 11 | C43 | | | NSD | | | | | | | |
| G1 | 12 | C44 | | | NSD | | | | | | | |
| G1 | 13 | E43 | | | NSD | | | | | | | |
| G1 | 14 | E44 | | | NSD | | | | | | | |
| G1 | 15 | F43 | | | NSD | | | | | | | |
| G1 | 16 | F44 | | | NSD | | | | | | | |
| G1 | 17 | G43 | | | NSD | | | | | | | |
| G1 | 18 | G44 | | | NSD | | | | | | | |
| G1 | 19 | H43 | | | NSD | | | | | | | |
| G1 | 20 | H44 | | | NSD | | | | | | | |
| G2 | 21 | B24 | | | NSD | | | | | | | |
| G2 | 22 | E24 | | | NSD | | | | | | | |
| G2 | 23 | F23 | | | NSD | | | | | | | |
| G2 | 24 | F24 | | | NSD | | | | | | | |
| G2 | 25 | G23 | | | NSD | | | | | | | |
| G2 | 26 | G24 | | | NSD | | | | | | | |
| G2 | 27 | F31 | | | NSD | | | | | | | |
| G2 | 28 | F32 | | | NSD | | | | | | | |
| G2 | 29 | G31 | | | NSD | | | | | | | |
| G2 | 30 | H31 | | | NSD | | | | | | | |
| G2 | 31 | C43 | | | NSD | | | | | | | |
| G2 | 32 | C44 | | | NSD | | | | | | | |
| G2 | 33 | E43 | | | NSD | | | | | | | |
| G2 | 34 | E44 | | | NSD | | | | | | | |
| G2 | 35 | F43 | | | NSD | | | | | | | |
| G2 | 36 | F44 | | | NSD | | | | | | | |
| G2 | 37 | G43 | | | NSD | | | | | | | |
| G2 | 38 | G44 | | | NSD | | | | | | | |
| G2 | 39 | H43 | | | NSD | | | | | | | |
| G2 | 40 | H44 | | | NSD | | | | | | | |
| | | | | | | | | | | | | |



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220474 SEA NIOSH 7402

Client: PBS Engineering + Environmental Report Number: 220474R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Count Categories

NIOSH_ASB NIOSH ASBESTOS NIOSH_NAM NIOSH NonASBESTOS NIOSH_Other NIOSH Libby-Other Amphibole

NIOSH_Total NIOSH Total Fibers

Reviewed by:

Derk Wipprecht

Laboratory Supervisor

APPENDIX C

PBS Documentation

Field Observation Reports, 4/29/2021 to 6/8/2022 Air Sample Data Sheets, 4/30/2021 to 6/6/2022 Air Clearance Sample Inventory Air Clearance Laboratory Data Sheets and Chain of Custody Documentation

PBS Environmental Field Observation Report



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South | Abatement & | Repairs | |
|--|----------------|----------------------|---------------|---------------------------------------|-----------------|----------------|-------------|
| PBS Site Observer(s): Claire Tsa | i, Grega Midd | laugh, Peter Stensla | and | PBS Project No.: 40535.488 | | | 3/23/2021 |
| | | | | DES Project No.: 2021-192 Page 1 of 1 | Time | 8 | am |
| Contractor on Site Personnel: | | | | | Time | | um |
| Project Manager | Yes No | Supervisor \ | Yes No | Summary Phase Status: Mobil | ization / negat | ive air swap c | out |
| Workers | Yes No | Name: Corey Fo | oust | Other Personnel on Site: | | | |
| How Many? +5 | | | | MacDonald Miller | | | |
| Air Monitoring Personnel on sit | e: | | | Olympic Peninsula Constructi | ion (OPC) | | |
| WORK DESCRIPTION: No abate | ment work, Sv | wap out negative a | ir machine | s throughout building | | | |
| WORKER PROTECTION: 1/2 face | respirator, Ty | vek, hard hats, boo | ts, high vis | ibility vest | | | |
| | | | | | | | |
| METHOD OF REMOVAL: N/A | | | | | | | |
| OBSERVATIONS: | | | | | | | |
| | n site switc | hing out negat | ive air m | achines. Corey Foust superv | visor for Dick | kson on sit | e with 5 |
| workers. MacDonald Miller | | | | , , | | | |
| 8:30 PBS, Corey, and John (Thursday. | MacDonald | d Miller) over at | t campus | security, Dickson checkout | keys. More l | keys will be | e available |
| 9:30 PBS run outdoor ambi | ent air sam | ples on all elev | ations of | Olympic South. | | | |
| | | | | LV2 door to re-lite in hall no | ear office 29 | 92. | |
| 10:10 Walk site with John fr | _ | | | | | | |
| 10:30 Dickson workers on b | | | | | | | |
| 11:30 Dickson workers reint | force plasti | c barrier on HV | 'AC louve | ers from Mechanical Room 1 | 73. | | |
| 1:09 Four workers on roof s | | | | | | | |
| 1:50 PBS collect exterior am | nbient air sa | amples. | | | | | |
| 2:30 Dickson leaving site. C morning. | orey comm | nunicated work | ers will c | ontinue swapping out negat | ive air mach | ines tomo | rrow |
| 3:00 PBS off site. | | | | | | | |
| | | | | | | | |
| ITEMS OF CONCERN: None | | | | | | | |
| TIENS OF CONCERN. NOTE | | | | | | | |
| CHANGES IN SCOPE: None | | | | | | | |
| | | | | | | | |
| QUANTITY AND TYPE ACM REN | MOVED THIS S | SHIFT/ PHASE: | | BUILDING/AREA/LOCATION | | | |
| | | | | | | | |
| N/A | | | | Olympic South LV 1/2/3/Roof | | | |
| | | | | | | | |
| | | | | Ω_{I} . | | | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure T Sai

Date 8/23/2021

PBS Environmental Field Observation Report



| | | | | <u> </u> | | |
|---|----------------------|------------------------|---|----------------------------------|-----------------|---------------------|
| Asbestos Contractor: Dick | son | | | Project Name: Olympic South A | Abatement & | Repairs |
| PBS Site Observer(s): Claire Tsai, Peter Stensland, Toan Nguyen | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 8/24/2021 | |
| | | | | Page 1 of 2 | Time | 8 am |
| Contractor on Site Personn | | | | | | |
| Project Manager | Yes No | Supervisor Yes | | Summary Phase Status: Mobiliz | ation / negat | ive air swap out |
| Workers | Yes No | Name: Corey Fous | it | Other Personnel on Site: | | |
| How Many? +5 | | | | MacDonald Miller | | |
| Air Monitoring Personnel o | n site: | | | Olympic Peninsula Construction | n (OPC | |
| WORK DESCRIPTION: Swap | out negative air m | nachine, build clean r | room | | | |
| WORKER PROTECTION: 1/2 | face respirator, Tyv | ek, hard hats, boots, | high visi | bility vest | | |
| METHOD OF REMOVAL: N/ | 'A | | | | | |
| ORCEDI/ATIONIC: | | | | | | |
| OBSERVATIONS: 8:20 PRS on site Dickso | n and Macdona | ald Miller on site | Corev | and 5 workers on site. Three | workers fr | om Macdonald Mill |
| n Room 173. | ii ana iviacaone | ald Willier Off Site | . Corcy | and 5 workers on site. Timee | . WOIKCIS II | om Macaonaia Mili |
| II KOOIII 175. | | | | | | |
| 9:00 PBS review with Co | rey provided sr | nartsheet invent | ory for | ECE contents to retrieve. | | |
| 9:30 Two workers contir | nue swapping o | ut negative air n | nachin | es on roof. One worker assist | loading ne | gative air machines |
| | | _ | | ual barriers with poly sheetin | _ | ~ |
| | • | • | _ | | _ | |
| 9:50 PBS and Corey enter room for storage of ECE | | | eaning. | One worker at exterior door | of Room 1 | 68 building clean |
| 10:00 PBS mark content ohotos of contents to E | | • | pe and | label final location of item t | o be move | d once clean. Uploa |
| 10:30 Dickson workers o | on break. | | | | | |
| 11:14 One worker unloa | iding new nega | tive air machine | s with f | orklift. | | |
| 12:30 Walk Maintenanc framed posters, bandsa | | • | ker. Ite | ms listed in inventory to be c | leaned incl | ude 4 boxes of |
| 1:00 One worker off site | for the day. | | | | | |
| 1:02 Workers continue v | with visual barri | ers on LV1 and o | clean ro | oom outside 168. | | |
| ITEMS OF CONCERN: None | 2 | | | | | |
| | | | | | | |
| CHANGES IN SCOPE: None | | | | | | |
| QUANTITY AND TYPE ACM | REMOVED THIS SH | HIFT/ PHASE: | | BUILDING/AREA/LOCATION | | |
| N/A | | | | Olympic South LV 1/2/3/Roof/Exte | rior | |
| | | | | | | |
| | | | - | Ω | | |

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai

Date 8/24/2021

PBS Environmental Field Observation Report Additional Page



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 8/24/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1:40 One container delivered.

2:00 Two workers building mini enclosure in Room 168 at exterior door for load out to clean room. PBS photo document negative air machines on roof have been swapped out with new machines purchased by the college.

2:20 Two containers dropped off on site, on eat Olympic South on near maintenance shed.

2:30 Dickson workers leaving site for the day.

2:45 PBS off site.

Signature: Claure Tsai

PBS Environmental Field Observation Report



| PAsbestos Contractor: Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|--|-------------------------|-----------------------------|---|---|---|------------------|---------------------|
| PBS Site Observer(s): Clair | PBS Site Observer(s): Claire Tsai, Toan Nguyen, Gregg Middaugh | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 08/25/21 | | |
| | | | | | | Page 1 of 2 | Time 8 | am |
| Contractor on Site Personr | nel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes N | 0 | Summary Phase Status: ECE c | ontents cleaning | |
| Workers | Yes | No | Name: Core | y Foust | | Other Personnel on Site: | | |
| How Many? +6 | | | | | _ | MacDonald Miller | | |
| Air Monitoring Personnel o | on site: | | | | _ | Olympic Peninsula Construct | ion (OPC) | |
| WORK DESCRIPTION: Vacu | iuming and w | iping | surfaces of cle | anable cont | ents | from ECE in room 168 | | |
| WORKER PROTECTION: Ty | vek, half-face | respii | rator, boots, ha | ard-hat | | | | |
| | | | | | | | | |
| METHOD OF REMOVAL: V | acuuming, an | d usin | g rags to wipe | surfaces | | | | |
| | <u> </u> | | <u> </u> | | | | | |
| OBSERVATIONS: | | | | | | | | |
| outside Room 168 with 0830 Workers begin cle 10:30 Notify Corey neg- been swapped with col | poly-shee eaning ECE ative air ma lege purch | t at a cont achir | ents marke ne on roof to | 5. d for rem o main H\ | oval /AC | ers. Workers finished prep from space. PBS run insid unit needs to be patched. nechanical mezzanine. | e the work ar | ea sample. |
| 10:40 Workers on break | ζ. | | | | | | | |
| 10:54 Walk LV1 contain table feet need to be re | | Core | ey. Some co | ntents ha | ve b | een loaded out into clean | room outside | e 168. Felt pads on |
| 11:40 Three workers in ECE office hallway pack | | | • | ts. Negati | ve a | ir machine set up in 168 ir | n cleaning are | a. Three workers in |
| 12:00 Gregg M. On site | | | | | | | | |
| 12:30 Walk third floor v | vith Charle | ne W | l. for remain | ning conte | ents | to be moved out. | | |
| 1:00 One storage conta | iner dropp | ed o | ff in parking | g lot A for | Dic | kson supplies. | | |
| | | | | | | | | |

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

BUILDING/AREA/LOCATION

N/A

Olympic South LV1/exterior

The individual signing certifies that the above information is correct and accurate.

Signature: // Sai

Name: Claire Tsai

Date 8/25/2021

PBS Environmental Field Observation Report Additional Page



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 8/25/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

- 1:20 Enter LV1 containment. Workers cleaning in room 168. PBS communicate bookshelves with slots in the side will remain in the building.
- 2:00 Walk maintenance shed with Corey, Chris (Dickson) and John (MacDonald Miller).
- 2:30 Dickson workers leaving site for the day. Corey still on site.
- 2:45 Visual contents from ECE stored in clean room. Springs on two tier roll desks need additional cleaning. Office roller chairs will be considered not cleanable. PBS collect inside the work area sample. Communicate items that need further cleaning to Corey.
- 4:11 PBS lock roof hatch and building. PBS off site.

Signature: Claure Tsai

PBS Environmental Field Observation Report

information is correct and accurate.



Date: 08/26/21

| Asbestos Contractor: Dick | son | | | Project Name: Olympic South | Abatement & Re | pairs |
|--|---------------------|-------------------------|------------|---|-----------------|-------------------|
| PBS Site Observer(s): Toan | Nguyen, Claire Tsa | ai, Peter Stensland | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 08/26/21 |
| | | | | Page 1 of 2 | Time: 0600 | am |
| Contractor on Site Personn | | | | | | |
| Project Manager | Yes No | Supervisor Yes | No | Summary Phase Status: ECE co | ntents cleaning | |
| Workers | Yes No | Name: Corey Foust | | Other Personnel on Site: | | |
| How Many? +6 | | | | MacDonald Miller | | |
| Air Monitoring Personnel o | n site: | | | | | |
| WORK DESCRIPTION: Vacu | uming and wiping | surfaces, finishing up | critical b | arriers, and taking inventory of ma | terials | |
| WORKER PROTECTION: Tyv | ek, half-face respi | rator, boots, hard-hat, | | | | |
| METHOD OF REMOVAL: N/ | 'A | | | | | |
| | | | | | | |
| OBSERVATIONS: | | | | | | |
| 0600: Dickson on-site, 1 | supervisor and | d 6 workers. PBS c | n site | with 1 technician. | | |
| 0010 D. I | | 1 1 6 | | | . | 1 . 6 . |
| which items are cleanab | • | work and informin | g the v | vorkers of the new agenda. | The workers a | are brieted on |
| 0650: PBS enter the enc | losure and hav | re a high-volume p | oump t | aking air sample thru a PCM | 1 cassette at 8 | BL/min. |
| 0700: Dickson is taking | inventory of th | eir equipment and | d mate | rials (vacuums and any item | s with a serial | l number). There |
| was 1 worker in the woo | • | • • | | | | , , , |
| Claire and Peter from PE McDonald-Miller emplo | | Andy from PBS-Po | ortland | is also on-site to give an as | bestos aware | ness lecture to |
| 0800: PBS enters the ento wipe the "monster bl | | | is curr | ently working on. Dickson is | s currently usi | ng water and rags |
| 1030: Dickson is on lund barriers on the second f | | | critical | barriers are now up. Dickso | n will put up | more critical |
| 1100: PBS and McDonal | d Miller on lun | nch for 45 minutes | | | | |
| 1115: Dickson back fron | n lunch. | | | | | |
| 1145: PBS and McDonal | d Miller back f | rom lunch. | | | | |
| ITEMS OF CONCERN: None | | | | | | |
| | | | | | | |
| CHANGES IN SCOPE: None | | | | | | |
| QUANTITY AND TYPE ACM | REMOVED THIS S | HIFT/ PHASE: | | BUILDING/AREA/LOCATION | | |
| NA | | | | Room 168 of OLY S building. | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| The individual signing certi | fies that the above | 2 | | Signature: Toan Nguyen | | |

Name: TOAN NGUYEN

PBS Environmental Field Observation Report Additional Page



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 08/26/21 |
|---|---------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: TOAN NGUYEN | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1200: PBS enter the enclosure to check on Dickson's work progress. Dickson is now on the second floor of the Olympic South building putting up visual barriers on windows. There are 3 Dickson workers in room 168 HEPA vacuuming wooden shelfs. Corey and Chris (Dickson) are by the connex and using the forklift to place the generator into place.

1300: Two workers hanging poly on the second level sky bridge and art display room windows. Two workers using wet rags and HEPA vacuums to clean off wooden blocks and a wooden shelf in cleaning area of 168.

1330: One worker entering containment to assist with hanging poly for visual barriers on windows.

1400: Dickson off-site.

1500: PBS and McDonald Miller off-site.

Signature: Tean Nguyen

Name: TOAN NGUYEN Date: 08/26/21

PBS Environmental Field Observation Report

information is correct and accurate.



Date: 08/27/21

| Asbestos Contractor: Dic | kson | | Project Name: Olympic South Abatement & Repairs | | | | | |
|--|--------------------|-------------------------------|---|---|----------------------|------------------|--|--|
| PBS Site Observer(s): Toan Nguyen, Claire Tsai, Peter Stensland, Gregg Middaugh | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 08/27/ | | | | |
| | | | | Page 1 of 2 | Time: 0600 | am | | |
| Contractor on Site Personi | nel: | | | C PI C: - 505 | | | | |
| Project Manager | Yes N o | o Supervisor Ye | es No | Summary Phase Status: ECE of yard | content cleaning/pre | p at Maintenance | | |
| Workers | Yes No | o Name: Corey Fou | ıst | Other Personnel on Site: | | | | |
| How Many? +5 | | | | MacDonald Miller | | | | |
| Air Monitoring Personnel of WORK DESCRIPTION: Dick | | p vacuuming and wipi | ing surface | es of equipment and material inside | de of room 168. | | | |
| WORKER PROTECTION: Ty | vek, half-face res | pirator, boots, hard-ha | at | | | | | |
| METHOD OF REMOVAL: N | /A | | | | | | | |
| OBSERVATIONS: | on on-site wit | th 5 workers Core | av hriefe | d the workers about the da | ov's agenda and | evnectation | | |
| | | | • | | iy s agerida arid | expectation. | | |
| 630 PBS enter the LV1 | enclosure. Ru | ın IWA sample in | Room 10 | 68. | | | | |
| 800 Dickson re-erecte ight. | d the poly-she | eet barrier of doo | rway to I | Room 168. The poly-sheet | fell down some | time over the | | |
| 930 There are 3 worke nclosure in room 168 | • | | • | etting power for the conne CE contents. | ex. There are 3 w | orkers inside | | |
| 030 Dickson's crew is | on lunch. | | | | | | | |
| 100 MacDonald-Mille | r and PBS are | attending the 16- | ·Hours A | sbestos course. | | | | |
| 115 Dickson back fror | n lunch. Work | ers return to prev | ious task | CS. | | | | |
| 130 MacDonald-Mille | r and PBS on I | unch. | | | | | | |
| 140 PBS visual ECE co | ntents stored | in clean room out | tside 168 | 3. Items look good. | | | | |
| 215 MacDonald-Mille | r and PBS bac | k from lunch. | | | | | | |
| 230 Workers begin pr | ep of Mainten | ance shed. | | | | | | |
| ::00 PBS microvac repr | esentative iter | ns from ECE conto | ents stor | red in clean room. | | | | |
| ITEMS OF CONCERN: N/A | | | | | | | | |
| CHANGES IN SCOPE: N/A | | | | | | | | |
| QUANTITY AND TYPE ACM | I REMOVED THIS | SHIFT/ PHASE: | | BUILDING/AREA/LOCATION | | | | |
| N/A | | | | Olympic South Building – Floor 1 | thru 3 | | | |
| | | | | | | | | |
| | | | | | | | | |
| The individual signing cert | | | | Signature: Tean Nguyen | | | | |

Name: Toan Nguyen

PBS Environmental Field Observation Report Additional Page



| Project Name: Olympic South Abatement & Repairs | Project No.: 40535.488 | Date: 08/27/21 |
|---|---------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Toan Nguyen | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

3:00 Fencing rental company is in the process of setting up the construction barrier fencing. MacDonald-Miller is staying behind until the fence is fully erected.

3:45 PBS off-site.

Signature: Tean Nguyen

The individual signing certifies that the above information is correct and accurate.

Name: Toan Nguyen

Date: 08/27/21

PBS Environmental Field Observation Report



| Asbestos Contractor: Dick | son | | | | | Project Name: Olympic Sou | ıth Abatement & F | Repairs | |
|--|--------------------------------------|-----------------------|-----------------------------|----------|---|--|-------------------|--------------------------|------------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland, | | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | Date: 8/30/2021 | | | |
| | | | | | | Page 1 of 2 | Time | 6 | am |
| Contractor on Site Personn | el: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: Ma | intenance Yard Th | eater Conte | nts |
| Workers | Yes | No | Name: Core | y Foust | | Other Personnel on Site: | | | |
| How Many? +7 | | | | | | MacDonald Miller (MM) | | | |
| Air Monitoring Personnel o | n site: | | | | | Olympic Peninsula Constru | ıction | | |
| WORK DESCRIPTION: Wet WORKER PROTECTION: ½ | | | | | | e at Maintenance Yard | | | |
| METHOD OF REMOVAL: N | /A | | | | | | | | |
| OBSERVATIONS: | n MacDa | n ald l | Millor and C | NDC are | on sit | to Tura waylaya ahaalina | nogativo sir n | a a china a | oviti oo l |
| | | | | | | te. Two workers checking | • | | |
| | | | | | nachii | ne pre filters. Two worke | rs and Chris (D | ickson) ov | er at |
| Maintenance yard prep | ping the m | nainte | enance build | ding. | | | | | |
| tool storage area, roll u inside. Negative air mad between roll up door ar | p door to chines exh nd dumpst | back auste ter. | of maintena d out exteri | ance shi | ed is o | als at the maintenance bucclosed. 4 negative air ma or. Workers prepping an | chines and two | o HEPA va g as a visu | cuums are |
| 7:00 Workers double lin | e dumpst | er at | maintenanc | e buildi | ing. D | umpster is stationed at t | he exterior roll | up door. | |
| | ig floor, or | ne wo | orker assistir | ng from | outs | t wet wiping and HEPA voide. Peter (PBS) in work a air samples. | • | | • |
| 8:45 Toan (PBS) collectii | ng microv | ac sa | mples from | conten | ts in s | torage shed at south ext | erior of ECE. | | |
| 9:00-10:30 PBS, Dickson protected. | ı, MM and | Char | lene W. wal | lk third | floor | and roof. Current plan is | for classroom | ceilings to | b be |
| 9:30 One worker exits c | ontainmer | nt to | get more su | ipplies. | | | | | |
| 10:00 Two Dickson work | cers in Roo | om 32 | 26 changing | g negati | ve air | machine pre filter. | | | |
| ITEMS OF CONCERN: None | 2 | | | | | | | | |
| | | | | | | | | | |
| CHANGES IN SCOPE: None | | | | | | | | | |
| QUANTITY AND TYPE ACM | I REMOVED ¹ | THIS S | HIFT/ PHASE: | | | BUILDING/AREA/LOCATION | | | |
| | | | | | | , , | | | |

The individual signing certifies that the above information is correct and accurate.

Asbestos contaminated theater storage contents from Maintenance

No bulk removal

Yard

Signature: Clause T sai

Name: Claire Tsai

Early Childhood Education shed

Olympic South LV1/2/3/roof, Maintenance yard theater storage,

Date 8/30/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 8/30/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

10:05 Another worker enters Maintenance yard containment, begins assisting with tool cleaning. Two workers cleaning tools, one worker vacuuming tools and one worker moving items for disposal in ACM dumpster.

10:30 Dickson workers take lunch.

11:00 One storage connex dropped off in Parking Lot A.

11:30 Two workers, tasked with negative air/mini enclosures, adjusting connex in lot A with forklift.

12:45-1:45 PBS investigate LV3 walls with Corey for wall cavities open to return plenum above. 5 workers continue cleaning tools at maintenance yard.

1:30 3 Dickson workers continue wet wiping and HEPA vacuuming large machinery (detail cleaning) and beginning to prepare the work area for end of day. PBS collect inside and outside work area samples.

2:10 Dickson workers exit containment. Waste dumpster closed and locked, roll up door shut, Maintenance building locked. Workers return to work trailer area.

2:30 Dickson workers leaving site.

2:40 PBS lock Olympic South Building and leave site. Corey still on site. Some MacDonald Miller employees still on site

Signature: Clause T sau

Name: Claire Tsai



| Asbestos Contractor: Dickson | Project Name: Olympic South | n Abatement & I | Repairs | |
|--|---|------------------|---------------|-----------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland, | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 8 | 3/31/2021 |
| | Page 1 of 2 | Time | 6 | am |
| Contractor on Site Personnel: | | | | |
| Project Manager Yes No Supervisor Yes No | _ <u> </u> | tenance Yard Th | neater Conter | nts |
| Workers Yes No Name: Corey Foust | Other Personnel on Site: | | | |
| How Many? +8 | MacDonald Miller (MM) | | | |
| Air Monitoring Personnel on site: WORK DESCRIPTION: Wet wipe and HEPA vacuum tools from theater sto | Olympic Peninsula Construc | | 3 and 329 | |
| WORKER PROTECTION: ½ face respirator, Tyvek, boots, vest, hard hat | | | | |
| METHOD OF REMOVAL: N/A | | | | |
| OBSERVATIONS: | | | | |
| 6:00 PBS on site. Dickson, MacDonald Miller and OPC are on | • | | _ | _ |
| meeting. 4 workers on level 3 building containment in room | 329 to provide MM with acc | ess to the flo | or supply | plenum to |
| assist with "safe-off" of the building. | | | | |
| remaining material in the tool section before opening the docleaned from the storage section. Two negative air machines continues photo documenting items prior to disposal. | s running. PBS initiates IWA a | ind OWA air | samples. P | BS |
| 7:30 Two Dickson workers cleaning paint and chemical cans, racks before cleaning them. Workers are HEPA vacuuming the mist the work area periodically. | | | | |
| 8:00 Workers loading in scissor lift into work area through ga | arage door. 4th Dickson worl | ker enters the | e work are | э. |
| 8:20 One Dickson worker on a lift hanging poly at the top of room and the other half of the maintenance building. One w the room. | | | | • |
| 8:45 Fifth worker entering the work area for Dickson. | | | | |
| 9:01 4 workers in Room 329 continue to contain the room w | ith polyethylene sheeting. Th | ne floor is cor | nplete and | the walls |
| are now being covered. PBS ambient sample running in LV3 | . , , | | ' | |
| ITEMS OF CONCERN: None | · · · · · · · · · · · · · · · · · · · | | | |
| TILING OF CONCERN. NOTE | | | | |
| CHANGES IN SCOPE: None | | | | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION | | | |
| No bulk removal | Olympic South LV3 and Maintena | ance yard theate | er storage | |
| Asbestos contaminated theater storage contents from Maintenance Yard | | | | |
| | | | | |

The individual signing certifies that the above information is correct and accurate.

Signature: WWW / WWW

Name: Claire Tsai Date 8/31/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 8/31/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

9:45 Workers found a sound board in one of the boxes. It will be set aside for now. Charlene W. determined that this should be disposed of. PBS photo document prior to disposal.

10:00 PBS stops IWA pump. 3 workers still wet wiping down shelves and racks. Two workers moving supplies to allow for poly sheeting application.

10:10 Negative air power shut down for 10 minutes.

10:30 Dickson worker take lunch.

11:15 Workers back from lunch. PBS started a new IWA sample in the mechanical maintenance building.

11:30 Walk third floor with Corey. Workers continue prepping Classrooms 329 and 328. Workers will cover fiberglass insulation above ceiling space in 329 closet and pipe penetrations above drop ceiling to hall.

12:00 Workers cleaning up the floor with HEPA vacuums. Two workers are laying poly sheeting over the cleaned items. And misting down the machinery.

12:10 PBS walks theater contents stored in Cascade Bldg. with John and Corey. Current pad lock cut and replaced with a Dickson padlock.

1:30 PBS meets with two IT employees at LV3 to view equipment in Room 321. Dickson workers continue prep work in Room 327, 328, and 329.

1:55 PBS notifies Corey ECE contents have been passed microvac screening. Items can be moved to their final destination once college has confirmed receiving areas are ready.

2:10 IT employees finished on LV3, communicate one worker will be back around 4 to get racks. Dan T. with Pierce College will retrieve key for LV3 door from PBS to provide IT access later today. Dickson workers exiting Maintenance building work area for the day. Building and waste trailer locked. Workers head back to work trailer area. PBS collect air samples.

2:30 Dickson workers leaving site. PBS collect Ambient air samples from LV3 hallway.

3:00 Dan T. and Patrick C. pick-up key to LV3 construction door.

3:15 PBS off site. Building locked. Corey still on site will shut off generator.

Signature: Claure Tagai

Name: Claire Tsai

Date 8/31/2021



| Ashartas Contractor: Dickson | | | | Drainet Names Ohmania Couth Abatamant & Danaire | | | | |
|--|----------------------------------|--|-----------|---|-------------------|---------------|---------------|--|
| Asbestos Contractor: Dicl | | | | Project Name: Olympic South Abatement & Repairs | | | | |
| PBS Site Observer(s): Clair Stensland | e Tsai, Mike Smi | th, Toan Nguyen, Peter | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 9 | ate: 9/1/2021 | |
| | | | | Page 1 of 2 | Time | 6 | am | |
| Contractor on Site Personi | nel: | | | | | | | |
| Project Manager | Yes N | o Supervisor Yes | No | Summary Phase Status: Mai | ntenance Yard Th | neater Conte | nts | |
| Workers | Workers Yes No Name: Corey Foust | | | Other Personnel on Site: | | | | |
| How Many? +11 | | | | MacDonald Miller (MM) | | | | |
| Air Monitoring Personnel | on site: | | | Olympic Peninsula Construc | ction (OPC) | | | |
| WORK DESCRIPTION: Wet | wipe and HEPA | vacuum tools from theate | er storac | ge at Maintenance Yard. Prep co | ontainment in 328 | 3 and 329. De | eliver | |
| ECE cleaned contents | • | | | | | | | |
| WORKER PROTECTION: 1/2 | face respirator. | Tyvek, boots, vest, hard ha | at | | | | | |
| | | | | | | | | |
| METHOD OF DEMOVAL. | 1/4 | | | | | | | |
| METHOD OF REMOVAL: N | /A | | | | | | | |
| 0.000001100110 | | | | | | | | |
| OBSERVATIONS: | Ma aD a sa al | d Miller and ODC and | | t. C | ita Dialaa | | | |
| | on, MacDonai | a Miller and OPC are | e on si | te. Corey and 8 workers o | n site. Dickso | n naving a | morning | |
| meeting. | | | | | | | | |
| 6·30 5 Dickson workers | nrenaring to | enter the Maintenar | nce hu | ilding work area. Workers | s removing th | eater item | s from | |
| | | | | • | • | | | |
| _ | | | ers mo | ving cleaned ECE content | is from Clean | room to C | nympic | |
| North 112, Cascade 520 | 0, and Interna | tional House 103. | | | | | | |
| 7:00 Two workers settir | na up 2 neaat | ive air machines in t | he Ma | intenance building back s | storage area. 3 | 3 workers i | removina | |
| contents and setting up | • . | | | | | | | |
| contents and setting ap | DICKSOITS at | Thomasing | | | | | | |
| 7:30 Dickson workers b | eginning to c | lean off the framed I | poster | s the theater department | requested to | keep and | begin to | |
| seal up the waste traile | r for removal. | | | | | | | |
| 0.00 5 | 125 | | | | | | | |
| | | | _ | in room, I-beam penetra | | | _ | |
| been sealed. Five worke | ers at Mainter | nance building Chris | outsic | de containment operating | forklift, 4 wo | rkers insid | e cleaning | |
| theater posters. Two wo | orkers deliver | ing ECE cleaned con | tents | | | | | |
| 8:30 4 Dickson workers | HEPA vacuur | ning framed posters | and v | viping them down with w | et rags. | | | |
| 8:40 One worker leaving | g maintenand | e building work area | Э. | | | | | |
| 0.00 T | - win FCF - | - المسلم المسلم | C | de FOO end Observate No. 11 | . 110 la | - DDC ! | l. | |
| | • | | | de 520 and Olympic North | | | | |
| International House 10 | 3 (IH) for rem | ainder of contents. D | Dickso | n moved box truck with E | CE contents to | o IH103 tw | o worker | |
| begin unloading conte | nts. Two work | ers move from LV3 t | to roo | f to build 15-foot perimet | er around ed | ge. | | |
| ITEMS OF CONCERN: Non | e | | | | | | | |
| _ | | | | | | | | |
| CHANGES IN SCOPE: None | e | | | | | | | |
| QUANTITY AND TYPE ACM | A REMOVED THIS | S SHIFT/ PHASE: | | BUILDING/AREA/LOCATION | | | | |
| No bulk material | | , | | -, , , === | | | | |
| ACM contaminated theate | er contents from | maintenance building | | Olympic South LV3/Roof | | | | |
| ACIVI CONTAININATED THEATE | a contents nom | manitenance bulluling | | | | | | |
| | | | | Maintenance Building | | | | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure T Sai

Name: Claire Tsai

Date9/1/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/1/2021 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

- 9:30 Down to one worker in the maintenance building work area cleaning items. And one supervisor checking in, 3 workers leaving work area.
- 9:55 One worker returns to maintenance building. Workers are removing items from shelving to make for easier disposal.
- 10:30 Dickson workers stop for lunch.
- 11:15 Dickson workers return to previous tasks. Corey communicates to PBS, MM employees will be entering floor supply plenum from Room 329 shortly.
- 11:20 MM workers in classroom 329 prepare to enter floor supply plenum containment. Dickson and PBS in area. Dickson works delineate area around floor hatch and place drop cloth on floor over poly sheeting. Dickson smoke test floor hatch opening, negative pressure in floor supply plenum. Two MM employees enter floor supply plenum from Room 329 to investigate for safe-off. One Dickson worker present at floor hatch opening available for assistance. PBS run OWA sample in room 329.
- 12:22 Two MM workers in floor supply plenum exit hatch in room 329. Workers doff PPE. Dickson worker in area for assistance if needed.
- 12:30 Discuss three week look ahead schedule with Dickson and MM.
- 1:00 Dickson workers cleaning remaining ECE contents now that Room 168 clean room is empty. Workers continue on LV3 hanging poly sheeting in Room 327.
- 2:30 Dickson workers leaving site for the day. PBS collect ambient air samples in LV3 Hall and OWA sample in Room 329.
- 3:15 PBS leaving site. MM shut off generator and leave site. Corey still on site waiting for Le May to drop off and pick up waste trailer at maintenance building.

Signature: Claure Tstai.
Name: Claire Tsai



| PBS Environmental | Field Observa | ation Report | | | | | DJ |
|---|--------------------|--------------------------|--|---|----------------|-------------|-------------|
| Asbestos Contractor: Dic | kson | | | Project Name: Olympic South | Abatement & R | Repairs | |
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | 9/2/2021 | |
| | | | | Page 1 of 2 | Time | 6 | am |
| Contractor on Site Person | nel: | | | | | | |
| Project Manager | | | | Summary Phase Status: Maint | enance Yard Th | eater Conte | nts |
| Workers | Yes No | Name: Corey Foust | | Other Personnel on Site: | | | |
| How Many? +11 | | | | MacDonald Miller (MM) | | | |
| Air Monitoring Personnel | on site: | | | Olympic Peninsula Construction | on (OPC) | | |
| Lounge 3 rd fl, Dispose of c | | vek, boots, vest, hard h | at | | | | |
| METHOD OF REMOVAL: N | I/A | | | | | | |
| meeting. | | | | te. Corey and 8 workers on ince Building for ACM mate | | | |
| sheeting and wiring the | | | ппспа | ince building for Acivi mate | and by minig | y the misia | e with poly |
| 6:45 Corey notified abo | out a fridge in th | ne maintenance sto | orage | room. | | | |
| 7:00 Three workers insi | de of the Maint | enance work area | setting | g up negative air machines | and donning | g propped | PPE. |
| 7:10 Remaining ECE clessamples today. | eaned contents | have been moved | to clea | an room outside 168. PBS p | ass visual, w | ill collect | microvac |
| | cer in 166 with c | art rolling sealed l | bags to | disposing contents. Mini de o LV1 decon. HEPA vacuum | | | - |
| floor. Currently rooms | 327, 328, and 3 | 29 have poly sheet | ting ap | rk area. Meet with Corey or plied to floors, walls and couction door and LV3 stairwe | eilings. Subse | equent eff | forts will |

08:00 2 Dickson workers continue with preparing the 3rd Fl. work area. Meet with Corey on the 3rd Fl to discuss plan for the floor. Currently rooms 327, 328, and 329 have poly sheeting applied to floors, walls and ceilings. Subsequent efforts will include installing critical barriers on the student lounge construction door and LV3 stairwell access. Workers will also be continuing to prep the student lounge and investigate walls to determine which have closed or open upper sill plate access to interior wall cavities. Good negative present on the 3rd floor is indicated by the strong draw on the temporary construction door after opening.

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

BUILDING/AREA/LOCATION

No bulk material

Olympic South LV3 and LV1

ACM contaminated theater contents from Maintenance Building and

Room 166A

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsui

Name: Claire Tsai

Date9/2/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/2/2021 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

8:00 3 Dickson workers and one supervisor disassembling large materials and disposing of them in the ACM container at Maintenance Building.

08:30 Macdonald-Miller Safety Director on site.

9:00 PBS microvac remaining ECE cleaned contents from 168 exterior clean room.

09:15 Work efforts continues on the Maintenance building by 3 workers and a supervisor. The new disposal container is approximately 90% full. The container is filled with wood items from the theater storage area. All power tools have been cleaned and are protected by poly sheeting wraps. The rolling metal carts to be saved have also been cleaned and protected by poly sheeting wraps. PBS air sampling is in progress inside and outside of the work area. Abatement contractor air sampling in progress includes inside of the work area and personnel.

09:30 Macdonald-Miller Safety Director departs site. The fridge in Maintenance building is set aside for proper disposal.

10:30 Workers in Maintenance Building beginning decon for lunch.

11:00 Meet with Todd Larsen, discuss negative air machines on the 3rd floor. Todd will bring a manometer to check the negative air pressure on this floor. Discussions also included potentially adding a clean room to the 2nd floor for storage of cleaned items – more discussions will need to follow for this potential action.

11:15 Workers return to work in maintenance building. A new container is coming in.

11:20 Meet with Dickson and Macdonald Miller discuss weekly progress for 2pm meeting.

11:40 Macdonald Miller employee ready for access to LV3 floor supply plenum to start safe off. Two Dickson employees from LV3 come down to unload Abatix delivery.

12:00 Two MacDonald Miller employees on LV3 in 329. Two Dickson employees return to LV3. One worker assisting Macdonald Miller, one worker continues hanging poly sheeting. PBS run OWA sample in 329. 5 workers continue with 166A contents disposal as before. PBS in area to document items prior to disposal.

12:15 Two Dickson workers have finished lining the new dumpster and are moving it into position. Two Dickson workers are inside moving the waste materials closer to the exit off shelves for easy disposal.

2:00 Collect air samples from 166A and LV3.

2:10- 2:30 Dickson workers deconing out of containments for end of day. Head to work trailer area for end of day meeting before leaving site.

2-3 Weekly construction meeting.

3:30 PBS check doors then leaving site. Corey and MacDonald Miller still on site.

Signature: Claure Tsai

Name: Claire Tsai

Date 9/2/2021



| Asbestos Contractor: [| Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | | |
|--|--|---------------------|--------------|-----------|---|---|--------------------|-----------|-----------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland | | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date | | 9/3/2021 | | |
| | | | | | | Page 1 of 2 | Time | 6 | am |
| Contractor on Site Perso | onnel: | | | | | | | | |
| Project Manager | Project Manager Yes No Supervisor Yes No | | | No | Summary Phase Status: | Maintenance Yard Th | neater Conte | ents | |
| Workers | Vorkers Yes No Name: Corey Foust | | | | Other Personnel on Site | : | | | |
| How Many? +11 | | | | | | MacDonald Miller (MM) |) | | |
| Air Monitoring Personn | el on site: | | | | | Olympic Peninsula Cons | struction (OPC) | | |
| METHOD OF REMOVAL | · Wet wine and I | HEDA | vacuum | | | | | | |
| METHOD OF REMOVAL | : Wet wipe and I | HEPA | vacuum | | | | | | |
| OBSERVATIONS: | | | | | | | | | |
| 5:00 PBS on site. Dick meeting. | sson, MacDor | nald | Miller and C | OPC are o | on site | e. Corey and 10 work | ers on site. Dicks | on having | a mornin |
| i:10 2 Dickson worke | ers continue 3 | 3 rd flo | oor preparat | tion appl | ying | poly sheeting to winc | lows and walls. 1 | of those | workers w |
| | | | | | | | | | |
| ssist MM worker wh | en he enters | the: | supply plen | um to co | ntinu | ie safe-off efforts. 4 w | orkers will be in | 166A Lvl | 1 |

6:30 3 Dickson workers putting on PPE to enter into the work zone in the maintenance building. Pbs starts IWA and OWA air pumps.

7:00 1 MM worker preparing to enter the supply plenum on the 3rd floor. 1 Dickson worker moves from prep efforts to assist the MM employee, this Dickson worker will not go into the sub-floor space but will in PPE at the hatch entry should he be needed for anything. The other 3rd floor Dickson workers continue with applying poly sheeting to windows around the 3rd floor perimeter. 3 Dickson workers removing waste and disposing of it in the ACM container at the maintenance building.

7:30 4 workers in LV1 containment. Three workers in 166A disposing contents. Mini decon built outside 166A and sticky mat on floor. One worker in 166 with cart rolling sealed bags to LV1 decon. HEPA vacuum outside of bag. Another worker in clean room receiving bags and transfers to waste trailer. PBS documenting items disposed of.

| ITEMS OF CONCERN: None | |
|---|---------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| No bulk material | Olympic South LV3 and LV1 |
| ACM contaminated theater contents from Maintenance Building and | Maintenance Building |
| Room 166A | |
| | |

Signature:

The individual signing certifies that the above information is correct and accurate.

Mame: Mike Smith

Date9/3/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/3/2021 |
|---|-------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

7:45 4 workers in the maintenance building are using a drill to unscrew the various wooden materials to get them as small as possible for disposal. Water is sprayed periodically throughout the work area in order to keep dust to a minimum. 7:55 Charlene W. confirms casework, shelving, and furniture from 166A will not be saved and crew may demolish.

8:15 Workers in the maintenance building are closing up the ACM bin (it is now full).

09:00 Workers in 166A continue to remove and dispose of stored items within the space. Workers in the maintenance building continue vacuuming off wall ledges and other flat surfaces with HEPA vacuums as well as removing waste for disposal from shelving and staging it for disposal for when the next container is prepped.

10:00 The MM worker in the 3rd floor air supply plenum has exited from the space. PBS air monitoring in progress at the hatch entry and another ambient location on the 3d floor.

10:30 Dickson workers take a 45 min lunch break and resume work.

11:15 Dickson workers are back from lunch in the maintenance building and continuing to clean the walls and shelving with HEPA vacuums and wet wipes. The work area is periodically sprayed with water to help keep the dust down. PBS collects the IWA air sample. Workers in 166A have now completed the disposal of all stored contents in the space, PBS has documented these items. Work efforts in the area will now consist of dismantling the wood and metal cabinetry and wrapping the sections for disposal as ACM-contaminated waste.

12:30 PBS collects the OWA air sample from the maintenance building. Dickson will be continuing with cleaning horizontal surfaces for the remainder of the shift today.

13:30 Analysis of air samples collected to date do not reveal any issues at this point.

14:00 Fire alarm causes all personnel to vacate the Olympic South Building. Alarm testing was in progress by other parties who did not inform personnel associated with the abatement project that testing would occur.

14:30 PBS check doors then leaving site. Corey and MacDonald Miller still on site.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 9/3/2021



| Asbestos Contractor: Dickson PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland, Gregg Middaugh | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|---|--|-------------------|---|----------|-----------------------------|----------------------|-------------|------|
| | | | PBS Project No.: 40535.4 DES Project No.: 2021-1 | | Date: | Date: 9/7/2021 | | |
| | | | | | Page 1 of 2 | Time | 6 | am |
| Contractor on Site Persor | nnel: | | | | | | | |
| Project Manager | Yes No | Supervisor | Yes | No | Summary Phase Status: | Maintenance yard the | eater conte | nts, |
| Workers | Yes No | Name: Corey | y Foust | <u></u> | Room 166A, LV3 Prep | | | |
| How Many? +11 | | | | | Other Personnel on Site | | | |
| Air Monitoring Personnel on site: | | | MacDonald Miller, Olympic Peninsula Construction | | | | | |
| All Worldoning Personner | on site. | | | | MacDonald Miller, Olym | pic Peninsula Constr | uction | |
| WORK DESCRIPTION: Dis | pose theater conte | | | <u> </u> | and 166A. Prep LV3 and assi | | | |
| WORK DESCRIPTION: Dis | pose theater conte | | | <u> </u> | - | | | |
| WORK DESCRIPTION: Dis | pose theater conte ⁄2 face respirator, Ty | vek, vest, hard h | nat, boots | <u> </u> | - | | | |
| WORK DESCRIPTION: Dis Safe off below floor. WORKER PROTECTION: 1/2 | pose theater conte ⁄2 face respirator, Ty | vek, vest, hard h | nat, boots | <u> </u> | - | | | |

6:00 PBS on site. Dickson and MacDonald Miller are on site.

6:30 One MacDonald Miller worker will be continuing safe off in LV3 floor supply plenum. 3 Dickson workers and one supervisor setting up the new ACM dumpster in the maintenance yard.

7:00 Workers entering Maintenance building containment and checking/maintaining the 3 negative air machines and bringing over excess debris for disposal.

7:10 Workers expose mastic behind cork board on shelving in 166A. PBS collect bulk sample. All contents are being disposed of as ACM waste.

7:15 PBS notify Corey remaining ECE contents in clean room outside 168 are ok to move to final locations.

7:20 Three workers and Corey on LV3. One MacDonald Miller worker entering floor hatch from room 328. One Dickson worker at hatch for assistance if needed. Other two workers hanging poly sheeting in student lounge. Some poly sheeting has come insecure from walls/ ceiling in room 327 and 329, workers will re-secure.

7:30 3 workers in 166A removing case work. One worker in clean room assisting with load out.

8:00-8:30 MacDonald Miller, Corey and one Dickson worker move PBS trailer near for dumpster access to be swapped out.

8:25 Maintenance building waste container is full. Dickson workers are beginning to stack materials to make for easer disposal (taking them off the shelves, and out of corners). 3 workers in maintenance building containment.

9:00 Gregg M. on site. Work continues in Maintenance building, LV3 and 166A as before.

| ITEMS OF CONCERN: None | |
|---|------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| No Bulk Material | Maintenance Building |
| Asbestos contaminated materials from theater storage in | LV1, LV3 |
| Maintenance building and 166A casework | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: (Lucid T Stati

Name: Claire Tsai Date 9/7/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/7/2021 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

9:30 Dickson workers in maintenance building are staging materials for removal and clearing out space for vacuuming.

10:00 PBS walk maintenance building. IWA and OWA air samples are running.

10:20 4 Dickson workers beginning decon for lunch from maintenance building containment.

10:30 Workers take lunch. PBS walk building to check negative air machines and critical barriers. No issues to note.

11:15 Workers return to work areas in Maintenance building, 166A and LV3. MacDonald Miller in LV2 looking above ceiling for safe off.

11:35 Two Dickson workers in maintenance building vacuuming horizontal beams with HEPA vacuums, one on a lift. One supervisor bringing over supplies on a forklift.

12:00 Boom lift delivered to maintenance building.

12:30 Dickson workers at maintenance building are continuing to clean with HEPA vacuums and wet wipes.

1:30 Work in Maintenance Building, 166A LV2 and 3 continue as before.

2:30 Dickson workers off site.

2:45 PBS off site. MacDonald Miller still on site.

Signature: Claure Tsur

Name: Claire Tsai



| Asbestos Contractor: Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | | |
|--|--------------|----|-------------|---|---|----------------------|-----------------|---------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 9/ | Date: 9/8/2021 | |
| | | | | | Page 1 of 2 | Time | 06:00 | am |
| Contractor on Site Person | nel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: 0 | Clean and prep vario | ous areas noted | l below |
| Workers | Yes | No | Name: Corey | Foust | Other Personnel on Site: | | | |
| How Many? +13 | | | | | MacDonald Miller | | | |
| Air Monitoring Personnel | on site: PBS | | | | Olympic Peninsula Const | ruction | | |

WORK DESCRIPTION: Dispose theater contents from Maintenance building. Prep LV3 and assist MacDonald Miller with LV3

Safe off below floor. Assist MacDonald Miller with LV2 safe-off investigations above ceiling

WORKER PROTECTION: ½ face respirator, Tyvek, vest, hard hat, boots

METHOD OF REMOVAL: Wet wiping and HEPA vacuum contents.

OBSERVATIONS:

6:00 PBS on site. Dickson and MacDonald Miller are on site. Dickson conducts brief morning meeting and employees go to assigned areas of work for the day.

07:00 4 Workers in the maintenance building enclosure (+1 Supervisor) continue to clean surfaces through the space, 1 of those workers is cutting larger wood items into smaller sections for loading into the container when it arrives. 4 workers in 166A are finishing wrapping casework/shelving for disposal. The waste container is currently full and will be transported. 4 workers on the 3rd floor continue to poly sheeting prep throughout the space

08:30 The full container in the maintenance yard was picked-up, however: the wrong type of container has been delivered. The delivered container does not have a closable top. The container will be taken away and the correct type will be delivered.

08:00 Workers in 166A have completed loading wrapped contaminated items into the disposal container. The workers will now move to assisting MacDonald-Miller with exploratory investigations involving moving ceiling tiles to view above ceiling on LV1 and 2.

09:00 Dickson investigating potentially locating a disposal container closer to the Cascade theater storage area so as not to have to move potentially contaminated materials so far to a disposal.

09:35 The correct type of container has been delivered to the maintenance yard now. Truck hauls full container from 166A contents off site.

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

1 sink with ACM undercoat from 166A

Asbestos contaminated materials from theater storage in

Maintenance building and 166A

Cascade theater storage

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date 9/8/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:9/8/2021 |
|---|-------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

10:15 In the maintenance yard, the container is finished being lined and a drop cloth has been put in place between the indoor space and the container. 2 workers throwing away ACM materials 2 workers 1 on a lift are cleaning the storage area with HEPA vacuums and wet rags.

10:30 Dickson takes a 45-minute lunch break and resumes work.

11:20 Dickson moving remaining ECE items to the International House 103 and Cascade 520. MacDonald-Miller continues HVAC investigation throughout the 2nd floor with Dickson assisting. Workers on the 3rd floor continue with preparations. 1 MacDonald-Miller worker is in the supply plenum and will complete safe-off efforts today for mechanical items associated with the 3rd floor supply plenum.

11:30 Claire T. has discussions with MacDonald Miller and Dickson related to investigations above the 1st and 2nd floor ceilings. Care should be exercised to not break ceiling tiles and furnishings (desks) below areas being investigated should be protected by poly sheeting drops prior to work occurring above.

12:00 MacDonald Miller on roof to safe-off AHU. Area was demarcated with asbestos warning tape; employee wore proper PPE. PBS check following work did not reveal any issues.

12:15 Corey F discussing potential procedures for removal of roof AHU with PBS.

12:36 John F. advises fire systems throughout Olympic South have been approved for shut-down with out needing a fire watch person.

13:00 PBS has received results for the brown mastic associated with the corkboard located in 166A. No asbestos was found in this mastic.

13:15 Workers are shutting down the work area in the maintenance building. Work has paused so that they can pick up the residual dust on the ground with HEPA vacuums and brooms. The waste container is about 80% full

13:40 MacDonald Miller out of the 3rd floor supply plenum, the 3rd floor plenum space is now entirely safed-off.

14:15 Workers beginning final clean-up for the day and preparing to decon.

14:30 PBS and Dickson departing the site. Doors have locked and double checked.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 9/8/2021



| Asbestos Contractor: Di | ickson | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|---------------------------------------|--------------------|--|-------------------------------|----------------------|--------------|------|
| PBS Site Observer(s): Cla Stensland | aire Tsai, Mike Sn | nith, Toan Nguy | PBS Project No.: 40535.4 DES Project No.: 2021-19 | | Date: | 9/9/2021 | |
| | | | | Page 1 of 2 | Time | 6 | am |
| Contractor on Site Perso | nnel: | | | | | | |
| Project Manager | Yes | No Superviso | r Yes No | Summary Phase Status: I | Maintenance yard the | eater conter | nts, |
| Workers | Yes | No Name: Co | orey Foust | Cascade theater storage | 432, LV3 prep, | | |
| How Many? +11 | | | | Other Personnel on Site | | | |
| Air Manitaring Parsanna | l on site: | | | M. D. J.I.M. | . D L. C | 4.! | |
| Air Monitoring Personne | i on site. | | | MacDonald Miller, Olym | pic Peninsula Constr | uction | |
| <u> </u> | spose theater co | | | g and Cascade storage 432. Pr | | uction | |
| WORK DESCRIPTION: Di | spose theater co ½ face respirator | r, Tyvek, vest, ha | | | | uction | |

0600 PBS on site. Dickson and MacDonald Miller are on site.

0615 3 Dickson workers and 1 supervisor putting on PPE to enter the maintenance building. Workers are filling up the past few feet of space in the waste container and are beginning to load the remaining waste from the rear storage room into the front so that they can begin final cleaning.

0630 Dickson workers secure ECE south shed contents with banner tape inside roll door. Doors are padlocked and sealed closed with tape.

0730 Two workers cutting up and moving the remaining debris into the front room of maintenance building. Two workers wiping down surfaces with wet rags and steel wool is being used for residual material adhered to shelving.

0830 Dickson sent 3 workers over to the Theatre storage 432 in Cascade building. One worker sealing penetrations into HVAC and ceiling with duct tape. Two workers setting up decon/ criticals with poly sheeting. PBS running air sample in the area.

0845 Workers in maintenance building are all wiping down surfaces in the rear storage room. Workers in Cascade 432 started to erect critical barriers with poly-sheet.

0900 MM and Corey moving PBS trailer back in place now that dumpster is in place.

0930 Three workers in Room 323 hanging poly sheeting. One worker assisting one MM employee with access to ceiling. MM needs access above hard lid for safe off of exhaust fans to roof. MM will wait until LV3 containment is built before accessing above the ceiling.

CHANGES IN SCOPE: Room 323, 325 and 326 ceiling space are connected to the return plenum and will need to be cleaned.

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

No Bulk Material

Asbestos contaminated materials from theater storage in

Maintenance building and Cascade storage 432.

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai Date 9/9/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/9/2021 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1000 Discuss three-week schedule updates with Dickson and MM. MM is finished with LV1 safe off and LV3 sub floor supply plenum safe off.

1010 Dickson maintenance building workers are vacuuming and wiping down rack and metal support structure.

1020 Workers are decon out of work areas for lunch.

1030 Corey notifies PBS Room 323, 325, and 326 classroom ceiling space does connect to LV3 return plenum. PBS confirms, Ceiling space above 323, 325 and 326 is open to the return plenum and will need to be cleaned. Workers take lunch.

1100 Todd L on site. PBS, Dickson, and MM walk third floor mechanical room and discuss options to protect active transformer and electrical panels during abatement.

1115 Dickson back from lunch and is detailing their Cascade 432 enclosure with more tape and spray glue.

1146 One worker unload delivery with forklift.

1200 3 Dickson workers in maintenance building using wet rags to wipe down the walls, beams and racks. They are switching to new wet rags periodically and have HEPA vacuums near them for bulk cleaning prior to wiping

1220 Dickson is vacuuming the floor of the theatre storage room 432. 1 Dickson worker brought a 12ft ladder into the enclosure in order to patch the remaining wall and ceiling penetrations as well as duct vents.

1225 Four workers on level 3 laying poly sheeting on floors. Working in 337 and 336.

1300 Dickson lay poly-sheeting on floor of 432 and began bagging contents into ACM waste bags. PBS in area to document items prior to disposal.

1330 PBS walk roof. Poly sheeting on roof hoof above student lounge has holes. Four workers on level 3 continue laying sticky poly sheeting on floor. Currently working in 322.

1345 PBS notify Corey poly sheeting needs to be patched on roof hood above student lounge. And piping into air handler unit on roof should be sealed. Corey redirect one worker from LV3 to roof to cover roof hood with another layer of poly and seal cut pipes on roof unit.

1345 Dickson workers continuing to wipe down various surfaces in the maintenance building. PBS collects IWA and OWA air samples.

1400 Weekly construction meeting with project team.

1430 Workers decon out of work areas for the day and leave site.

1500 PBS check doors and leave site. Corey still on site will shut off generator and lock fence.

The individual signing certifies that the above Signature: Www. Signature: Warre: Date 9/9/2021



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|--|----------|----|---|---|---|---|---------------------|--------------|------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: | Date: 9/10/2021 | | | |
| | | | | | | Page 1 of 2 | Time | 6 | am |
| Contractor on Site Perso | nnel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: | Maintenance yard th | eater conter | nts, |
| Workers | Yes | No | Name: Corey Foust | | Cascade theater storage 432, LV3 prep, LV2 safe off | | | | |
| How Many? +12 | | | | | | Other Personnel on Site | | | |
| Air Monitoring Personne | on site: | | | | | MacDonald Miller (MM), Olympic Peninsula Construction (OPC) | | | |
| | | | | | | | | | |

WORK DESCRIPTION: Dispose theater contents from Maintenance building and Cascade storage 432. Prep LV3. Assist MacDonald Miller with LV2

Mechanical Mezzanine safe off.

WORKER PROTECTION: ½ face respirator, Tyvek, vest, hard hat, boots

METHOD OF REMOVAL: Wet wiping and HEPA vacuum

OBSERVATIONS:

0600 PBS on site. Dickson and MacDonald Miller are on site. Dickson workers are having their morning meeting to discuss the scope of work for the day. MM point out ground level door opening with mini encloser did not get covered last night, another door closed but no lock

0620 Three workers in Cascade 432 work area. Workers add wall of poly sheeting to separate clean room and a load out area.

0630 Three workers and one supervisor are at the Maintenance yard. Le May swapping out ACM dumpster and replacing it with a new one. Workers double line the inside of the dumpster and move it into position.

0700 Two workers in Maintenance building are removing contents and placing them in the lined dumpster. One worker is on a lift wiping down the ceiling in the back of the storage area. A few cushions remaining in storage area, most items have been loaded out.

0730 One worker from Cascade 432 leaving site for the day. Two workers remaining are inside containment bagging contaminated contents and vacuuming the outside of the bags. PBS in area photos documenting items prior to disposal.

0800 Workers in Maintenance building continue as before.

0845 Bulk removal of contents in maintenance building complete.

0900 Two workers in Cascade 432 continue to bag contents into ACM waste bags.

| ITEMS OF CONCERN: None | |
|--|-----------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| No Bulk Material, Asbestos contaminated materials from theater storage | Maintenance building, Cascade 432 |
| In Maintenance building and Cascade 432. | LV3. LV2 Mechanical Mezzanine |
| Asbestos contaminated pipe insulation from LV2 Mechanical Mezzanine | |
| | <i></i> |

The individual signing certifies that the above information is correct and accurate.

Signature: Uluu Tssui

Name: Claire Tsai

Date 9/10/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/10/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0930 Workers stacking waste bags in Cascade 432 containment for now until receiving approval from college to place waste trailer near Cascade building.

0942 Four workers on LV3 continue to prep containment, workers laying poly sheeting on floor.

1000 Workers in maintenance building wet wiping and HEPA vacuuming building and components.

1030 Workers break for lunch. John communicating with college for approval to place waste trailer near Cascade for disposal of theater storage 432 contents. Crane activity planned for 15th, still need confirmation of container from Le May that will fit the roof AHU.

1115 Two Dickson workers and one MM worker in LV2 mechanical mezzanine. Dickson workers stripping asbestos contaminated non-ACM pipe insulation so MM can perform safe off.

1130 Three workers in maintenance building continue cleaning surfaces along walls and metal racks.

1200 Cascade 432 two workers are bagging up contents, wetting down the inside of the bag, vacuuming out the excess air with a HEPA vacuums and then sealing the neck of the bag shut with duct tape. PBS continue photo documenting contents prior to disposal.

1210 PBS walk roof, items pointed out 9/9 have been taken care of.

1245 Chris loading out waste bags from LV2 mechanical mezzanine into container near Olympic South level 1 entry.

1320 Le May on site to drop of container liners. Brian with MM will continue with safe off Monday in LV2 Mechanical Mezzanine.

1320 Two workers from Cascade 432 decon out to get supplies to bag up the larger furniture.

1330 Three workers in Maintenance building continue wet wiping and HEPA vacuuming surfaces. PBS stop OWA sample.

1400 Workers return to Cascade 432 with mega bags for removal of larger contents (furniture).

1415 Worker decon out of work areas for the day.

1420 Dickson workers at end of day meeting. No safety issues of the day to discuss. Corey will be off site next week, Chris will be filling in.

1430 Dickson workers leaving site.

1445 MM leaving site.

1500 PBS check doors and leave site. Corey still on site will shut off generator.

Signature: Will Table

Name: Claire Tsai Date 9/10/2021



| | | Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|-----|------------------------------|-------------|------|---|---|----------------------|-----------------|-------|--|
| PBS Site Observer(s): Claire Tsai, Toan Nguyen, Peter Stensland | | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 9 | Date: 9/13/2021 | | |
| | | | | | | Page 1 of 2 | Time | 6 | am | |
| Contractor on Site Personnel: | | | | | | • | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: | Maintenance building | g final clean, | | |
| Workers | Yes | No | Name: Chris | Drea | | Cascade theater storage | 432 contents dispos | al, LV3 prep, | | |
| How Many? +11 | | | | | | Other Personnel on Site | | | | |
| Air Monitoring Personnel on site: | | | | | | MacDonald Miller (MM) | Olympic Peninsula (| Construction | (OPC) | |

WORK DESCRIPTION: Surface clean Maintenance building. Dispose theater contents from Cascade storage 432. Prep LV3.

WORKER PROTECTION: 1/2 face respirator, Tyvek, vest, hard hat, boots

METHOD OF REMOVAL: manual, Wet wiping and HEPA vacuum

OBSERVATIONS:

6:00 Dickson workers are having their morning meeting discussions the scope of work for the day and going over general site information.

0630 PBS set-up HEPA exhaust and OWA sample samples for Cascade 432 containment. Maintenance building three workers sealing up waste trailer for Le May pick up. PBS sets up IWA and OWA air samples for Maintenance building work area. One lift brought in to work area through roll up door. The workers then reestablish the negative air exhausts within a new poly wall at the base of the exhaust garage door. Fence with visual barrier remains in place.

0700 Three workers in Cascade 432 work area. One worker with fall protection in order to load out sealed bags with contents to the forklift with bin on the roof. The other two workers are moving waste bags to the load out room as well as bagging contents.

0800 Dickson has a forklift with a bin attached that reaches the roof area for waste load out for Cascade 432 work area. Olympic South LV3 two workers tape ram board to the floor in high traffic areas. PBS start LV3 ambient sample and a roof HEPA exhaust sample.

0830 Two workers organizing and inventory supplies from connexs in parking Lot A.

0900 Workers in Cascade 432 take apart wooden furniture with saw and drill and then wrap items in mega bags for disposal.

0915 Dickson fuel truck on site filling generator then leaving site.

| ITEMS OF CONCERN: None | |
|---|-----------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| No Bulk Material, | Maintenance building, Cascade 432 |
| Asbestos contaminated materials from theater storage Cascade 432. | LV3. |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai

Name: Claire Tsai

Date 9/13/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/13/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0950 4 workers continue containment prep on Level 3. Workers hanging poly sheeting over walls and place ram board in high traffics areas on floor. PBS walk roof, all negative air machines running. PBS HEPA exhaust sample still running.

1000 Two MM workers in LV1 Mechanical room.

1010 Waste trailer in place near Cascade loading dock. Chris and two workers in area. One worker on forklift opening container lid. John with MM in area.

1020 Three workers in maintenance building cleaning building surfaces and components.

1030 Workers break for lunch.

1100 Todd L on site.

1115 Workers return from lunch. Dickson safety meeting near job trailers.

1120 Chris D, Todd L, and John discuss crane operation to lift AHUs off the roof.

1130-45 Chris, Todd, and MM employees meet with Dan T and IT/ Pierce HVAC staff. Walk mechanical Room 173.

1145-1215 Dickson and MM discuss crane operations for the 15th.

1230 Two workers inside Cascade 432 containment bagging contents. Workers seal and wipe down bags before loading out bags from Cascade 432. Two workers on ground, one operating forklift with tip bin, one directing. One worker on roof loading bags into bin then lowered to lined dumpster near Cascade loading dock.

1250 Worker lifts bin up to cascade roof. One worker on ground one worker with fall protection on roof.

1300 PBS collect IWA and OWA samples from maintenance building. Three workers in maintenance building. One worker wet wiping internal roll up garage door, two workers in back room wet wiping and HEPA vacuuming surfaces and components.

1340 MM ask about removal of large roof hoods. PBS walk roof with Daryl (MM). PBS communicate all roof HVAC components are considered contaminated and need to be removed properly. MM will communicate with Todd L at Dickson to coordinate removal if crane is needed or if they can be lowered with a forklift.

1400 Four workers continue laying ram board on floor and poly sheeting on walls of LV3.

1415 Dickson workers decon out and meet at job trailer for end of day meeting. No safety issues from today.

1430 Dickson and MM off site. MM shut off generator. PBS collect remaining air samples.

1515 PBS check doors and lock parking lot gate before leaving site.

Signature: Will Table

Name: Claire Tsai

Date 9/13/2021



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|--|-------------------------|----|---|---|---|-------------|------|------|----|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 9/14/2021 | | | | |
| | | | | | Page 1 of | 2 | Time | 6:00 | am |
| Contractor on Site Perso | nnel: | | | _ | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: Clean Maintenance Building, | | | | |
| Workers | Yes No Name: Chris Drea | | | | Cascade theater storage 432 contents, LV3 prep, | | | | |
| How Many? +13 | | | | _ | Other Persor | nel on Site | | | |
| Air Monitoring Personnel on site: PBS and Dickson | | | MacDonald Miller (MM), Olympic Peninsula Construction (OPC) | | | | | | |

WORK DESCRIPTION: Clean Maintenance Building and dispose of Cascade Storage 432 contents. Continue to prep LV3. WORKER PROTECTION: 1/2 face respirator, Tyvek, vest, hard hat, boots METHOD OF REMOVAL: manual, wet wiping, and HEPA vacuuming

OBSERVATIONS:

0600 Dickson workers are having their morning meeting discussing scope of work for the day and going over general site information. Workers go to assigned tasks for the day

0630 Dickson workers are at assigned work areas. 2 are on the roof cleaning and prepping for the crane lift of the AHU unit tomorrow. 3 workers in Cascade 432 work area. The workers are using hand tools to dismantle or break down potential asbestos-contaminated shelving and similar items in the space. PBS air monitoring the Cascade 432 currently with air sampling being collected within the work area and at the negative air exhaust. 3 workers continue to clean surfaces in the maintenance building work area. PBS air monitoring in the maintenance building work area includes: inside work area, outside of work area, and at the negative air exhaust. 3 workers are on the 3rd floor continuing with poly sheeting applications and applying protective cardboard (Ramboard) to flooring areas below hard lid ceilings that will be demolished.

0800 Work efforts continue as noted.

0930 Two MM workers in Rooms 320 and 321 working on setting up temporary power. Workers in the Cascade 432 area are closing labeled disposal bags, wet wiping them, and staging them for loading out following lunch.

0950 4 workers continue containment prep on Level 3. Workers hanging poly sheeting over walls and place ram board in areas on floor below ceiling hard lid demo locations. MM (Eugenio) notifies PBS 3rd floor electrical conduit runs from ceiling space and opens into back of electrical panel. PBS will oversee Eugenio collect surface dust sample from electrical

ITEMS OF CONCERN: None **CHANGES IN SCOPE: None** QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: **BUILDING/AREA/LOCATION** Completion of removing contaminated materials from Cascade 432. Maintenance building, Cascade 432 LV3. LV2 Mechanical Mezzanine

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date 9/14/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/14/2021 |
|---|---|-----------------|
| Abatement Contractor: Dickson | PBS Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland | Page 2 of 2 |
| WORK DESCRIPTION: See page 1 above | | |
| OBSERVATIONS: | | |

1030 Workers take a 45-minute lunch and resume work efforts.

1130 MM (Eugenio) collect microvac sample from base of electrical panel in the 3rd floor mechanical room. PBS is directing and observing sampling but is not permitted to touch the inside of the electric because of the temporary power connections and other electric hazards. 1 Dickson worker is now assisting OPC with moving their construction trailer to make room for the crane tomorrow. Everybody on the job site will need to attend a safety meeting tomorrow focused on being around a crane operation in progress.

1215 1 PBS worker departs the site for delivery of microvac samples to Lab/Cor Seattle.

1230 One worker operating forklift load out contents from CAS 432 into forklift bin on roof then dump into lined dumpster. Lined dumpster lid closed in between loads. Chris communicates, all CAS 432 contents should be loaded out by the end of the day. MM escorted by Dickson are exploring the 2nd and 1st floors for potential pathways to route temporary power from the 3rd floor.

1300 All furniture/contents has been removed from the Cascade 432 work area. The room was thoroughly sprayed down with water and the workers are sweeping up the remaining debris from the ground. Workers change the prefilter on the negative air machine.

1350 Waste trailer for Cascade 432 closed for end of day. All contents have been loaded out. LeMay scheduled to pick up tomorrow. PBS collect remaining air samples for the day.

1420 Workers at job trailer for end of day meeting.

1430 Dickson workers leave site.

1445-1500 PBS, Dickson and MM walk to check doors. MM shut off generator and lock gate. Everyone off site.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 9/14/2021



| Asbestos Contractor: Di | ckson | | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|----------|----|-----------------------|------|--|-----------------------|--------------|--------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland, Gregg Middaugh | | | | | PBS Project No.: 40535. DES Project No.: 2021-1 | Date: 9/15/20 | | |
| | | | | | Page 1 of 2 | Time | 6 | am |
| Contractor on Site Person | nnel: | | | | | | | |
| Project Manager | Yes | No | Supervisor Yes | . No | Summary Phase Status: | Clean Maintenance B | Building and | |
| Workers | Yes | No | Name: Chris Drea | | Cascade theater storage | e 432, LV3 prep, remo | ove AHUs fro | m roof |
| How Many? +13 | | | | | Other Personnel on Site | ! | | |
| Air Monitoring Personne | on site: | | | | MacDonald Miller (MM) | , Olympic Peninsula (| Construction | (OPC) |

WORK DESCRIPTION: Clean Maintenance Building and Cascade Storage 432. Continue to prep LV3. Remove AHU units from roof

WORKER PROTECTION: ½ face respirator, Tyvek, vest, hard hat, boots

METHOD OF REMOVAL: manual, wet wiping, and HEPA vacuuming

OBSERVATIONS:

0600 Dickson workers are having their morning safety meeting, PBS attends meeting. Discussions also include the scope of work for the day and going over general site information. Workers go to assigned tasks.

0630 6 workers are on the roof disconnecting the negative air machines from the AHU scheduled for removal this morning. 3 workers are in the maintenance yard storage continuing with wet wiping surfaces. Dickson is anticipating being ready for a PBS visual inspection in this area tomorrow at some point. 2 workers are in the Cascade 432 storage area wiping down surfaces. PBS set up ambient air samples to run all day on all elevations and roof of Olympic South Building during removal of AHUs.

0750 The crane arrives to the job site and will be staged between the Olympic South Building and the Cascade Building. 0800 PBS rep Gregg Middaugh is on site.

0830 All personnel on site including OPC attend a site-specific crane safety meeting. All personnel in and on the Olympic South Building have been evacuated with the exception of workers associated with removing the small and large AHU from the roof.

0900 PBS on roof of Olympic North Building observing removal of units. The small and large AHU scheduled for removal have been demarcated with asbestos danger tape. Dickson has 4 workers and a superintendent at the location of the smaller AHU unit, this will be removed first. The negative air machines have been disconnected from the AHU units that will be removed. Two MM employees on roof for rigging and assistance of disconnecting units from roof.

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Small and Large AHU units removed from Olympic South roof

LV3. LV2 Mechanical Mezzanine

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date 9/15/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/15/2021 | | |
|---|-------------------------|-----------------|--|--|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 | | |
| | | | | |
| WORK DESCRIPTION: See page 1 above | | | | |
| | | | | |
| OBSERVATIONS: | | | | |

1000 The small AHU is slightly suspended by the crane. Dickson workers are applying a double layer of poly sheeting on the AHU and a single layer of poly sheeting on the opening of the roof. PBS checks the Cascade 432 space at the supervisor's request. Excessive dust was still identified on horizontal surfaces and the area is not ready for a final clean inspection.

1030 The smaller AHU has been lowered to ground level. Small unit moved with forklift to fenced parking lot for storage until Le May drops off waste trailer. The metal roof cap has been lifted and placed on the roof location of the AHU. Dickson is reattaching the negative air machines to the custom roof cap. The large AHU unit is now being rigged similar to the smaller unit. Dickson crews working in Cascade 432 and the Maintenance Bldg. storage are going to lunch.

1100 The larger AHU Unit has been suspended and prepped for lowering in the same manner as the smaller unit.

1115 The larger AHU is lowered from the roof and placed on a flatbed trailer. This AHU will be wrapped and labeled and taken to Murray's Disposal Co.'s fenced, secured yard until further disposition is determined.

1130 The Dickson workers who previously went to lunch, have returned and traded out with the workers involved in the roof activities so that they may now take their lunch break.

1200 The truck with the larger AHU departs the site. The AHU has been wrapped and labeled.

1230 The crane is being prepped to be removed from the site.

1300 PBS receives lab data report. Dust sample collected from electrical panel in Room 320 came back above project established threshold of 1,000 struc/cm2. PBS communicate with MM about assistance needed to sample representative electrical panels from LV3 and LV1. MM with assist PBS with sampling tomorrow.

1330 Workers continue to clean the Cascade 432 space and the maintenance yard storage space. Dickson anticipates being ready for an inspection tomorrow in both areas.

1420 Workers at job trailer for end of day meeting.

1430 Dickson workers leave site.

1500 MM shut off generator, MM workers leave site. Small air handling unit is wrapped sealed and labeled. Unit will be stored in secure fence area in parking lot until dumpster is delivered tomorrow.

1530 PBS check doors and lock gate. PBS departs site including Gregg Middaugh.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 9/15/2021



| | | | • | | | | | |
|--|----------------------------|---------------|---------------------------|-----------------|------------------|---|---------------|------------------------|
| Asbestos Contractor: Dic | | | | | | Project Name: Olympic South A | Abatement & F | Repairs |
| PBS Site Observer(s): Clair Stensland | re Tsai, Mike S | mith, | Toan Nguyen | Peter | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 9/16/2021 |
| | | | | | | Page 1 of 2 | Time | 6 am |
| Contractor on Site Person | nel: | | | | | | | D. II.II. L. CAC |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: Final cl 432, Prep LV3 | ean Maintenar | ice Building and CAS |
| Workers | Yes | No | Name: Chri | 5 Drea | | Other Personnel on Site: | | |
| How Many? +11 | | | | | | MacDonald Miller (MM) | | _ |
| Air Monitoring Personnel | on site: | | | | | Olympic Peninsula Construction | n | |
| WORK DESCRIPTION: Clea | an Maintenanc | e Bui | lding and Caso | ade Sto | orage 432 | 2. Continue to prep LV3. Remove A | HU units from | roof |
| WORKER PROTECTION: 1/2 | face respirato | or, Tyv | ek, vest, hard | hat, boo | ots | | | |
| METHOD OF REMOVAL: n | nanual, wet wi | ping, | and HEPA vac | uuming | | | | |
| OBSERVATIONS: | | | | | | | | |
| | ne maintena | nce | building, d | oing a | final to | ouch up clean. The excess cl | eaning mate | erials were loaded |
| | | | _ | _ | | in poly on a pallet and clea | _ | |
| - | | | | • | | | | |
| • | _ | | • | | | building for storage until c | | |
| | | | rker shows | up wit | h buck | et of water for Hudson spra | yer. Cascado | e 432 workers |
| performing final clean | of work are | a. | | | | | | |
| | | | • | | | ing off the water in the bath ne electrical room 320. | ıroom. Dick | son is continuing to |
| 0700 PBS run air samp | les for Casc | ade 4 | 432 work aı | ea. Fo | ur wor | kers in CAS 432 containmen | t performin | g final clean of area. |
| PBS collecting samples components with poly. | , Eugenio sı PBS visual | uper ly in | vising to m spect main | ake su tenan | re pan ce bui | ectrical panels in 320 and 32 el is safe. Three workers on l ding work area. Visual insp continue to clean area. | LV3 covering | g fire system |
| | • | | | • | | op to bottom. Workers wet v ar storage room. Work cont | • | |
| 1030 Workers take lun | ch. | | | | | | | |
| 1115 Workers return fr | om lunch. F | BS s | ample last | electri. | cal pan | el in Mechanical room 173. | Two MM w | orkers in area will |
| | | | • | | • | loyees notified that there is | | |
| ITEMS OF CONCERN: Nor | ne | | | | | | | |
| CHANGES IN SCOPE: Non | e | | | | | | | |
| QUANTITY AND TYPE ACM | M REMOVED T | HIS S | HIFT/ PHASE: | | | BUILDING/AREA/LOCATION | | |
| None | | | , | | | Maintenance Building | | |
| - | | | | | | Cascade 432 | | |
| | | | | | | LV3 | | |
| | | | | | I | _ | | |
| | | | | | | Plant | | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai Date 9/16/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/16/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

contaminated dust to be inside the panel. Workers will exercise caution to minimally disturbed the dust. PBS running air sample in area.

1120 Daryl (MM) and one worker in LV2 mechanical mezzanine to finish disconnecting hydronic piping to air handler units.

1130 Three Dickson workers fixing poly sheeting on the 3rd floor. PBS starts an ambient air sample on LV3.

1200 Three week look ahead meeting with Dickson and MM.

1220-1340 PBS walk third floor with Todd L and Chris and MM. Three workers continue preping walls with poly sheeting. Dickson will remove doors label with room number and store in connex for duration of abatement.

1345 MM electrician will be on site 5:45 to shut off power to transformer in level one mechanical room 173 for PBS to collect a microvac sample. Dickson will put the fire system in test for the day. Waste container previously dropped near cascade loading dock is being moved to fenced area in parking lot. Dickson will put small air handling unit in dumpster.

1400 Weekly construction meeting with project team.

1430 Dickson workers leave site for the day.

1500 PBS check doors and leave site. MM shut off generator and leave site. Small air handling unit has been moved to lined dumpster.

Signature: Clavie Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai

Date 9/16/2021



| | ckson | | | | Project Name: Olympic : | South Abatement & R | Repairs | |
|---|-------------------|---------|------------------|---------------|---|-----------------------|----------------|----------|
| PBS Site Observer(s): Cla Stensland | ire Tsai, Mike Sr | mith, | Toan Nguyen, | Peter | PBS Project No.: 40535.4 DES Project No.: 2021-1 | | Date: 9, | /17/2021 |
| | | | | _ | Page 1 of 2 | Time | 6:00 | am |
| Contractor on Site Persor | nnel: | | | _ | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | Inspect Maintenance | Building and | |
| Workers | Yes | No | Name: Chris | Drea | Cascade theater storage | e 432, LV3 prep | | |
| How Many? +12 | | | | | Other Personnel on Site | | | |
| Air Monitoring Personne | on site: | | | _ | MacDonald Miller (MM) | , Olympic Peninsula C | Construction (| (OPC) |
| WORKER PROTECTION: 1 | ⁄₂ face respirato | r, Tyv | ek, vest, hard h | nat, boots | | | | |
| WORKER PROTECTION: 1 | ⁄₂ face respirato | r, Tyv | ek, vest, hard h | nat, boots | | | | |
| | | | | | | | | |
| | | | | | | | | |
| WORKER PROTECTION: 1 METHOD OF REMOVAL: OBSERVATIONS: | | | | | | | | |
| METHOD OF REMOVAL: OBSERVATIONS: | manual, wet wip | oing, a | and HEPA vacu | uming | ssions include the sco | pe of work for the | e day and o | going ov |
| METHOD OF REMOVAL: OBSERVATIONS: | manual, wet wip | oing, a | and HEPA vacu | eeting, discu | ssions include the scop | pe of work for the | e day and (| going ov |

0800 PBS inspects the maintenance building storage area as requested by Dickson.

0930 PBS completes the inspection of the maintenance storage area; some areas needed some additional attention – these areas were corrected as PBS identified them. PBS passes the inspection and will now microvac sample surfaces. Small, cleaned bagged items will be transported to a storage Conex for later sampling. Following contractor encapsulation, PBS will aggressively collect TEM clearance samples in the spaces. Clearance air sampling may occur Monday morning.

1030 Dickson workers break for lunch and resume work efforts. The workers from the maintenance building move to the 3rd floor prep area. Dickson has requested a clearance inspection following their lunch in Cascade 432.

1115 PBS inspects Cascade 432 at Dickson's request. After some touch-up of a few spots, the area is passed. PBS is also collecting microvac surface samples in the maintenance building at this time. Microvac sampling in Cascade 432 will also include the return and supply ducting from the work area.

| ITEMS OF CONCERN: None | |
|--|--|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| No abatement this shift | Maintenance building, Cascade 432, Olympic S - Level 3 |
| | |
| | |
| | |

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date 9/17/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/17/2021 |
|---|-------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1230 PBS will also now microvac surface samples in Cascade 432 which will be then followed by contractor encapsulation. Workers from this area will also move to the prep of the Olympic S LV3. Following contractor encapsulation, PBS will aggressively collect TEM clearance samples in the spaces. Clearance air sampling will occur Monday morning.

1330 PBS walks the LV3 work area. The area is nearly prepped to begin abatement on this level. Dickson needs to finish loading out doors, sealing some floor areas better, and some other smaller items prior to starting abatement. Dickson has completed encapsulation of the maintenance yard space and will now encapsulate Cascade 432.

1415 Dickson has completed the encapsulation of the Cascade 432 space.

1420 Workers at job trailer for end of day meeting.

1430 Dickson workers leave site.

1500 MM shut off generator, MM workers leave site. PBS check doors and lock gate. PBS departs site. Air clearance samples for Maintenance Building and Cascade 432 will be collected Monday morning.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 9/17/2021



| Asbestos Contractor: Die | ckson | | | | Project N | lame: Olympic | South Abatement & R | epairs | |
|---|------------------|---------|-----------------------|-----------|-----------|----------------------------------|---|------------|------------|
| PBS Site Observer(s): Cla | ire Tsai, Toan N | Nguye | n, Peter Stensland | | | ect No.: 40535 ect No.: 2021- | | Date: | 9/20/2021 |
| | | | | | Page 1 | of 2 | Time | 6 | am |
| Contractor on Site Persor | nnel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor Yes | NIA | , | | : PBS Air clearances in N and Mech 173 | Maintenand | e Building |
| Workers | Yes | No | Name: Corey Foust | | Other Pe | rsonnel on Sit | e: | | |
| How Many? +12 | | | | | MacDona | ald Miller (MM | 1) | | |
| Air Monitoring Personnel | on site: | | | | Olympic | Peninsula Cor | nstruction (OPC) | | |
| WORKER PROTECTION: H | | , vest, | | | | | | | |
| METHOD OF REMOVAL. | N/A | | | | | | | | |
| OBSERVATIONS: | | | | | | | | | |
| 0600 PBS on site. Dick | son and MN | ∕l are | on site. Workers ar | e on LV | 3 and I | Mechanical | 173 preping space | for abat | ement. |
| PBS email college for a n Cascade 432. Two w | • • | • | | | | • | p equipment for a | ir clearan | ce samples |
| 0700 Daryl (MM) will b | e working o | on fir | st floor, Dickson wo | orker wil | l be ava | ilable to as | sist. | | |
| | | | | | | | | | |

0715 One worker enter CAS 432 to wrap cart and load out box of rags, HEPA vacuum and some water pumps.

0725 PBS run aggressive TEM air clearance samples for CAS 432 work area.

0745 3 Dickson workers disassembling the wooden shelving in the first floor mechanical room and loading it out to a dumpster by the conexs. Two workers from the reclad project removing the door frame to the mechanical room.

0800 Two Dickson workers inside the Level 1 containment changing filters on negative air machines and checking on critical barriers and resecuring as needed. One of the workers ready to assist MM in Level 1 containment as needed.

0830 6 Dickson workers on the 3rd floor. One fixing poly. Two replacing filters on negative air machines. 3 in the men's restroom removing fixtures and one MM plumber.

0900 Five workers on LV3 hanging extension cords, removing general debris, and restroom partitions. Plumbing fixtures from 338A have been removed by MM plumber. Will be stored in connex for now.

Daryl enter LV1 one worker in containment ready to assist MM.

| ITEMS OF CONCERN: None | |
|--|------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| | |
| None | Olympic South1/2/3 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Clavice Tsai Name: Claire Tsai

Date 9/20/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/20/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0910 PBS collect clearance samples from CAS 432.

1015 PBS setting up equipment in Maintenance building for aggressive TEM air clearances.

1200 Dickson fuel truck is here to fill generators then leaving site.

1220 One operator and one spotter take forklift bin of contents from level 3 and mechanical room 173 to lined dumpster in parking lot. 6 workers on LV3 continue prep, hanging poly walls and floors, removing poly ceiling in room 325. Three workers in Mech 173 hanging poly sheeting on walls. Two brown shelves requested by college to keep stored in connex 3.

1415 workers at trailer for end of day meeting.

1430 Workers off site.

1430-1500 PBS walk LV3 with Corey to check containment. Plumbing fixtures and light fixtures in 338A need additional poly sheeting as protection during abatement.

1545 Dickson shut off generator and leave site.

1600 PBS check doors and leave site.

Signature: Clavice Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai Date 9/20/2021



| | | • | | | | | |
|--|--------------------|--|---------------|---------------------------|----------------------|-------------|-------------|
| Asbestos Contractor: Dicks | on | | | Project Name: Olympic S | South Abatement & R | epairs | |
| PBS Site Observer(s): Claire Middaugh | Tsai, Toan Nguy | Nguyen, Peter Stensland, Gregg PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 9 | /21/2021 | | |
| | | | | Page 1 of 2 | Time | 6:00 | am |
| Contractor on Site Personne | el: | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status: S | Start abatement on L | V 3 | |
| Workers | Yes No | Name: Corey | / Foust | Other Personnel on Site: | | | |
| How Many? +17 | | | | MacDonald Miller (MM) | | | |
| Air Monitoring Personnel on | n site: | | | Olympic Peninsula Cons | truction (OPC) | | |
| WORK DESCRIPTION: Remov | | | | ontaminated return pienum | • | | |
| WORKER PROTECTION: 1/2 fa | ace respirator, Ty | vek, hard hat, bo | oots | | | | |
| METHOD OF REMOVAL: Ma | nual | | | | | | |
| OBSERVATIONS: 0600 PBS on site. Dickso 0645 Two Dickson worke | J | J | 5 5 | • | • | g. | |
| 0745 PBS and Macdonald with painters' tape to en | | | • | | server room 321 | . The ends | s are taped |
| 0805 PBS has visually ins | • | | • | | to begin. The fixt | ures in the | e women's |
| 0815 IWA and OWA air s | samples are s | tarted for the | 3rd floor Ol | ympic South. | | | |
| 0850 One worker drills ½ Olympic North level thre North. | | | | | • | • | |
| 0920 Discuss electrical paramastic located behind m | | | | | | • | of tan |

1030 Workers decon out of area for lunch.

1115 Worker return to work on LV3.

| ITEMS OF CONCERN: None | | |
|---|------------------------|--|
| | | |
| CHANGES IN SCOPE: None | | |
| | | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION | |
| Asbestos contaminated building materials | Olympic South LV3 | |
| (ceiling tiles/insulation/wallboard) Approximately 200 bags | | |
| · | | |
| | | |

The individual signing certifies that the above information is correct and accurate.

Signature: Clavice Tsai Name: Claire Tsai

Date 9/21/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/21/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

12:40 13 Dickson workers removing ceiling tiles and suspended grid. Approximately 85% of the ceiling tiles have been removed and approximately 35% of the metal lay in ceiling structure have been removed and bagged. Approximately 200 waste bags on LV3.

1241 PBS discuss conduit to sample with MM employee in Mechanical 173. Two workers setting up plywood framing for poly sheeting entrance to fire panel. One worker from reclassified project MM worker marks blank conduits from panels that have testers positive.

2:30 Workers off site after end of day meeting.

2:45 MM off site.

15:30 PBS check doors then leave site. Corey shut off generator and leaving site.

Signature: Ulliu Tsui
Name: Claire Tsai



| Asbestos Contractor: Dickson | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|--|--|--|----------------------|-----------------|----|
| PBS Site Observer(s): Claire Tsai, Toan Nguyen, Peter Stensland, Gregg Middaugh. | | , | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 9/22/2021 | |
| | | | Page 1 of 2 | Time | 6:00 | am |
| Contractor on Site Persor | nnel: | | | | | |
| Project Manager | Yes No | Supervisor Yes N | Summary Phase Status: L | _V3 abatement | | |
| Workers | Yes No | Name: Corey Foust | Other Personnel on Site: | | | |
| How Many? +13 | | | MacDonald Miller (MM) | | | |
| Air Monitoring Personnel | l on site: | | Olympic Peninsula Construction (OPC) | | | |
| WORK DESCRIPTION: Wo | orkers remove wallbo | oard, wall insulation, ceiling | grid, sub floor duct work – Olyn | npic South, Level 3. | | |
| | | | | npic South, Level 3. | | |
| WORK DESCRIPTION: WORKER PROTECTION:1, | | | | npic South, Level 3. | | |
| WORKER PROTECTION:1, | /2 face respirator, Ty | yvek, boots, hard hat | grid, sub floor duct work – Olyn | npic South, Level 3. | | |
| WORKER PROTECTION:1, | /2 face respirator, Ty | | grid, sub floor duct work – Olyn | npic South, Level 3. | | |
| WORKER PROTECTION:1, METHOD OF REMOVAL: | /2 face respirator, Ty | yvek, boots, hard hat | grid, sub floor duct work – Olyn | npic South, Level 3. | | |
| WORKER PROTECTION:1, METHOD OF REMOVAL: OBSERVATIONS: | /2 face respirator, Ty Removal of wallboar | yvek, boots, hard hat rd and ceiling grid manual | grid, sub floor duct work – Olyn | | day. | |
| WORKER PROTECTION:1, METHOD OF REMOVAL: OBSERVATIONS: 500 PBS on site. Dick | /2 face respirator, Ty Removal of wallboar son workers hav | yvek, boots, hard hat rd and ceiling grid manual ving their morning me | grid, sub floor duct work – Olyn | e of work for the | • | |

established at the doorway to allow for access to the fire panel. No work has begun in this room just prep of containment.

0630 MM notify PBS and Dickson not to use scaffolding around Olympic South until it has been inspected and certified.

0730 Level 3 containment 12 Dickson workers and 2 MM workers. Dickson workers are beginning to remove walls and fiberglass insulation with Sawzall. Metal frame ceiling grids are still being demoed in one room. No ceiling tile remains. The negative air machines are pulling air into the space critical barriers to stairwell and Olympic north level 3 have strong negative pressure, poly is being pulled toward containment.

0900 10 Dickson workers removing the one remaining metal ceiling grid and cutting open the walls on level 3. The walls were cut open with a Sawzall and attached HEPA vacuum. The surfaces were periodically sprayed down with water before being removed in large chunks with a breaker bar, wetted again and bagged. Visible dust was present in the air (seen with a flashlight) throughout the space likely due to the wall demo and fiberglass insulation removal air was moving in the direction of negative air machines.

0915 Two MM employees and one Dickson worker in Mech room 173 to sample breaker and conduit from electrical panels.

1000 Cut section of pipe and cables from conduits to Rm 173. Dickson hold pipe cutter, MM employee hold HEPA vacuum next to area being cut. Once conduit is cut both sides tapped closed and next cut is made with same process.

| ITEMS OF CONCERN: None | |
|---|------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| No bulk material | |
| Asbestos contaminated, wallboard, wall insulation, ceiling grid | Olympic South Level 3 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Clavice Tsai Date 9/22/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/22/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1121 One MM employee load up caps to roof hoods and exhaust fans. Removal of roof exhaust fans and roof hoods scheduled for tomorrow.

1130 Two MM employees assist PBS collecting microvac samples from conduit and electrical boxes in walls of LV1 and 2. One Dickson worker assisting as needed.

1300 Level 3 containment 10 Dickson workers, three inside the sub floor space removing ducting. 7 workers removing wall sections with hack saws to cut the walls into sections, a HEPA vacuum is used next to the blade to suck in as much debris as possible and pry bars to remove the cut wall sections. The surfaces and the debris are periodically sprayed with water.

1400 MM leaving 1st floor containment in Olympic South.

1415 Workers decon out of containment and meet at trailer for end of day meeting.

1430 Workers leaving site.

1515 MM off site.

1530 PBS off site. Corey still on site will shut off generator. Doors are locked

Signature: Claire Tsai

The individual signing certifies that the above information is correct and accurate.

Claire Tsai Date 9/22/2021



| Asbestos Contractor: Dickson PROject Name: Olympic South Abatement & Repairs PBS Site Observer(s): Claire Tsai, Toan Nguyen, Peter Stensland PBS Project No.: 40535.488 DES Project No.: 2021-192 Page 1 of 2 Time 6:00 am Contractor on Site Personnel: Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Project No.: 40535.488 DES Project No.: 2021-192 Page 1 of 2 Time 6:00 am 6:00 am Contractor on Site Personnel Fundaminary Phase Status: LV3 abatement, Remove LV3 roof exhaust fans and hoods Workers Project Manager Project No.: 40536.488 DES Project No.: 40536.488 DES Project No.: 40536.488 DES Project No.: 40536.488 DES Project No.: 40536.488 DES Project No.: 40536.488 DES Project No.: 40536.488 DES Project No.: 40536.488 DES Project No.: 40536.488 DES Project No.: 40536.488 DES Project No.: 40536.488 DES Project No.: 40536.488 DES Project No.: 40536.488 DES Project No.: 40536.488 DES Project No.: 40536.488 Date: 9/23/2021 | | | | | | | | | |
|---|---|-----------------|---|------------------|-----------------|-------------------|--------------------------|--------------|---------|
| Piss Site Observer(s): Claire Isal, Toan Nguyen, Peter Stensland DES Project No.: 2021-192 Page 1 of 2 Time 6:00 am Contractor on Site Personnel: Project Manager Yes No Supervisor Yes No Supervisor Yes No Other Personnel on Site: How Many? +15 Air Monitoring Personnel on site: WORK DESCRIPTION: Demo wallboard, wall insulation, floor supply duct work. Housekeeping of work area with water mist and HEPA vacuums. Remove LV3 roof exhaust fans and hoods WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots METHOD OF REMOVAL: Manual removal and mechanical with saws (wet methods) | Asbestos Contractor: Dickson | | Project Name: Olympic South Abatement & Repairs | | | | | | |
| Contractor on Site Personnel: Project Manager Yes No Supervisor Yes No Supervisor Yes No Gammary Phase Status: LV3 abatement, Remove LV3 roof exhaust fans and hoods Workers How Many? +15 Air Monitoring Personnel on site: WORK DESCRIPTION: Demo wallboard, wall insulation, floor supply duct work. Housekeeping of work area with water mist and HEPA vacuums. Remove LV3 roof exhaust fans and hoods WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots METHOD OF REMOVAL: Manual removal and mechanical with saws (wet methods) | PBS Site Observer(s): Claire Tsai, Toan Nguyen, Peter Stensland | | 3 | | Date: 9/23/2021 | | | | |
| Project Manager Yes No Supervisor Yes No Supervisor Workers Yes No Name: Corey Foust How Many? +15 Air Monitoring Personnel on site: WORK DESCRIPTION: Demo wallboard, wall insulation, floor supply duct work. Housekeeping of work area with water mist and HEPA vacuums. Remove LV3 roof exhaust fans and hoods WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots METHOD OF REMOVAL: Manual removal and mechanical with saws (wet methods) | | | | | Page | 1 of 2 | Time | 6:00 | am |
| Workers Yes No Name: Corey Foust How Many? +15 Air Monitoring Personnel on site: WORK DESCRIPTION: Demo wallboard, wall insulation, floor supply duct work. Housekeeping of work area with water mist and HEPA vacuums. Remove LV3 roof exhaust fans and hoods WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots METHOD OF REMOVAL: Manual removal and mechanical with saws (wet methods) | Contractor on Site Personnel: | | | | | | | | |
| How Many? +15 Air Monitoring Personnel on site: Olympic Peninsula Construction (OPC) WORK DESCRIPTION: Demo wallboard, wall insulation, floor supply duct work. Housekeeping of work area with water mist and HEPA vacuums. Remove LV3 roof exhaust fans and hoods WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots METHOD OF REMOVAL: Manual removal and mechanical with saws (wet methods) | Project Manager | Yes No | Supervisor | Yes No | | , | LV3 abatement, Remov | e LV3 roof e | exhaust |
| Air Monitoring Personnel on site: Olympic Peninsula Construction (OPC) WORK DESCRIPTION: Demo wallboard, wall insulation, floor supply duct work. Housekeeping of work area with water mist and HEPA vacuums. Remove LV3 roof exhaust fans and hoods WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots METHOD OF REMOVAL: Manual removal and mechanical with saws (wet methods) | Workers | Yes No | Name: Corey | y Foust | Other I | Personnel on Site | 9: | | |
| WORK DESCRIPTION: Demo wallboard, wall insulation, floor supply duct work. Housekeeping of work area with water mist and HEPA vacuums. Remove LV3 roof exhaust fans and hoods WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots METHOD OF REMOVAL: Manual removal and mechanical with saws (wet methods) | How Many? +15 | | | | MacDo | nald Miller (MM |) | | |
| Remove LV3 roof exhaust fans and hoods WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots METHOD OF REMOVAL: Manual removal and mechanical with saws (wet methods) | Air Monitoring Personnel on site | e: | | | Olymp | ic Peninsula Con | struction (OPC) | | |
| WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots METHOD OF REMOVAL: Manual removal and mechanical with saws (wet methods) | WORK DESCRIPTION: Demo wal | llboard, wall i | nsulation, floor | supply duct work | κ. Housek | eeping of work a | area with water mist and | l HEPA vacu | iums. |
| METHOD OF REMOVAL: Manual removal and mechanical with saws (wet methods) | Remove LV3 roof exhaust fans a | ind hoods | | | | | | | |
| | WORKER PROTECTION:1/2 face | respirator, Ty | vek, hard hat, b | poots | | | | | |
| | | | | | | | | | |
| OBSERVATIONS: | METHOD OF REMOVAL: Manua | l removal and | mechanical wi | th saws (wet met | hods) | | | | |
| 1600 DRS on site. Diskson and MMA workers are having their marning meeting going over the scope of work for the day | | 1.545.4 | | | | | | | |

0600 PBS on site. Dickson and MM workers are having their morning meeting going over the scope of work for the day.

0630 Campus security states they have disabled the fire system and are all clear to proceed with the smoke test on Level 3.

0645 PBS begins smoke testing throughout the 3rd floor containment of the Olympic South Building. PBS initiates the smoke test rooms: 329, 331, 333, 321 and student lounge. The east side of the building around rooms 329, 331 and 333 were lacking in air movement although the air was still being pulled towards negative air machines. The smoke took over 20 minutes for these areas to clear of smoke. Dickson added two additional negative air machines, one outside of room 335 and one inside room 329 with exhausts pointing towards the roof negative air machines located in 324. The air flow along the east side of the floor improved from the addition of these negative air units. The smoke dissipated at a rapid rate from 321 (approximately 6 minutes) and the student lounge (approximately 10 minutes). The smoke from the student lounge moved E away from the Olympic North building critical and construction door.

0800 13 Dickson workers removing wall sections from LV3.

0820 Three MM workers and two Dickson workers on the roof removing exhaust fans and roof hoods. MM workers safe off a unit, Dickson wraps unit and puts a critical barrier on the roof opening. MM places cap on penetration and secures with screws. Last hood removed on LV3 roof. Two large roof hoods on LV2 roof remain in place. Exhaust fans and roof hoods wrapped sealed and stacked on Olympic South roof until there is roof access to load down units with a forklift.

0926 Corey and Three workers go to maintenance building.

| ITEMS OF CONCERN: None | |
|--|--------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| All drop ceilings have been removed. | |
| 95% of scheduled wallboard has been removed – Olympic South, LV3 | Olympic South Level 3 and roof |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claude T State

Name: Claire Tsai Date 9/23/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/23/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0945 3 Dickson workers at the maintenance yard picking up the remaining poly and machinery loading out remaining of Dickson's contents.

1000 United rentals drop off boom lift on site for window removal Monday.

1115-1200 Todd L on site. PBS, Dickson and MM discuss preschedule meeting/ 3 week look ahead schedule items.

1210 13 Dickson workers on LV3, 4 are below the floor removing the HVAC system. 9 Dickson workers removing walls, fiberglass insulation and excess screws.

1400-1500 PBS collect air samples for the day. Weekly schedule meeting with project team.

1410 PBS off site. MM and Dickson still on site.

Signature: Mulle T Sui



| Asbestos Contractor: Dickson | Project Name: Olympic South Abatement & Repairs | | | | |
|--|--|-----------------------|--|--|--|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 9/24/ | | | | |
| | Page 1 of 2 Time | 6 am | | | |
| Contractor on Site Personnel: | | | | | |
| Project Manager Yes No Supervisor Yes No | Summary Phase Status: Level 3 abatement, Prep skybridge to Cascade for load out | | | | |
| Workers Yes No Name: Corey Foust | Other Personnel on Site: | | | | |
| How Many? +16 | MacDonald Miller (MM) | | | | |
| Air Monitoring Personnel on site: | Olympic Peninsula Construction (OPC) | | | | |
| WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots | | | | | |
| METHOD OF REMOVAL: manual demo of duct work | | | | | |
| OBSERVATIONS: | | | | | |
| 0600 Dickson and MM are having their morning meeting to c | go over the scope of work for the day. | | | | |
| 0645 MM enters the 1st floor containment to finish getting containment for finish getting co | the crawl space removing the HVAC sy the floor with a HEPA vacuum. The other | stem (approximately | | | |
| excess electrical wiring. PBS enter LV2 with MM and one Dick | _ | | | | |
| 0815 Two Dickson workers gathering supplies and moving ar | ound tools around the site. | | | | |
| 0845 Maintenance building cleared out. Sign removed from c | loor; college team notified space is ok f | or reentry. | | | |
| 0900 Look at sky bridge with MM and Dickson. Window sche | duled to be removed Monday morning | | | | |
| 0930 Two workers in sky bridge between the Cascade Buildin floor prepping for window removal Monday. | g and Olympic South Building continue | laying sticky poly on | | | |
| 1000 14 workers in the Olympic South Building level 3, 3 belo 11 above demolishing the remaining walls in the bathroom, c general work area with a HEPA vacuum. | | • | | | |
| 1030 Workers break for lunch. | | | | | |
| | | | | | |

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

BUILDING/AREA/LOCATION

Asbestos contaminated duct work from floor supply plenum

Olympic South LV3

The individual signing certifies that the above information is correct and accurate.

Signature: Mull TSU I

Date 9/24/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/24/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| ORSERVATIONS: | | |

1100 fire alarm triggered during conduit sampling. MM contacted campus safety to shut alarm and strobe off. Dickson and MM walk building to check for issues. MM will notify project team of incident with fire alarm.

1115 Workers return from lunch. Corey and one worker enter LV1 containment to look at pianos.

1130 MM and Dickson employee decon out of level 1containment following conduit sampling.

1200 PBS walk through LV2 with Corey and one worker look at pianos that will be cleaned and moved out.

1330 Workers continue demoing out of level 3 duct work from supply plenum and housekeeping with HEPA vacuums.

1400 MM off site for the day.

1415 Workers decon out of LV3 for the day and meet at job trailer for end of day meeting.

1430 Workers off site. PBS off site. Corey on site will shut off generator. All doors are secured.

Clavie Tsai Signature: Name: Claire Tsai



| Asbestos Contractor: Dickson | | mpic South Abatement & | Repairs | |
|--|--|--|--|---------------------------------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland | PBS Project No.: 40 DES Project No.: 20 | | Date: 9, | /27/2021 |
| | Page 1 of 2 | Time | 6:00 | am |
| Contractor on Site Personnel: | Cump many Dhaga Ct | tatus IV2 abatamant Dan | a ava vije davi fi | |
| Project Manager Yes No Supervisor Yes | No skybridge for load | tatus: LV3 abatement, Ren out. | nove window ii | rom |
| Workers Yes No Name: Corey Foust | | | | |
| How Many? +14 | MacDonald Miller | , , | | |
| Air Monitoring Personnel on site: PBS/Dickson | • • | Construction (OPC) reclar terior. Separate project an | | orking on |
| WORK DESCRIPTION: Demo wallboard, wall insulation, floor supply | / duct work. Housekeeping of w | vork area with water mist a | and HEPA vacu | ıums. |
| Remove skybridge window | | | | |
| WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots | | | | |
| METLIOD OF DEMOVAL Manual removal and machining with source | a (wat mathada) | | | |
| METHOD OF REMOVAL: Manual removal and mechanical with saws | s (wet methods) | | | |
| OBSERVATIONS: | | | | |
| D600 Dickson and MM workers are having their morning continuing cleaning on the 3rd floor and removing the waste bags from Level 3. Sounds Glass company on site in skybridge. MM is going to be aiding in sample collections are along with an electrician from MM and 1 superscripts. | window on the skybridge with two workers to rem ction on the 3rd floor (co | e to the Cascade Build nove glass pane from nduits, and other po | ding for load window. Gl wered devic | d out of lass stored es). |
| order to collect microvac samples of light switch, recept electrical boxes. | | • | • | _ |
| 0730 Dickson spoke to PBS about having workers above demolishing the ceiling. PBS has no objection as long as and ductwork removed. | _ | - | • | |
| 0800 2 Sound Glass workers, assisted by Dickson, are re Building and the Cascade building. Access below the sky removal is complete. | • | , , | , . | |
| 0900 2 additional walls will be removed on level 3 of the side of the Student Lounge. Walls need to be opened for additional wall removal activities. The skybridge window | or additional cleaning. Da | n (MM) has been no | tified of the | |
| ITEMS OF CONCERN: None | | | | |
| CHANGES IN SCOPE: Two walls added for removal in student loung | ge. MM send out marked up dr | awing to project team. | | |
| | | | | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCA | ATION | | |
| Demolished wall system materials and metal HVAC | | | | |
| ductwork from Olympic South, Level 3 | Olympic South Level 3 | | | |
| | | | | |
| | I | | | |
| | Signature: Mchall m | | | |
| The individual signing certifies that the above | //vena/X/m | V- | | |

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 9/27/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/27/2021 |
|---|-------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

opening with poly sheeting (raining) and installing a wood safety barrier spanning the opening. Workers have fall protection secured to metal beam above drop ceiling.

0945 3 Dickson workers below the floor in the supply plenum on the west side of the Olympic South Building removing the HVAC system. 1 Dickson worker assisting a MM worker and PBS with glove bag method removal and sampling of conduit sections throughout level 3. 3 Dickson workers demolishing walls from the level 3 Men's Restroom, 3 Dickson workers cleaning the level 3 space and preparing for load out.

1030 Dickson workers take a lunch break and then resume work efforts as noted.

1200 Dickson workers load out waste bags from level three. The waste bags are wet wiped prior to removing from the work area. The labeled ACM bags are loaded out via the Cascade skybridge window into a forklift bin followed by transport and dumping into the container in the construction parking lot.

1300 PBS conducts a staff safety meeting. Items discussed in the meeting were consistent with the Job Hazard Analysis (JHA) prepared specifically for this project site and included subjects such as slips/trips/falls, electric hazards, PPE and associated challenges, and roof safety.

1330 The disposal container in the construction parking lot is now full. LeMay is scheduled for a pick-up and container replacement tomorrow

1400 PBS collects remaining air samples for the day.

1430 Workers depart the project site

1530 PBS off site, microvac samples collected today will be dropped off at Lab/Cor. Corey still on site will shut of generator. Doors are locked.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 9/27/2021



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | | | |
|--|--------------------|--------|--|--------|---------|-------------|-------------------|--|------|-----------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: | | Date: 9 | : 9/28/2021 | | | | |
| | | | | | | Page ' | 1 of 2 | Time | 6:00 | am |
| Contractor on Site Perso | nnel: | | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summa | ary Phase Status: | LV3 abatement | | |
| Workers | Yes | No | Name: Corey | Foust | | Other F | Personnel on Site | : | | |
| How Many? +14 | | | | | | MacDo | nald Miller (MM) | 1 | | |
| Air Monitoring Personne | l on site: PBS/Di | icksor | า | | | , , | | struction (OPC) reclad Separate project and | | orking on |
| WORK DESCRIPTION: De Load exhaust fans and h | oods down from | ı LV3 | roof | | of work | area with w | vater mist and HI | EPA vacuums. | | |
| TO THE PROPERTY. | ., = /acc respirat | , ry | Total Hard Hary I | | | | | | | |
| METHOD OF REMOVAL: | Manual remova | l and | mechanical wit | h saws | (wet me | ethods) | | | | |
| OBSERVATIONS: | | | | | | | | | | |

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks which include continued cleaning on the 3rd floor.

0800 3 workers on level 3 continue to remove the HVAC supply ductwork below the floor. The ductwork is removed via taking out screws or using sawzalls. The ductwork is taken out of the plenum through the floor hatches and collapsed if applicable prior to bagging. 1 worker is removing gypsum ceiling framing in student lounge for demolition access of duct work above ceiling, 2 workers are HEPA vacuuming demolition debris in the south side of the work area, and 1 worker is bagging up demolished material including metal ductwork and metal ceiling framing.

0900 Two workers in 166A extending mini enclosure for access to washer dryer valve and hose bib for reclad contractor. Mini enclosure in hall near 172 has been altered to include section of wall cavity for access to hose bib. PBS initiates PCM clearance for mini enclosure in hall near 172.

1030 Workers break for lunch.

1100 PBS microvac sampling on Olympic South, Level 3 at hallway/Student Lounge intersection below student lounge floor.

1115 Workers return to work on level 3 and 166A mini enclosure.

1215 PBS notify Dickson and MM that mini enclosure clearance for hall near 172 pass, workers may use this space for hose bib access.

| ITEMS OF CONCERN: None | |
|---|------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated ceiling framework materials and | |
| metal HVAC ductwork from Olympic South, Level 3 | Olympic South Level 3 |
| | |
| | |
| | |

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 9/28/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/28/2021 |
|---|-------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1225 1 worker load one waste bag with tyvek suits and wallboard into lined dumpster near level 1 entry from 166A mini enclosure work.

1230 1 worker from 166A mini enclosure move to parking lot connex to assist PBS with Maintenance building contents sampling. PBS visual contents, Dickson worker in area if additional cleaning is needed. PBS collect microvac samples from representative set of items.

1330 2 workers enter LV1 containment to view Room 270 and 271. Workers will hang poly sheeting as visual screen from windows. PBS does a visual inspection in 166A of the preparation of the hose bib plumbing access for plumbing contractor work. The plumbing is exposed, and poly sheeting is sealed around the wall isolating the pipe. PBS observes the exposed plumbing is dripping into the wall cavity. No fungal growth is observed where the plumbing contractor will access, however: a PCM asbestos clearance will be required in the space prior to access by others.

1415 Workers decon out of containment for end of day. Meet at job trailer for end of day meeting. No safety issues for the day. Windows in Rooms 270 and 271 have poly sheeting visual barrier.

1430 Workers off site for the day. Corey confirmed with Patrick with OPC sufficient access provided with mini enclosure from 166A. PBS will run air clearance in the morning. Le May dumpster not swapped today. Should be swapping dumpster tomorrow.

1430 Workers depart the project site.

1530 PBS off site, microvac samples collected today will be dropped off at Lab/Cor. Corey still on site will shut of generator. Doors are locked.

Signature:

Name: Mike Smith Date 9/28/2021



| Asbestos Contractor: Dickson | | | Project Name: Olympic | South Abatement & I | Repairs | | | | |
|---|-------------------|--------------|--|---|----------|---|---------------------|---------|-----------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland, Gregg Middaugh, Cameron Budnick | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 9 | | /29/2021 | | | | |
| | | | | | | Page 1 of 2 | Time | 6:00 | am |
| Contractor on Site Perso | nnel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: | LV3 abatement and I | oad out | |
| Workers | Yes | No | Name: Core | y Foust | | Other Personnel on Site | : | | |
| How Many? +14 | | | | | | MacDonald Miller (MM) | | | |
| Air Monitoring Personne | l on site: PBS/Di | cksor | 1 | | | Olympic Peninsula Cons Olympic South Exterior. | , , | | orking on |
| WORK DESCRIPTION: De Load out waste bags froi WORKER PROTECTION:1 | m LV3 | | | | of work | area with water mist and HE | PA vacuums. | | |
| | , <u> </u> | , i <u>y</u> | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | |
| METHOD OF REMOVAL: | Manual remova | l and | mechanical wi | th saws | (wet m | ethods) | | | |
| OBSERVATIONS: | | | | | | | | | |

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. Dickson will be continuing to remove the HVAC system on the 3rd floor.

0745 4 Dickson workers below the floor removing the HVAC system. One Dickson worker above using a drill to remove metal framework to access the HVAC system in the student lounge. One worker using a HEPA vacuum to clean the ram boards 2 workers bagging up HVAC systems into poly bags and wetting them down before sealing them. One worker is removing excess wiring that ran above the ceiling. Two Dickson workers moving maintenance contents from connex to Room 168 for further cleaning before PBS sampling.

0800 Discuss piano storage with Corey. Need a confirmed count and weight for pianos to confirm storage plan temporary in skybridge to cascade and cascade 531 based on structural weight capacity of building provided by architect. PBS set up clearance samples in Room 166A mini enclosure.

0830 PBS started TEM ambient air samples for all four of the exterior elevations of the Olympic South Building to run for full shift.

1000 Two Dickson workers are inside of Rm. 168 cleaning Maintenance building contents with HEPA vacuums and rags. PBS air sampling during cleaning activities. PBS in area for visual inspection of tools once cleaned and surface sampling of representative items after passing visual.

| ITEMS OF CONCERN: None | |
|---|---------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated ceiling framework materials and | |
| metal HVAC ductwork from Olympic South, Level 3 | Olympic South Level 3, Room 168 |
| | |
| | |
| | |

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 9/29/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/29/2021 |
|---|-------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1030 Workers beak for lunch.

1115 Workers return to work.

1130 Dickson continues to clean maintenance building contents in Room 168. All contents that are cleaned are then visually inspected for any remaining dust workers touch up cleaning as needed.

1145 Dickson workers are loading out ACM waste from level 3. Bags are checked for holes, if there is one, they have a second bag placed over top. The outsides of the bags are wiped with clean wet rags before they are loaded out. One worker spot checks and wipes down the bags before they are taken down. Small holes are duct taped shut. 4 workers are in the load out area. Workers load out bags from Cascade to Olympic South Skybridge window into forklift bin. Forklift operator drives bin to parking lot to be emptied in to waste trailer. Worker in skybridge using fall protection secured to metal beam above ceiling. Pedestrian access restricted during load out process.

1353 Worker zipping up load out window for the day and securing skybridge loadout.

1400 Dan T with Pierce college drops off rat traps for Olympic South Building. PBS provide traps to Dan (MM) to coordinate setting traps in building with Dickson.

1415 Workers prep site for end of day and meet at job trailer for end of day meeting.

1430 Workers leave site for the day.

1530 PBS leaving site. Doors locked. Corey still on site will shut of generator.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 9/29/2021



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|--|---|--|------------------------|--------------|-----------------|--|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 9 | Date: 9/30/2021 | |
| | | | Page 1 of 2 | Time | 6:00 | am | |
| Contractor on Site Persor | nnel: | | | | | | |
| Project Manager Yes No Supervisor Yes No | | | Summary Phase Status: Maintenance building co | | oad out | | |
| Workers | Yes No | Name: Corey Foust | Other Personnel on Site | : | | | |
| How Many? +14 | | | MacDonald Miller (MM) | l | | | |
| Air Monitoring Personnel | on site: PBS/Dickso | n | Olympic Peninsula Cons | struction (OPC) reclad | contractor w | orking or | |
| 7 iii Worlitoriiig i ersoriiiei | OH Site. 1 DS/ Dickso | | Olympic South Exterior. | Separate project and | job site. | | |
| WORK DESCRIPTION: Ho from level 3, Olympic Sou in clean room. Load out v | usekeeping of work ith Building. Maintel vaste bags from LV3 | area with water mist and HEI nance building contents bein , clean stairwell | Olympic South Exterior. A vacuums, load-out of asbe | stos-contaminated b | agged waste | | |
| WORK DESCRIPTION: Ho | usekeeping of work ith Building. Maintel vaste bags from LV3 | area with water mist and HEI nance building contents bein , clean stairwell | A vacuums, load-out of asbe | stos-contaminated b | agged waste | | |
| WORK DESCRIPTION: Ho from level 3, Olympic Sou in clean room. Load out v | usekeeping of work ith Building. Mainter vaste bags from LV3 /2 face respirator, Ty | area with water mist and HEI nance building contents bein , clean stairwell vek, hard hat, boots | A vacuums, load-out of asbe | stos-contaminated b | agged waste | | |

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. Dickson will be continuing to remove labeled waste bags from the 3rd floor in the Olympic South Building.

0640 3 Dickson workers are on the roof repairing the eastern roof hood on the lower roof of the Olympic South Building. They removed the cap and poly sheeting, then attached and resealed a new section of poly sheeting that would give a better seal followed by replacing the cap.

0700 2 Dickson workers are transferring stored maintenance building contents from the parking lot A Conex to Olympic South, Room 168 for further cleaning and visual inspection.

0730 While checking the level 3 work areas, PBS discovers white wallboard particles outside of containment. Dickson was advised of PBS' observation and HEPA vacuumed them up promptly. They are also going to HEPA vacuum their cleaning room. The first bag PBS looked at outside of the containment had a puncture hole from metal ceiling grid in it. PBS also observed some debris being tracked into the stairwell.

0800 3 Dickson workers are off loading the asbestos contaminated waste into the ACM dumpster. PBS advised Corey F of the issues with debris being tracked out during the load out process.

| ITEMS OF CONCERN: None | |
|---|---------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated waste bags loaded out via the | |
| skybridge Olympic South, Level 3 | Olympic South Level 3, Room 168 |
| | |
| | |
| | |

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 9/30/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 9/30/2021 |
|---|-------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0810 Corey F investigated and observed the tracking of wallboard debris in the stairwell that stretched from containment to the 2nd level load out zone. White wallboard particles were lying loose on the floor with some being crunched into the grip strips on the stairs and on the ram boards. Corey F stopped all load out work to meet with crew and fix load out procedures. Dickson workers are now cleaning up the debris with HEPA vacuums and wet wiping. PBS was performing air sampling in the area during these activities. PBS will analyze these samples to determine if further action is required.

0900 2 Dickson workers are now cleaning the maintenance building contents moved into Room 168 this morning. All items that have been cleaned are inspected by PBS. If the items are found to be clean, they are segregated in a separate area for cleaned items. These items will eventually be microvac sampled to confirm cleanliness. PBS air sampling is in progress during the cleaning process.

0930 To correct the above issue for the remainder of the project Dickson workers are now double bagging every bag that comes out in a new clean bag. All workers are wearing booties to limit track in and out from the work area. The decon area has been recleaned with a wet rag and a HEPA vacuum. PBS inspected the stairwell and clean room, post cleaning, no issues remain.

1030 Workers break for lunch.

1115 Workers resume to work.

1120 PBS attends weekly 3-week look ahead schedule meeting with MM and Dickson.

1210 Dickson workers are now using the decon chamber to place filled bags into new clean bags. 4 workers inside containment are transporting the bags to the decon, they are then loaded out down the stairs to the LV2 skybridge to be loaded out the window to the forklift bin and transferred to the container in the parking lot.

1330 Dickson workers on level 3 continue to load out labeled waste bags via the skybridge. This activity will continue throughout the rest of the shift and into tomorrow. Dickson workers continue to wet wipe and HEPA vacuum maintenance building contents now stored in Room 168 (Olympic South).

1400 – 1500 PBS attends weekly progress meeting with the project team.

1410 Skybridge load-out window closed and secured for the day.

1415 Workers prep site for end of day and meet at job trailer for end of day meeting.

1430 Workers leave site for the day.

1530 PBS leaving site. Doors locked. Corey still on site will shut of generator.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 9/30/2021



| Asbestos Contractor: Dic | | | Project Name: Olympic South | Abatement & | Repairs |
|---|-----------------------|----------------------------|---|---------------|------------------------|
| PBS Site Observer(s): Clair Stensland, Gregg Middaug | | Toan Nguyen, Peter | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 10/1/2021 |
| | | | Page 1 of 2 | Time | 6:00 am |
| Contractor on Site Person | nel: | | Cummon Dhaca Ctatus IV/2 ak | | lood out |
| Project Manager | Yes No | Supervisor Yes No | Summary Phase Status: LV3 ab Maintenance building content | | load out |
| Workers | Yes No | Name: Corey Foust | Other Personnel on Site: | | |
| How Many? +14 | | | MacDonald Miller (MM) | | |
| Air Monitoring Personnel | on site: PBS/Dicksor | า | Olympic Peninsula Construction Olympic South Exterior. Separa | | |
| from level 3, Olympic Soutin clean room. | th Building. Mainter | nance building contents be | EPA vacuums, load-out of asbestos-cing cleaned and inspected in Room 10 | | |
| WORKER PROTECTION:1/2 | 2 face respirator, Ty | vek, hard hat, boots | | | |
| METHOD OF REMOVAL: M | Manual (wet method | s) | | | |
| | | | | | |
| OBSERVATIONS: | | | | | |
| 1600 Dickson and MM | workers are ha | ving their morning me | eeting to go over the scope of | work for th | ne day. Dickson |
| workers go to assigned | l tasks. Dickson | will be continuing to | remove labeled waste bags fro | om the 3rd | floor in the Olympic |
| South Building. | | | | | |
| 0700 3 Dickson worker | rs inside contain | ment one is loading | the bagged asbestos-contami | nated mate | rial into a cart to |
| | | _ | loaded into the cart the work | | |
| • | | • | | | • |
| · | | • | in the decon area place the ba | _ | • |
| | | | ape, wet cloths, and sealant sp | | |
| _ | | • . | n a clean poly sheeting drop la | - | |
| sheeting floor. A chain | of 4 workers tra | insports the bags dov | vn one level to the load out ar | ea on the sl | kybridge where it is |
| oaded into a metal wa | ste container ra | ised by a forklift (one | Dickson operator). Once full is | t is lowered | and driven back to |
| the parking lot to be di | isposed of in a l | ined asbestos-contan | ninated materials disposal con | tainer. Dick | son has an outside |
| work area air sample ru | unning on the la | nding between the 2 | nd and 3rd floors. | | |
| | | | ing contents moved into Roor | m 168. All it | ems that have been |
| | • | | lean, they are segregated in a | | |
| · | • | | cleanliness. PBS air sampling i | • | |
| | | e sampled to commi | cicariiiricss. 1 b5 air sarripiirig i | 3 III progres | 33 daring the cleaning |
| ITEMS OF CONCERN: Non | ne | | | | |
| CHANGES IN SCOPE: Non | e | | | | |
| QUANTITY AND TYPE ACM | A REMOVED THIS S | HIET/ PHASE: | BUILDING/AREA/LOCATION | | |
| Asbestos contaminat | | | | | |
| LV2 skybridge to Cas | _ | | Olympic South Level 3, Room 168 | | |
| | , | • | | | |
| | | | | | |
| | | | Signature: | | |

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/1/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/1/2021 |
|---|-------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

process.

0725 Dickson begins loading out, they had to wait for adequate light before beginning. Dickson has also now hung poly sheets along the windows of the 2nd level skybridge between Olympic South and the Cascade building in order to create a visual barrier. The load out area is demarcated and taped off to dissuade people from entering the work zone.

0800 PBS analysis of air sampling collected yesterday did not yield results of concern. This includes sampling conducted during cleaning and load-out in the Olympic South Building stairwell.

0800-0930 Meeting in CAS 531 with Gregg M and Claire (PBS), Todd and Corey (Dickson), John (MM) and Charlene W. (Pierce) Review inventory process and documentation.

0930 3 Dickson workers inside LV3 containment loading out ACM bags using the same process as described above. 5 Dickson workers are loading the bags down the stairs and into the metal waste container on the forklift. Two Dickson workers are outside of the building, one is operating the forklift and one is spotting.

1000 Dickson workers continue cleaning the maintenance building contents that have been moved into Room 168. Following cleaning and inspection by PBS, items found visually clean are stored in a clean room until lab results confirmation.

1030 Workers break for lunch.

1115 Workers return to work tasks.

1300 3 workers inside LV3 containment are spraying down the inside of the clean outer bag with water, taping it shut then passing it down the 5-worker chain to the waste container on the forklift. When full the container is wheeled back to the Parking lot and dumped into the lined container located in the construction area - Parking Lot A. 2 Dickson workers continue cleaning the maintenance building contents that have been moved into Room 168. PBS enters the Level 1 containment to add photos to Smartsheet to confirm contents marked for disposal.

1410 Skybridge load-out window closed and secured for the day.

1415 Workers prep site for end of day and meet at job trailer for end of day meeting.

1430 Workers leave site for the day.

1515 MM workers depart the site

1540 PBS leaving site. Doors locked. Corey still on site will shut of generator.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date 10/1/2021



| Asbestos Contractor: Did | :kson | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|--|-----------------|--|--|------|----------|----|
| PBS Site Observer(s): Clair Stensland | re Tsai, Mike Smi | th, Toan Nguyen | ı, Peter | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 10 | | 0/4/2021 | |
| | | | | Page 1 of 2 | Time | 6:00 | Am |
| Contractor on Site Persor | nel: | | | | | | |
| Project Manager | Project Manager Yes No Supervisor Yes No | | | Summary Phase Status: LV3 abatement and load out Maintenance building contents cleaning, LV2 prep | | | |
| Workers | Yes N | lo Name: Cor | ey Foust | Other Personnel on Site: | | | |
| How Many? +22 | | | | MacDonald Miller (MM) |) | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | |
| | | | | | | | |

WORK DESCRIPTION: Housekeeping of work area with water mist and HEPA vacuums, load-out of asbestos-contaminated bagged waste materials from level 3, Olympic South Building. Maintenance building contents being cleaned and inspected in Room 168 Olympic South Building and stored in clean room. Level 2 prep work for fireproofing removal and Piano cleaning.

WORKER PROTECTION: 1/2 face respirator, Tyvek, hard hat, boots

METHOD OF REMOVAL: Manual (wet methods)

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. Dickson workers will be prepping HVAC ducting for loading out and will be continuing to remove labeled waste bags from the 3rd floor in the Olympic South Building.

0630 2 Dickson workers are cleaning the maintenance building stored contents in Room 168. All items that have been cleaned are inspected by PBS. Cleaned and inspected items are segregated in a clean room for PBS microvac sampling of representative items. PBS air sampling is in progress during the cleaning process.

0700 13 Dickson workers continue with work efforts related Olympic South Level 3. 3 of those workers are disassembling HVAC ducting for bagging and load out. 1 worker along the south side of the building is cutting up the HVAC with a Sawzall. 3 workers bagging ACM debris into a clean bag in the load out zone. 5 workers outside of containment on the stairs loading out ACM bags. 2 workers below, one operating the forklift with the ACM waste container and the other spotting.

0800 2 Dickson workers are replacing the prefilters in the negative air machines. They also fixed one of the negative air exhausts coming out of the ECE.

0900 2 Dickson workers continue cleaning maintenance building contents in Room 168. Work on Level 3 continues as noted. 2 workers are on LV2 prepping area for piano cleaning and fireproofing abatement.

| ITEMS OF CONCERN: None | |
|---|-----------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated waste bags loaded out via the | Olympic South Level 2/3, Room 168 |
| skybridge Olympic South, Level 2 from Level 3 | |
| containment | |
| | |

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date 10/4/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/4/2021 |
|---|-------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1000 LeMay is on site picking up 2 full ACM dumpsters from Parking Lot A and trading them for 2 empty containers. 2 Dickson workers continue cleaning maintenance building contents in Room 168.

1030 – 1115 Dickson workers break for lunch and resume work.

1130 PBS walks through LV2 with Corey and 2 Dickson workers. Discuss logistics and protocols for piano cleaning and storage while waiting for lab results. Discuss area of fireproofing abatement and contents that need to be moved prior to removal of fireproofing. All contents that area moved need to be labeled with original location for reference during inventory process. PBS email college for confirmation of wood risers in room 284 if they will be demolished and if LED lighting from Rooms 283 and 284 need to be saved. Workers begin prep work of poly clean room and cleaning area for piano cleaning and storage before being removed. LV3 containment 4 rooms still contain bagged asbestos-contaminated material or ductwork waiting on load out. PBS collects inside the work area air sample.

1200 Workers in Room 168 are in the process of cleaning 2 chop saws.

1300 3 workers inside containment on LV3 are spraying down the inside of the clean outer bag with water, taping it shut then passing it down the 5-worker chain to the waste container on the forklift. When full, the container is wheeled back to the Parking lot and dumped into the lined container located in the construction area - Parking Lot A. 2 Dickson workers continue cleaning maintenance building contents in Room 168.

1340 Corey F and PBS exit the Level 2 containment.

1400 Skybridge load-out window closed and secured for the day.

1415 Workers prep site for end of day and meet at job trailer for end of day meeting.

1430 Workers leave site for the day.

1500 PBS and MM workers depart the site. Doors are locked. Corey still on site will shut of generator.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/4/2021



| Asbestos Contractor: Dicks | son | | | Project Name: Olympic South Abatement & Repairs | | | |
|--|---------------|--|--|--|------|------|----------|
| PBS Site Observer(s): Claire Stensland, Gregg Middaugh | | n, Toan Nguyen | ı, Peter | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 10/5 | | | 0/5/2021 |
| | | | | Page 1 of 2 | Time | 6:00 | Am |
| Contractor on Site Personne | el: | | | • | | | |
| Project Manager Yes No Supervisor Yes No | | Summary Phase Status: LV3 abatement and load out Maintenance building contents cleaning, LV2 prep | | | | | |
| Workers | Yes No | Name: Core | ey Foust | Other Personnel on Site | : | | |
| How Many? +25 | | | | MacDonald Miller (MM) | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | |
| | | | | | | | |

WORK DESCRIPTION: Housekeeping of work area with water mist and HEPA vacuums, load-out of asbestos-contaminated bagged waste materials from level 3, Olympic South Building. Maintenance building contents being cleaned, inspected, and sampled in Room 168 and associated clean room. Begin preparation in Level 2 for fireproofing removal and piano/drum cleaning.

WORKER PROTECTION: 1/2 face respirator, Tyvek, hard hat, boots

METHOD OF REMOVAL: Manual (wet methods) and Sawzalls

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. Dickson workers will be continuing work efforts in the Level 3 enclosure. Workers will also continue to clean the items from the maintenance building in Room 168 and doing preparations for piano cleaning and fireproofing removal on level 2.

0700 9 Dickson workers will be continuing work efforts in the Level 3 enclosure. 2 workers removing HVAC metal ducting from the student lounge above ceiling space using Sawzalls. 1 worker is removing the GWB ceiling in the north hallway, and 2 workers are in the decontamination chamber cleaning loaded bags and then placing into a second clean bag (double bagging). 4 workers are loading the double-bagged materials from Level 3 to the Level 2 skybridge. 2 workers are involved with transporting bags from the level 2 skybridge to parking lot A waste trailer, 1 is operating the forklift and 1 is spotting.

2 Dickson workers are cleaning the maintenance building contents in Room 168. All items that have been cleaned are inspected by PBS. Cleaned and inspected items are segregated in a clean room for PBS microvac sampling of representative items. PBS air sampling is in progress during the cleaning process.

5 Dickson workers are working in Level 2 HEPA vacuuming the corridor and preparing the northeast portion of the building for piano cleaning and storage.

| ITEMS OF CONCERN: None | |
|--|-----------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated waste bags loaded out via the east | Olympic South Level 2/3, Room 168 |
| skybridge of Olympic South, Level 2 from Level 3 | |
| containment | |

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date 10/5/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/5/2021 |
|---|-------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0830 PBS Project Manager Gregg Middaugh on site.

0900 Dickson workers continue cleaning maintenance building contents in Room 168, PBS is microvac sampling items that have been determined visually clean. Work on Level 3 continues as noted. 6 workers are on Level 2 prepping area for piano and drum cleaning and fireproofing abatement. Air monitoring is being conducted in all affected areas.

1030 – 1115 Dickson workers break for lunch and resume work.

1120 Fuel is delivered to job site generators. Dickson workers moving more negative air machines to the Level 2 work area.

1245 Gregg Middaugh departs the site

1300 6 Dickson workers on the 2nd level of the Olympic South building hanging poly containment for south end of level 2 where fireproofing removal will occur, clean room built near exit to skybride to cascade for eventual piano and drum storage while waiting for test results, cleaning area built in art gallery on LV2. 2 Dickson workers below on the first floor doing detail cleaning on the last few contents from the maintenance building. The items are then loaded out into a clean area where PBS takes a micro vac sample from each bag of items. 9 workers continue on Level 3 continuing work efforts as previously noted

1400 Skybridge load-out window closed and secured for the day.

1415 Workers prep site for end of day and meet at job trailer for end of day meeting.

1430 Workers leave site for the day.

1500 PBS and MM workers depart the site. Doors are locked. Corey still on site will shut of generator.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/5/2021



| Asbestos Contractor: Die | ckson | Project Name: Olympic South Abatement & Repairs | | |
|---|--|---|------------|--|
| PBS Site Observer(s): Cla Stensland | ire Tsai, Mike Smith, Toan Nguyen, Peter | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 10/ | | |
| | | Page 1 of 2 Tin | ne 6:00 Am | |
| Contractor on Site Persor | nnel: | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: LV3 abatement and load out LV2 fireproofing removal prep and piano cleaning | | |
| Workers | Yes No Name: Corey Foust | Other Personnel on Site: | | |
| How Many? +23 | | MacDonald Miller (MM) | | |
| Air Monitoring Personnel on site: PBS/Dickson | | Olympic Peninsula Construction (OPC Olympic South Exterior. Separate pro | _ | |
| | | | - | |

WORK DESCRIPTION: Housekeeping of work area with water mist and HEPA vacuums, load-out of asbestos-contaminated bagged waste materials from level 3, Olympic South Building. Continue preparation in Level 2 for fireproofing removal, move and clean baby grand pianos and drums.

WORKER PROTECTION: 1/2 face respirator, Tyvek, hard hat, boots.

METHOD OF REMOVAL: Manual (wet methods) and Sawzalls

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. Dickson workers will be continuing work efforts in the Level 3 enclosure. Workers complete cleaning content from the maintenance building in Room 168, PBS will complete surface sampling of representative contents and get the samples to lab. Workers continue prep for fireproofing removal and piano cleaning on Level 2.

0730 Two Dickson workers have finished cleaning maintenance building contents and are now moving to the 2nd floor to assist with prep work. 5 workers on the 2nd floor, two removing speakers from the wall in Room 283, two taping up poly sheeting on the walls and one vacuuming the carpet with a HEPA vacuum (south side of the 2nd floor).

0800 5 workers on level 3 removing north hallway gypsum ceiling and HVAC system above. One worker bagging debris. Two workers placing the ACM bags into clean bags for loadout and spraying the inside with water. Dickson workers on level 2 move two negative air machines from hallway into room 284 along with additional machines.

0810 One worker on level 3 HEPA vacuuming decon/load out area in containment.

0900 Discuss tracking contaminated areas to remain on as-builts that MM is developing during the project.

1030 Workers break for lunch.

| ITEMS OF CONCERN: None | |
|--|-----------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated waste bags loaded out via the east | Olympic South Level 2/3, Room 168 |
| skybridge of Olympic South, Level 2 from Level 3 | |
| containment | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsur.

Name: Claire Tsai

Date 10/6/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/6/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1100 PBS internal safety meeting items discussed include: Rat traps placed in building, use of adequate height ladders, using handrail on stairs-specifically stairs to roof hatch with rain, trip hazards with extension cords and spider boxes.

1115 Workers return to work.

1140 LV3 9 workers inside containment meeting in the decon area, fire alarm triggered in Olympic North Corey communicating with workers, MM following up on alarm College notified. Workers are continuing demo on hallway ceiling.

1200 Discuss neg air flow with Corey associated with clean room and cleaning room for piano and drum cleaning on LV2.

1200-1330 Meeting with Todd and Corey (Dickson) and John and Dan (MM). Discuss cost associated with cleaning vs disposal of building furniture and project schedule.

1345 3 workers cleaning on the drums on the 2nd floor of the Olympic building. 2 workers on the south side of the building setting up poly sheeting outside room 284A.

1350 Clean room for piano storage while awaiting test results on LV2 is set up. PBS will run PCM clearance.

1400 Skybridge load-out window closed and secured for the day.

1415 Workers prep site for end of day and meet at job trailer for end of day meeting.

1430 Workers leave site for the day.

1500 PBS and MM workers depart the site. Doors are locked. Corey still on site will shut of generator.

Signature: Clause T Sui
Name: Claire Tsai



| Asbestos Contractor: Dicks | son | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|------------------------|--|------|---|------|---|-----------|
| PBS Site Observer(s): Claire Stensland | Tsai, Mike Smith, Toan | n Nguyen, Peter | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: | | | 10/7/2021 |
| | | | | Page 1 of 2 | Time | 6 | am |
| Contractor on Site Personne | el: | | | | | | |
| Project Manager | Yes No Sup | pervisor Yes | . No | Summary Phase Status: LV3 abatement and load out LV2 fireproofing removal prep and piano cleaning | | | |
| Workers | Yes No Na | me: Corey Fous | t | Other Personnel on Site: | | | |
| How Many? + 16 | | | | MacDonald Miller (MM) | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | | |
| | | | | | | | |

WORK DESCRIPTION: Housekeeping of work area with water mist and HEPA vacuums, load-out of asbestos-contaminated bagged waste materials from level 3, Olympic South Building. Continue preparation in Level 2 for fireproofing removal, move and clean baby grand pianos and drums.

WORKER PROTECTION: 1/2 face respirator, Tyvek, hard hat, boots.

METHOD OF REMOVAL: Manual (wet methods) and Sawzalls

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. Dickson workers will be continuing work efforts in the Level 3 enclosure. Workers on level 2 continue prep for fireproofing removal and continue cleaning baby grand pianos and drums. Dickson has 18 workers on site plus Corey.

0640 5 workers inside the Olympic building level 2 preparing additional negative air machines and preparing the space to move the pianos. Sticky poly is laid on the ground to roll pianos to cleaning area set up in the art gallery.

0730 Workers finish setting up 7 additional negative air machines, three in Room 283 and four in Room 284. 10 workers in level 3 containment. Workers on level 3 are using power tools to remove sections of the HVAC systems and cut out ceiling materials. 1 Dickson worker is not feeling well and left site for the day. Another worker also left site for the day. Crew of 16 workers plus Corey remaining.

0800 Workers begin moving baby grand pianos on Level 2. One baby grand piano in Room 283, two in Room 284. Six workers involved in piano moving process. Workers unscrew foot pedals, label and remove. Six workers lift piano off of the rolling stand and remove the stand. Then the leg closest to the side that will be laying down on the sheet rock cart is removed. From there the piano is tipped on it's side onto the cart and the remaining two legs are removed. The moving blanket is taped up on the piano and it is rolled down the hall.

To lay down the piano in the cleaning room set up in the art gallery the top two legs are reattached, the piano is tipped down off of the cart, and then the 3rd leg is reattached leaving the piano standing on the ground.

| lowin on or the eart, and then the stateg is reattached i | leaving the plane standing on the ground. |
|---|---|
| ITEMS OF CONCERN: None | |
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Level 3 | |
| | Olympic South LV 2/3 |
| | |
| | • |

The individual signing certifies that the above information is correct and accurate.

Signature: War Jan Date 10/7/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/7/2021 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | · | · |

0830 6 workers in 284 disassembling last baby grand piano for transport to cleaning area. 6 workers lift piano and tip onto sheet rock cart protected with blanket. PBS inventory all keyboards in MIDI lab Room 275. Keyboards in Room 270 are uncleanable and will be disposed.

0900 Two workers in art gallery cleaning room cleaning baby grand pianos. LV2 cleaning and clean room set up. Clean room for piano storage is in corridor near exit to cascade skybridge.

0930 8 workers in level 3 containment are removing ductwork from the ceiling with Sawzall and drills. 2 workers outside bringing up supplies. Two workers on level 2 are using Sawzall to cut duct work in corridor near 284 and 283 above ceiling in order to hang poly sheeting and make an enclosure for the fireproofing removal and keep it isolaataed from the rest of the building.

1000 2 Dickson workers placing sheet music from rolling shelves in Room 285A into bags and taping the bags close. PBS has general photo documentation of the sheet music disposed of.

1030 Workers break for lunch.

1115 Workers return to work.

1120 Three week look ahead schedule meeting with Todd, Corey (Dickson) and Dan (MM).

1200 Two Dickson workers are putting up poly-sheeting as critical in the corridor of room 283 and 284.

1220 6 workers inside level 3 containment removing the ceiling ductwork with a Sawzall and two lifts. The lifts are placed underneath of the larger prices of ductwork to help with safely lowering them. The sections are then cut up into smaller portions and bagged for load out.

1230 Two Dickson workers on level 2 using soft brushes and vacuums to clean the 3 grand pianos. Air is moving from skybridge through clean room into cleaning room and then into containment area, observed by the poly sheeting being pulled in the correct direction.

1330 Four workers observed on Level 2, cleaning pianos and prepping critical near fire proofing removal area.

1400-1500 Weekly construction meeting with project team.

1415 Workers decon out of containment and meet at job trailer for end of day meeting.

1430 Workers leave site for the day.

1515 MM and PBS leaving site. Doors are locked. Corey still on site will shut off generator.



| Asbestos Contractor: Dick | son | | | Project Name: Olympic So | outh Abatement & F | Repairs | |
|--|----------------------|--------------|---------|---|---------------------|--------------|-----------|
| PBS Site Observer(s): Clair Stensland | e Tsai, Mike Smith, | Toan Nguyen, | Peter | PBS Project No.: 40535.48 DES Project No.: 2021-19 | | Date: 10 |)/8/2021 |
| | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Personn | iel: | | _ | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status: LV LV2 fireproofing removal | | | |
| Workers | Yes No | Name: Core | y Foust | MM safe off LV2 risers in | 284 and add temp բ | oower on LV2 | |
| How Many? + 17 | | | _ | Other Personnel on Site: I | MacDonald Miller (N | ИM) | |
| Air Monitoring Personnel o | on site: PBS/Dicksor | ı | | Olympic Peninsula Constr Olympic South Exterior. S | , , | | orking on |
| | | | | | | | |

WORK DESCRIPTION: Housekeeping of work area with water mist and HEPA vacuums, load-out of asbestos-contaminated bagged waste materials from level 3, Olympic South Building. Continue preparation in Level 2 for fireproofing removal and conducting cleaning of pianos. MM safe off for Wood riser demo in Room 284 and run additional temporary power for negative air machines.

WORKER PROTECTION: 1/2 face respirator, Tyvek, hard hat, boots.

METHOD OF REMOVAL: Manual (wet methods) and Sawzalls

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. Dickson workers will be continuing work efforts in the Level 3 enclosure. Workers on level 2 continue prep for fireproofing removal and continue cleaning pianos and drums. Dickson has 17 workers on site plus Corey.

0700 All 9 workers inside the level 3 enclosure are currently involved with removing asbestos-contaminated debris from the work area. 4 workers are double bagging the debris and passing them off via the decontamination chamber to 5 workers who are transporting the bags to the 2nd FL skybridge to the forklift, where an operator and spotter will then take the bags to the disposal containers. The poly sheeting lined disposal containers are located Parking Lot A.

7 workers continue in the Level 2 enclosure. 3 of those workers continue with piano cleaning. 4 workers continue with preparation of 0284 with poly sheeting and also disposing of sheet music in 285.

1000 Work efforts continue as noted. Workers (4) on Level 2 are continuing to clean pianos and (3) conducting demolition in the south section of the building such as removing ceiling tiles, ceiling metal framing and ductwork for access above the ceiling. The sections are removed with Sawzalls, bagged, sprayed down with a Hudson sprayer then re-bagged into a second clean bag in decon area before being moved in a lined pushcart to the load out zone. Once the ceiling space was

| ITEMS OF CONCERN: None | |
|---|------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Level 2 and 3 | |
| | Olympic South LV 2/3 |
| | |

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date 10/8/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/8/2021 |
|---|-------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

exposed a worker began vacuuming up excess dust along the ceiling line. Good negative air pressure is indicated in both Level 2 and 3 work areas.

1030 - 1115 Dickson workers take a lunch break and resume work efforts.

1200 PBS walks through the Level 2 work area with Corey F to identify and mark items ok for disposal. Desks and chairs from Room 278 can be cleaned. Metal stools in Room 270 and 271 can be disposed. Red chairs with black framing pointed out for disposal, many chair cushions have tears to the foam seat and or the bottom carboard is damaged as well. PBS has documented these items pointed out for disposal.

1300 8 Dickson workers are conducting housekeeping of Level 3 in preparation for the weekend. The hallways and rooms are being vacuumed up, supplies are being organized and the remaining debris is being bagged.

1330 Four workers observed on Level 2, cleaning pianos and prepping critical near fire proofing removal area.

1340 2 Dickson workers on the second level are using HEPA vacuums to do detail cleaning on drums. The ACM waste in the clean room has been loaded out. 2 Dickson workers in room 284 picking up supplies and tidying the work area (MM has performed safe off for demolition of wood risers in 284).

1415 Workers are deconning out of containments and meet at job trailer for end of day meeting.

1430 Workers leave site for the day.

1515 PBS communicated to Corey F that all cleanable building furniture needs to be labeled with original locations before being moved for cleaning.

1520 MM and PBS leaving site. Doors are locked. Corey still on site will shut off generator.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/8/2021



| Asbestos Contractor: Dickso | on | | | | | Project Name: Olympic Sc | outh Abatement & F | Repairs | |
|--|---------------|--------------------|--------------|---------|----|--|---------------------|----------|-----------|
| PBS Site Observer(s): Claire Stensland | Tsai, Mike Sr | mith, ⁻ | Toan Nguyen, | Peter | | PBS Project No.: 40535.48 DES Project No.: 2021-192 | | Date: 10 | /11/2021 |
| | | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Personne | l: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: LV LV2 fireproofing removal | | | ood riser |
| Workers | Yes | No | Name: Corey | y Foust | | demo and load out | | | |
| How Many? + 31 | | | | | | Other Personnel on Site: N | MacDonald Miller (N | /M) | |
| Air Monitoring Personnel on | site: PBS/Di | cksor | 1 | | | Olympic Peninsula Constr Olympic South Exterior. So | ` ' | | orking on |
| | | | | | | | <u> </u> | | |

WORK DESCRIPTION: Housekeeping of work area with water mist and HEPA vacuums, load-out of asbestos-contaminated bagged waste materials, and demolish HVAC ductwork and framing from level 3, Olympic South Building. Demolish wood riser stairs and conduct cleaning of drums and pianos in Level 2

WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots.

METHOD OF REMOVAL: Manual (wet methods) and Sawzalls

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. Dickson addresses the site-specific policies for the numerous new people here today. Dickson workers will be continuing work efforts in the Level 3 enclosure. Workers on level 2 continue prep for fireproofing removal including wood riser demolition and continue cleaning pianos and drums. Dickson has 31 workers on site plus Corey.

0700 7 workers inside the level 3 enclosure are currently involved with removing the metal HVAC ductwork from the return plenum. 3 workers are double bagging the debris and preparing it for loading out. 2 workers are engaged in activities associated with loading out at the Level 2 skybridge, 1 of those workers is in the enclosure handing out bags, 1 worker in full fall protection gear is loading into the forklift container via the skybridge, and 1 is the forklift operator.

15 workers continue in the Level 2 enclosure. 4 of those workers are cleaning 9 drums in the cleaning room set up in art gallery 265 with HEPA vacuums, brushes, and dampened wipes. 7 workers are removing the wood risers in 284, 1 worker is cutting up chairs marked for disposal in 284 using power tools, and 1 worker is HEPA vacuuming the poly sheeting floor in 284A. PBS conducting daily air monitoring in level 2 and 3 inside and outside work areas and on HEPA exhaust from negative air machines.

| BUILDING/AREA/LOCATION |
|------------------------|
| |
| Olympic South LV 2/3 |
| |
| |

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date 10/11/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/11/2021 |
|---|-------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1000 Work efforts continue as noted before for piano/drum cleaning, chair disposal and wood riser demolition on level 2. Workers in Level 3 are cleaning up for lunch, they are checking the enclosure, organizing tools, and stock piling new material to load out after lunch.

1030 - 1115 Dickson workers take a lunch break and resume work efforts.

1145 PBS and a Dickson worker are photo documenting artwork from Rooms 264, 266, 269, 270 and 271 in need of review by occupants and college for instruction on disposal or cleaning.

1240 9 Dickson workers are removing wiring and metal framing from the student lounge and adjacent hallway on Level 3. 1 worker is going around taping up holes in the poly floor and picking up extra screws that are laying around. 5 Dickson workers cleaning up the area outside the work zone and doing loadout (this includes one forklift operator). Negative pressure remained good at both entrances to the 3rd floor throughout the day.

3 workers in Level 2 cleaning room cleaning drum stands. 1 worker using tip bin loading waste bags to cleaning room. Two workers in level 2 west skybridge to Olympic north HEPA vacuuming carpet. Two workers in Room 270 cutting metal stools marked for disposal into smaller size for load out.

1300 Dickson requests final visual of Taiko drums. 7 of 9 passed and have been microvac sampled. 2 drums require additional cleaning.

1350 6 workers in 284 demolishing wood risers and concealed duct work below.

1415 Workers are deconning out of containments and meet at job trailer for end of day meeting. PBS collecting remaining air samples for the day.

1430 Dickson and MM workers leave site for the day.

1520 Kim Allen with Pierce College picks up 5 Cisco WiFi nodes from PBS. WiFi nodes were recoved from level 3 prior to abatement.

1545 PBS leaving site. Doors are locked. Corey still on site will shut off generator.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/11/2021



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|------------------|--|---|---|---------------------|------|---------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 10/1 | Date: 10/12/2021 | | |
| | | | · | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Perso | nnel: | | | | | | |
| Project Manager Yes No Supervisor Yes No | | Summary Phase Status: LV3 abatement and load out LV2 fireproofing removal prep and piano/drum cleaning, wood riser | | | | | |
| Workers | Yes | No Name: Cor | ey Foust | demo and load out | | | |
| How Many? + 30 | | | | Other Personnel on Site: | MacDonald Miller (N | MM) | |
| Air Monitoring Personne | on site: PBS/Dic | kson | | Olympic Peninsula Consti Olympic South Exterior. S | | | king on |

WORK DESCRIPTION: Housekeeping of work area with water mist and HEPA vacuums, load-out of asbestos-contaminated bagged waste materials, on level 3, Olympic South Building. Continue demolishing wood risers, finish cleaning of drums, and continue pianos in Level 2. Extend clean room Level 1.

WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots.

METHOD OF REMOVAL: Manual (wet methods) and electric tools

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. Dickson workers will be continuing work efforts in the Level 3 enclosure. Workers on level 2 continue prep for fireproofing removal including wood riser demolition and continue cleaning pianos and 2 remaining drums. Dickson has 30 workers on site plus Corey F.

0700 2 workers inside the level 3 enclosure are currently laying a poly sheeting drop cloth to floor in the Student Lounge for the purpose of cleaning the ceiling components of the now exposed opened ceiling. 2 workers near the load out area are wiping down bags with wet cloths and a Hudson style sprayer. They are also vacuuming up debris on the ground with a HEPA vacuum. 2 workers in a south side classroom are removing a projector screen with drills, prybars and 2 lifts. 2 workers are engaged in activities associated with loading out at the Level 2 skybridge (load out will also involve items from the Level 2 enclosure), 1 of those workers is in the enclosure handing out bags, 1 worker in full fall protection gear is loading into the forklift container via the skybridge, and 1 is the forklift operator.

11 workers continue in the Level 2 enclosure. 4 of those workers are cleaning the remaining 2 drums and 3 Baby Grand Pianos in the cleaning room set up in art gallery 265 with HEPA vacuums, brushes, and dampened wipes. 2 workers are wiping down metal chairs and tables in Room 278. 1 worker transporting bagged asbestos-contaminated debris down the hallway in a lined plastic cart. 5 Dickson workers disassembling the stage and associated ductwork with hammers, prybars and sawzaws. 1 worker in the hallway bagging debris.

| BUILDING/AREA/LOCATION |
|--------------------------------|
| |
| Olympic South Level 1, 2 and 3 |
| |
| |

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date 10/12/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/12/2021 |
|---|-------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

PBS is conducting air sampling within work areas, outside of work areas and in HEPA exhausts.

0730 PBS setting-up ambient air sampling around the building exterior at all 4 elevations.

0830 PBS continue inventory of contents to be disposed of in MIDI Lab Room 275

1000 PBS enter level 1 containment. Two workers extending level one clean room entry to accommodate more people suiting up. PBS will run a PCM clearance when finished.

Poly storage room (90% clean room) constructed on west level 2 skybridge between Olympic north and south used for storing pre-cleaned furniture until the final detail clean in the cleaning room. After the final clean items will be loaded into the final clean room for sample collection and storage while waiting for lab results before being loaded out. Currently the pre cleaned storage room has tables and chairs from room 278 and music stands, piano benches and a few tables from other various locations on level 2. All contents have label of original location.

3 workers in cleaning room detain cleaning interior of baby grand pianos, supervisor for area communicated they should be ready for PBS visual after lunch. One worker in room 271 labeling contents with room number for when items get moved. Most items in rooms 285A, 285, 288, and 290 have been labeled with location. One worker in room 278 wet wiping and HEPA vacuuming tables and chairs that are then transported to the 90% clean room storage before final detail clean. 1 worker in load out area of fire proofing removal area double bagging waste before loading into tip bin and rolling to main load out to skybridge to cascade. 7 workers in room 284 continue demolition of wood risers and ductwork underneath. Workers use sawzalls and spud bars for removal before placing in bags.

7 Dickson workers inside the 3rd floor cleaning the work areas with HEPA vacuums and laying down drop cloths to prepare for cleaning the southern classrooms and student lounge. The drop cloths are secured to the ground with adhesive glue and duct tape.

1027 Workers decontaminate out of Level 2 and 3 containments for lunch. PBS collect level 2 IWA sample in hall near 264 before exiting containment.

1030 - 1115 Dickson workers take a lunch break and resume work efforts.

1120 Worker communicates clean room extension into Level 1 will be ready at noon for clearance. Le May swapping out one ACM waste trailer in parking lot A.

1200 PBS initiates a clearance air sample in the Level 1 clean room extension. PBS enters the Level 2 enclosure in order to conduct a visual inspection on the 2 remaining Taiko drums (from the group of 9) and the 3 baby grand pianos. All drums have passed the inspection. All baby grand pianos need a little more detail cleaning.

The negative air pressure in all work areas continues to be satisfactory.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/12/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/12/2021 |
|---|-------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1230 Two workers in 278 continue HEPA vacuuming and wet wiping tables and chairs before moving them to the 90% clean room. 8 Dickson workers in Room 284 are working on cleaning up the demolished risers.

1300 PBS conduct a visual inspection on the taiko drums stands (5) all passed.

1310 PBS conduct a visual inspection on baby grand piano foot pedals, all 3 passed.

1320 PBS is conducting micro vacuum clearances on contents that had passed the visual inspection.

1530 Communicate to Corey clearance sample for clean room extension on level 1 entry passed.

1540 MM leaving site.

1545 Corey receives Abatix delivery dropped off. PBS finish smartsheet upload of artwork for review. Notify Charlene W. art photos are ready for review.

1615 PBS off site. Doors locked, Corey still on site will shut off generator.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/12/2021



| Asbestos Contractor: Dick | kson | Project Name: Olympic South Abatement & Repairs Smith, Toan Nguyen, Peter PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 10/13 | | |
|---|---|---|---------------|--|
| PBS Site Observer(s): Claire Stensland | re Tsai, Mike Smith, Toan Nguyen, Peter | | | |
| | | Page 1 of 2 Time | 0600 am | |
| Contractor on Site Personn | nel: | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: LV3 abatement and loa | d out | |
| Workers | Yes No Name: Corey Foust | LV2 Piano/contents cleaning and finish wood ri | se demolition | |
| How Many? + 30 | | Other Personnel on Site: MacDonald Miller (MN | <u>/</u> /) | |
| Air Monitoring Personnel o | on site: PBS/Dickson | Olympic Peninsula Construction (OPC) reclad co Olympic South Exterior. Separate project and jo | 9 | |
| | | | | |

WORK DESCRIPTION: Housekeeping of work area with water mist and HEPA vacuums, load-out of asbestos-contaminated bagged waste materials, on level 3. Level 2 - Complete demolishing wood risers in 284, finish cleaning of Baby Grand pianos, initiate cleaning of upright pianos. Load out of waste bags from Level 2 is transported a loaded out of LV1 today.

WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots.

METHOD OF REMOVAL: Manual (wet methods) and electric tools

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. Dickson workers will be continuing work efforts in the Level 3 enclosure. Workers on level 2 continue piano cleaning and complete demolition of elevated flooring sections. Dickson has 30 workers on site plus Corey F.

0700 3 workers are outside of the Level 2 and 3 enclosure conducting activities associated with loading out bags from the work areas. These workers are also performing housekeeping of the stairway and ground around the forklift.

Work efforts continue in the Level 3 enclosure, 3 workers in room 331 are removing gypsum wallboard and fiberglass insulation from the north wall with a prybar water misting for dust control. A poly sheeting drop cloth has been placed on the floor to catch demolition debris and make cleanup easier. 3 Dickson workers are removing the remaining gypsum wallboard around the exterior of the restrooms and adjacent archway. 2 Dickson workers are setting up a drop cloth in the north hallway.

Work efforts continue in the Level 2 enclosure, 4 workers are bagging-up debris associated with the demolition of the wood risers in Room 284, demolition of the risers will continue following the cleaning in progress. 4 workers are in Room 278 continuing with dismantling of student desks and tables. 4 workers are in the cleaning room finishing detail cleaning of the 3 Baby Grand pianos.

Material being loaded-out from the work areas is being transported to the lockable containers located Parking Lot A.

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Level 2 and 3

Olympic South Level 1, 2 and 3

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date 10/13/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/13/2021 |
|---|-------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

PBS is conducting air monitoring in all affected areas.

0800 PBS is conducting a visual inspection of the 3 Baby Grand pianos inside of the cleaning room. The pianos are deemed to be adequately cleaned and PBS will now follow up with microvac sampling.

0845 PBS has completed the microvac sampling of the pianos and Dickson has wrapped the pianos in new blankets and are moving them to clean room by 7 workers.

0900 7 Dickson workers are involved with moving 6 upright pianos into the cleaning room from various locations of LV2.

0930 2 workers are loading out asbestos-contaminated material bagged from wood riser demo through first floor of Olympic South. 3 workers inside room 284 remove the final sections of the stage with a sawzall and pry-bars, 1 of the workers is cleaning up the remaining material with a shovel. 3 workers are preforming load out. One worker carries the bag to a decon room 1 worker places the bag into a clean bag and sprays down the inside with water and then seals the bag. The final worker wheels a cart of ACM bags downstairs. 3 workers inside 278 wiping down chairs and desks for a primary cleaning before they are moved to the 90% clean room. 2 workers cleaning upright pianos with HEPA vacuums. 1 worker and supervisor are rolling sticky plastic from the cleaning room to the temp clean room on the carpet to prevent fiber release when transported. Workers on Level 3 continue with wallboard demolition and subsequent cleaning.

1030 3rd floor Olympic south: 4 workers below the floor picking up general garbage and taking the insulation off of pipes. 6 workers are deconing out for lunch. Negative pressure is good throughout, all entryways are drawing outside air in. 1 worker outside on the stairs between floor 3 and 2 spraying down the stairs with a Hudson and wiping them off for general housekeeping. PBS communicate Yamaha keyboards in Room 275 have been inventoried and may be disposed.

1030 – 1115 Dickson workers take a lunch break and resume work efforts.

1130 Workers in Room 284 have completed the demolition of the entire elevated floor and are bagging up the debris.

1430 PBS rep Gregg Middaugh departs the site. Dickson workers are departing the site.

1510 MM leaving site.

1600 PBS off site. Doors locked, Corey still on site will shut off generator.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/13/2021



| Asbestos Contractor: Dickson Project Name: Olympic South Abatement & Repairs | | | | Repairs | | | | |
|--|-------------------|------------|---|---------------------|---|---------------------|---------|-----------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 10/1 | | | /14/2021 | | |
| | | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Personn | el: | | | | | | | |
| Project Manager | Yes No | Supervisor | Yes | No | Summary Phase Status: L' | V3 abatement and lo | oad out | , |
| Workers Yes No Name: Corey Foust | | | LV2 Piano/contents clean material | ing & bag wood rise | er/platform de | molition | | |
| How Many? + 31 | | | | | Other Personnel on Site: | MacDonald Miller (N | ИM) | , |
| Air Monitoring Personnel o | n site: PBS/Dicks | on | | | Olympic Peninsula Consti Olympic South Exterior. S | , , | | orking on |
| | | | | | | | | |

WORK DESCRIPTION: Housekeeping of work areas with water mist and HEPA vacuums, load-out of asbestos-contaminated bagged waste materials, removal of mechanical components in the supply plenum on level 3. Level 2 – Bagging of demolished wood risers and platforms from Rooms 283/284. Load out of waste bags from Level 2 is transported out via Level 1 today.

WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots.

METHOD OF REMOVAL: Manual (wet methods) and electric tools

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. Dickson workers will be continuing work efforts in the Level 3 enclosure. Workers on level 2 continue upright piano cleaning and dismantling of

0700 1 worker is stationed in the stairwell wiping down the stairs with clean dampened cloths.

demolished riser and platform floor sections in Room 0284. Dickson has 31 workers on site plus Corey F.

10 workers are on Level 3. 3 workers are in the Student Lounge wiping down exposed ceiling components. Dampened rags are being used for wiping the ceiling areas and the spent rags are routinely changed out for clean rags. 1 worker is adjusting the poly sheeting walls and floors in the north corridor. 5 workers are the north side of the building in the below-floor air supply plenum wet wiping and HEPA vacuuming floors, walls, beams, and other surfaces. An approximate 3-foot by 3-foot section of carpet has been removed in room 325 so that the workers can do a trial run on cleaning the mastic off the mechanical floor. PBS initiates inside and outside of work area air sampling in affected areas.

12 workers are on Level 2. 1 worker is dismantling the counter from the south side of Room 0283 for access to duct work. 5 workers are Room 0284 dismantling and bagging materials from the demolished risers and platforms. 3 workers inside of 271 are removing Wi-Fi routers and acoustic ceiling panels that are suspended below the squares of the waffle ceiling. There are 3 workers inside of the cleaning room HEPA vacuuming and wet wiping 6 upright pianos. PBS initiates inside and outside air sampling in affected areas.

| BUILDING/AREA/LOCATION |
|--------------------------------|
| Olympic South Level 1, 2 and 3 |
| |
| |
| |

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date 10/14/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/14/2021 |
|---|-------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Material being loaded-out from the work areas is being transported to the lockable containers located Parking Lot A.

0815 PBS is going through Level 2 identifying chairs and stools for disposal. Dickson moves items marked for disposal to Room 275 to dismantle and wrap. Also in Room 275, 1 Dickson worker is wrapping acoustic ceiling panels that have been removed from below the waffle style concrete ceiling.

0900 On level 3, 1 worker is at the top of the stairs carrying bagged ACM material to the load out area. 2 Dickson workers in room 329 bagging fiberglass pipe insulation. 3 workers inside the student lounge wiping off metal beams and metal supports with wet wipes and HEPA vacuums with the brush attachment in the ceiling. 6 workers in the supply plenum below the floor removing pipe insulation and vacuuming the area.

In Room 284, 3 Dickson workers bagging the final portion of the stage and associated insulation. 2 workers are inside of Room 271 using scrapers and wet cloths to clean off the adjustable art tables.

1030 - 1115 Dickson workers take a lunch break and resume work efforts.

1130-1230 PBS attends zoom meeting with Charlene W and John (MM) to review smartsheet inventory process.

1200 One worker operating forklift transporting waste bags from cascade skybridge loadout window to parking Lot A dumpster. 1 worker is on the stairs between the 2nd and 3rd level HEPA vacuuming of the stairs and removing the top layer on the sticky board.

On Level 3, 2 Dickson workers in the student lounge continuing to HEPA vacuum and wipe down the ceiling metal support structure. 4 Dickson workers continue in the supply plenum vacuuming the space. 2 Dickson workers bagging removed asbestos-contaminated material. There is good negative pressure in the site. Both entryways are pulling air into the containment.

On level 2, supervisor communicates they are ready for visual of 3 upright pianos from 286, 277 and 276. All 3 pianos were found to need some more attention; the exteriors are generally clean, however the inside - brass, wood, and strings needs more work. 3 workers going for a second round of cleaning using rags, brushes, water and a HEPA vacuum.

1330 Work continues Level 2 and 3 as noted. Fungal growth was observed on the south perimeter wall of Room 284 where the metal ductwork had previously been. Cleaning of the standing art tables in Room 271 is taking approximately 1.5 to 2 hrs. EA. Workers in the Level 3 supply plenum are now removing wiring there are still 2 runs of insulated pipe in this space to be removed.

1330-1450 PBS attends weekly construction meeting with project team.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/14/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/14/2021 |
|---|-------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1415 Dickson workers deconning out of work areas.

1430 Dickson workers depart the site

1510 MM leaving site.

1500-1700 PBS imputing comments on smartsheet. PBS off site. Doors are locked.

On-site analysis of air samples collected so far by Phase Contrast Microscopy have not indicated concentrations of concern.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/14/2021



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|---|----------------------|--------------|---|---|-----------------------|---------|----------|--|
| PBS Site Observer(s): Claire Stensland | e Tsai, Mike Smith, | Toan Nguyen, | Peter | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 10/1 | | | /15/2021 | |
| | | | | Page 1 of 3 | Time | 0600 | am | |
| Contractor on Site Personn | iel: | | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status: | LV3 abatement and lo | oad out | | |
| Workers | Yes No | Name: Corey | y Foust | LV2 Piano/contents clea | aning and prep work a | ireas | | |
| How Many? + 31 | | | _ | Other Personnel on Site | : MacDonald Miller (N | /M) | | |
| Air Monitoring Personnel o | on site: PBS/Dicksor | 1 | | Olympic Peninsula Cons Olympic South Exterior. | , , | | king on | |
| | | | | | | | | |

WORK DESCRIPTION: Housekeeping of work areas with water mist and HEPA vacuums, load-out of asbestos-contaminated bagged waste materials, removal of mechanical components and cleaning in the supply plenum on level 3. Level 2 – Cleaning and preparation of floors in Rooms 283/284, continued piano cleaning. Load out of waste bags from Level 2 is transported out via Level 1 today WORKER PROTECTION: 1/2 face respirator, Tyvek, hard hat, boots. METHOD OF REMOVAL: Manual (wet methods) and electric tools

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. Dickson workers will be continuing work efforts in the Level 3 enclosure. Workers on level 2 continue upright piano cleaning and perp with poly sheeting Rooms 0284/0283. Dickson has 31 workers on site plus Corey F.

0700 On Level 3, 2 workers are in the supply plenum (below floor) removing wiring and pipe insulation along the south side of the building 3 Dickson workers are inside the student lounge wiping down ceiling support beams with wet rags and HEPA vacuums. 4 Dickson workers are in the supply plenum (below floor) on the north side of the building HEPA vacuuming and wet wiping the surfaces. 2 Dickson workers, and 1 supervisor managing supplies throughout the floor, removing asbestos contaminated material. PBS conducts air sampling in affected areas.

12 workers are on Levels 1 and 2. 1 worker is dismantling the chairs and stools marked for disposal in corridor near 0181. There are 3 workers inside of the LV2 cleaning room HEPA vacuuming and wet wiping 6 upright pianos. 2 workers are prepping Rooms 0283 and 0284 for fireproofing removal. 4 workers are in 271 using adhesive remover, water, and rags to clean adjustable art tables. PBS initiates inside and outside air sampling in affected areas.

0715 PBS communicated to Corey F that the maintenance building contents in the exterior clean room near 168 have passed microvac sampling and may be returned.

| BUILDING/AREA/LOCATION |
|--------------------------------|
| Olympic South Level 1, 2 and 3 |
| |
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| |

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date 10/15/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/15/2021 |
|---|-------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0730 2 workers loading out asbestos contaminated debris from the first floor load out area into the forklift waste container, one worker is operating the forklift. Material being loaded-out from the work areas is being transported to the lockable containers located in Parking Lot A.

0815 On Level 2, Dickson detached all the synthesizers and mixers from the tables in the MIDI lab. PBS is documenting all the contents in the Smartsheet Inventory.

0845 On level 2, PBS is conducting a visual insection for the upright pianos from 276, 277, and 286. All needed a little extra detailing.

0915 PBS reinspects the previously noted pianos. The cleaning is found to be satisfactory. PBS is collecting microvac clearance samples for each of the pianos - 1 interior and 1 exterior for each piano. Pianos stored in Level 2 clean room while waiting for sample results.

0940 PBS and 3 MM workers inside Level 3 reviewing the fire system wiring throughout the floor and identifying disposable sections. 3 Dickson workers in the student lounge wiping down walls with wet wipes.

1030 – 1115 Dickson workers take a lunch break and resume work efforts. PBS document contents in 168 cabinets and Kitchen cabinets for disposal.

1130 3 workers on level 1 move desks and chairs PBS marked for disposal to Room 181 for breakdown and bagging.

1200 PBS enters the level 2 enclosure. Dickson workers continue to prep 0283/0284. Workers in 271 continue with using adhesive remover, water, and rags to clean adjustable art tables. Workers in the cleaning room cleaning 3 upright pianos from 273, 274, and 287.

On Level 3, PBS and MM are entering the work area to mark off the fire system. Conduits and wires spray painted red will be hot and staying in place, green wires are going to be removed (mainly lighting). 1 Dickson worker continues in the supply plenum on the north side. Workers in the student lounge continuing to wipe down the flat surfaces.

There is good negative pressure indicated in the Olympic South Building. All entryways are pulling air into the enclosures.

1245 2 Dickson workers, 1 MM worker and PBS continuing to mark off conduits for removal on Level 3.

1345 PBS confirms that the maintenance building contents have been returned in boxes to the maintenance building.

1415 Dickson workers deconning out of work areas.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/15/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/15/2021 |
|---|-------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1430 Workers leaving site. Corey and MM leaving site. Generator shut off and doors locked.

1445 PBS leaving site.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/15//2021



| Asbestos Contractor: Dickson Project Name: Olympic South Abatemet | | | | tement & Re | pairs | | | |
|---|-------------------------|----------------|---------------|--|---|----------------|-----------|-----------|
| PBS Site Observer(s): Claire Stensland | e Tsai, Mike Smith, Toa | an Nguyen, Pet | ter | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 10/18 | | | 0/18/2021 | |
| | | | | Page 1 of 2 | | Time | 0600 | am |
| Contractor on Site Personn | el: | | | | | | | |
| Project Manager | Yes No S | Supervisor ' | Yes No | Summary Phase | Status: LV3 abate | ment and loa | d out | |
| Workers | Yes No N | Name: Corey Fo | oust | LV2 Piano/conte | ents cleaning, Leve | l 1 contents | disposal | |
| How Many? + 28 | | | | Other Personnel | l on Site: MacDona | ald Miller (MN | M) | |
| Air Monitoring Personnel o | n site: PBS/Dickson | | | | ula Construction (C Exterior. Separate p | | | orking on |
| | | | | | | | | |

WORK DESCRIPTION: Housekeeping of work areas with water mist and HEPA vacuums, load-out of asbestos-contaminated bagged waste materials, cleaning of ceiling areas and cleaning in the supply plenum on level 3. Level 2 – Cleaning pianos/contents

Load out of waste bags from Level 2 is transported out via Level 1 today. Level 1, disposal of kitchen contents.

WORKER PROTECTION:1/2 face respirator, Tyvek, hard hat, boots.

METHOD OF REMOVAL: Manual (wet methods) and electric tools

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. Dickson workers will be continuing work efforts in the Level 3 enclosure. Workers on level 2 continue piano and contents cleaning. Dickson has 28 workers on site plus Corey F.

0630 2 workers are on the roof replacing prefilters on the negative air machines.

0700 Level 1: 3 workers are outside of the decontamination chamber loading disposal bags into the metal container on the forklift. 2 workers are inside the work area transporting bags to the three outside workers. 2 workers are cutting up and bagging the chairs and stools marked for disposal in Room 0181. 1 worker is in Room 168 bagging up contents from built-in casework approved for disposal.

Level 2: 3 workers continue to detail clean upright pianos. 2 workers in 271 are using paint scrapers and adhesive remover to continue to clean adjustable art tables.

Level 3: One MM and 3 Dickson workers tagging conduits (green is for demo, red stays) throughout the floor above the ceiling, and in the walls. 3 Dickson workers inside 326 cleaning off ceiling steel beams and wall cavities with HEPA vacuums and wet rags. One Dickson worker in the student lounge using a HEPA vacuum and wet wipes to clean the hard ceiling cavities. Two workers in the supply plenum using HEPA room vacuums to clean off the steel beams. 2 workers on the stairs between the floors bringing up supplies.

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Level 1, 2, and 3
Olympic South Building

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/18/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/18/2021 |
|---|-------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

PBS conducts air sampling in affected areas.

0830 PBS is on Levels 1 and 2 conducting activities associated with inventory and designating items for disposal.

0945 On level 3, 3 workers in the below floor supply plenum HEPA vacuum the steel beams. 2 workers in the student lounge are using wet rags and HEPA vacuums to wipe down the room. 2 Dickson workers are inside the Men's Restroom using HEPA vacuums with brush attachments to clean the walls and ceiling. 2 workers are in Room 326 using wet rags and HEPA vacuums to clean the ceiling. Workers are preparing for test cleaning of the floor square in room 325.

1030 – 1115 Dickson workers take a lunch break and resume work efforts.

1200 Work on Level 1 continues as noted. 2 additional workers disposing of kitchen contents.

Workers in the level 2 enclosure continue as noted. Additionally, 1 worker is now Room 270 prepping the space for cleaning of easels. PBS communicates the glass top tables (39) in this room are approved for disposal. Dickson requests an inspection of the remaining pianos, 2 of the 3 pianos are found to be clean, 1 needs a little more attention.

Work on Level 3 continues as noted.

PBS continues to go through Levels 1 and 2 conducting activities associated inventory and designating items for disposal.

All entryways are visibly pulling air into the enclosures.

1215 PBS reinspects the 3rd piano. Visual satisfactory.

1300 PBS microvac samples the 3 cleaned upright pianos on Level 2.

1400 The 2 workers in the Level 1 kitchen have completed bagging of contents for disposal.

1415 Dickson workers deconning out of work areas.

1430 Workers leaving site.

1445 Corey and MM leaving site. Generator shut off and doors locked.

1515 PBS leaving site.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date 10/18/2021



| | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|---|---|---|--|--|--|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | Date: 10/19/21 | | | |
| Stensland, Cameron Budnic | ck | Page 1 of 2 Time | 0600 am | | | |
| Contractor on Site Personne | el: | | | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: Level 3 Demo and cleaning of asbestos- contaminated materials in Olympic South, Level 1 and 2 contents | | | | |
| Workers | Yes No Name: Corey Foust | cleaning | | | | |
| How Many? +27 | - | Other Personnel on Site: MacDonald Miller (MM) | | | | |
| Air Monitoring Personnel o | n site: PBS/Dickson | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | |
| NORK DESCRIPTION : Mor | rning training regarding scaffolding. Level 1: Cont | inued bagging-up contents approved for dis | sposal. Level 2: Continued | | | |
| piano cleaning, contents dis | sposal, begin scaffold set-up. Level 3: GWB ceiling | demolition, cleaning of supply plenum | | | | |
| WORKER PROTECTION: 1/2 | ź face respirator, Tyvek, safety boots, hard hat | | | | | |
| | trace respiration, Tyron, salety 200ts, mare mat | | | | | |

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson has 27 workers on site plus Corey F.

0630 Dickson is offloading the scaffolding with their forklift from a flatbed truck for use on the second floor. 1 worker is operating the machinery and 2 workers are spotting.

0645 -0840 11 Dickson workers are attending a scaffolding safety orientation provided by one PCI employee.

0700 On level 2: Workers are loading in scaffolding to Rooms 0283 and 0284 which will be erected and utilized for removing the suspended ceiling, and abating fireproofing and overspray from the metal corrugated ceiling, steel beams, mechanical, electrical, and plumbing items in the spaces. The suspended ceiling tiles and associated grid have been removed from Room 284A and the south corridor, outside 283 and 284.

Level 3: 8 workers are in the enclosure - 3 workers remove flap from decon chamber to access remaining gypsum wallboard (GWB) ceiling in north corridor for demolition. 2 workers going below floor in the supply plenum accessed from room 328 for cleaning of the space via wet wiping and HEPA vacuuming. 3 workers are demolishing the GWB ceiling in the northeast corridor.

| ITEMS OF CONCERN: None | |
|--|--|
| CHANGES IN SCOPE: None | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos-contaminated building materials from Levels 1/2/3 | Pierce College, Fort Steilacoom. Olympic South Building - Levels 1/2/3 |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 10/19/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/19/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | · | |

1000 Level 1: 2 workers loading out asbestos-contaminated debris. 1 worker is inside room 181 sweeping the floor and cleaning the general work area. 2 workers in room 168 bagging various contents marked for disposal.

Level 2: 2 workers in 284 assembling scaffolds. There are 3 workers in the cleaning room moving the piano designated for disposal from 277 back into the enclosure. Piano from room 277 has damaged strings and has been approved for disposal from the college. These workers are also cleaning the next 3 upright pianos. There is 1 worker in 271 continuing with the dismantling of the 39 glass-top tables approved for disposal.

Level 3: Demolition continues as noted of the GWB ceiling in the north corridor. Demolished ceiling materials are being bagged-up and staged for disposal. Work continues as noted cleaning in the supply plenum accessed from Room 328.

1030-1115 Workers break for lunch and return to work.

1150 2 electricians entered Level 3 to check and verify safe off of the tagged conduit. 3 workers are laying down new poly sheeting floor to reestablish the decontamination chamber after removing the GWB ceiling. 2 Dickson workers are in the Men's Restroom wet wiping and HEPA vacuuming out wall cavities. 4 workers are in 325 wet wiping and HEPA vacuuming above ceiling.

1200 PBS enter the Level 2 enclosure. There are 2 Dickson workers in 270 dismantling and bagging glass top tables. PBS labeled all 18 easels to be disposed, as well as the 20 adjustable easel table hybrids (in 271) to be disposed.

1300 There are now 4 Dickson workers in Room168 disposing of contents labeled to be disposed of.

1330 2 MM workers walking through Level 1 & 2, taking notes about the area and electrical makeup of each floor. There is 1 semi-completed mobile scaffold in Room 283 and 2 semi-completed scaffolds in Room 284. There is good negative air pressure indicated from the south music rooms containment to keep the fireproofing removal area contained from the rest of level 2.

1400 2 workers inside Room 270 continue disposing contents. PBS notified Dickson of additional contents approved for disposal in 270.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Dickson and MM workers off site for the day.

1600 PBS departs the site; all areas are secured.

On-site air samples by PBS collected yesterday did <u>not</u> indicate levels of concern.

Signature:

Name: Mike Smith

Date: 10/19/21



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|--|--|---|---|----------------|------|-----------|
| PBS Site Observer(s): Cla Cameron Budnick | s): Claire Tsai, Toan Nguyen, Peter Stensland, | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 10/20/2 | |)/20/21 | | |
| | | | <u>.</u> | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Persor | nnel: | | <u>.</u> | | | | |
| Project Manager Yes No Supervisor Yes No Workers Yes No Name: Corey Foust | | Summary Phase Status: Level 3 Demo and cleaning of asbestos- contaminated materials in Olympic South, Level 1 and 2 contents cleaning. | | | | | |
| | | | | | How Many? + 26 | | |
| Air Monitoring Personnel | on site: PBS/Dickson | 1 | | Olympic Peninsula Cons Olympic South Exterior. | | | orking on |

WORK DESCRIPTION: Level 1: continued dismantling of furniture and casework and contents disposal. Level 2: Continued scaffold set-up in 0283/0284, contents disposal and piano cleaning. Level 3: cleaning in supply plenum Continued bagging up removed materials, removal of conduits. WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson has 26 workers on site plus Corey F.

0700 Level 1: 6 workers are in room 168 dismantling, bagging, and disposing of furniture and contents approved for disposal.

Level 2: 5 workers continue to erect scaffolding towers in Rooms 0283 and 0284. Two towers in room 284 and one in 283 for removing the ceiling tiles, grid, fireproofing, and cleaning the spaces above. 1 worker is in Room 271 dismantling adjustable tables and 2 workers are in 270 dismantling and bagging wooden shelfs and cabinets. 3 workers continue cleaning upright pianos in cleaning room.

Level 3: 1 worker wiping up dust in hallway near entry. 1 worker is in the student lounge removing conduit demarcated for removal. 1 worker is cleaning and wiping down plastic floor sheeting in student lounge. 2 workers are HEPA vacuuming and wet wiping ceiling cavity in rm 325. 4 workers HEPA vacuuming and wet wiping in the supply plenum (below floor) accessed from Room 323. 1 worker is removing tagged conduit in the Men's Restroom.

0930 Level 2: PBS conducts a visual inspection on 3 (of 6) upright pianos. All 3 needed more detail cleaning. Dickson anticipates being ready for another inspection after lunch.

| ITEMS OF CONCERN: None | |
|--|---------------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Building - Levels 1/2/3 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Michal Mmh

Date: 10/20/21 Name: Mike Smith



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/20/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0945 PBS Project Manager Gregg Middaugh on site.

1000 1 worker is loading out bagged debris from Rooms 270 & 271 through the first floor to forklift bin to be transported to container in parking lot A.

1030-1115 Workers break for lunch and return to work.

1200 Level 1: 5 workers are in Room 168 removing bagged materials for load out.

Level 2: Work efforts continue as noted. PBS reinspects the 3 (of 6) pianos at Dickson's request, all are determined to be sufficiently clean. PBS collect microvac samples for these 3 pianos, 3 pianos still remain to be cleaned. Scaffolding erection continues in Rooms 283 and 284. Dickson anticipates beginning ceiling tile removal in these areas tomorrow morning.

Level 3: 2 workers in entry hallway collecting conduit and bending to fit in ACM bags for disposal. 2 workers in Room 326 are removing tagged conduit from ceiling. Removal is being done with Sawzalls, drills, and clippers. In Room 325 there are 2 workers HEPA vacuuming server floor. Room 324 has 3 workers, 1 removing tagged conduit from ceiling, 1 HEPA vacuuming and wet wiping the ceiling, and the last is HEPA vacuuming and wet wiping the server floor. Room 323 has 2 workers HEPA vacuuming server floor underneath. Room 334 has 1 worker removing tagged conduit from ceiling.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Dickson and MM workers off site for the day.

1500 Corey leaving site.

1600 PBS shuts off generator and departs site; all areas are secured.

Signature:

Name: Mike Smith Date: 10/20/21



| Asbestos Contractor: Dickson | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|---------------------|---|--|-----------|----------------|-----------|
| PBS Site Observer(s): Claire Tsai, Peter Stensland, Mike Smith, Cameron Budnick | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 10, | Date: 10/21/21 | |
| | | _ | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nel: | _ | | | | |
| Project Manager Yes No Supervisor Yes No | | Summary Phase Status: Remove conduit Level 3. Remove ceiling tile/framework Level 2. Level 1 and 2 contents cleaning and disposal | | | | |
| Workers Yes No Name: Corey Foust | | Other Personnel on Site: | | | | |
| How Many? +29 | | _ | MacDonald Miller (MM) | | | |
| Air Monitoring Personnel | on site: PBS/Dickso | n | Olympic Peninsula Construct Olympic South Exterior. Sepa | . , | | orking on |

WORK DESCRIPTION: Level 1: contents disposal and load out of materials from level 2. Level 2: Removal of ceiling tile and framework from Rooms 0283 and 0284. Level 3: Removal of tagged conduit and general area cleanup.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson has 29 workers on site plus Corey F.

0700 Level 1: 2 workers are in Room 168 double-bagging materials brought down (via the elevator) from level 2. 1 worker is transporting bagged suspended ceiling materials from 283/284 to Level 1 with a rolling tipcart. The single-bagged asbestos-contaminated materials are placed on a clean poly sheeting drop cloth, double-bagged, then staged in the Clean Room for loading out.

Level 2: 2 Dickson workers continue inside the cleaning room (0265) wet wiping and HEPA vacuuming the remaining 3 upright pianos. 1 worker is in Room 271 using a Sawzall to cut wood art stands for bagging and disposal. 2 MM workers are going through both floors, workers replace some cover plates that had been removed from light switches to assure no hot wiring was exposed. 7 workers are in room 284 and 4 workers are in 283 removing ceiling tiles. Workers on top of the mobile scaffolding are removing the ceiling tiles and grid and placing them into a bag, handing the bag down to a worker midway on the scaffolding, then handed down to a worker on the floor who seals the bag shut with duct tape. 1 worker in the hallway by room 278 placing the ACM bags into a second bag, wetting down the inside and then sealing it shut with tape. The clean bag is loaded into a poly lined cart and rolled out to the loadout area.

| ITEMS OF CONCERN: None | |
|--|--|
| | |
| CHANGES IN SCOPE: Full interior gut of nonstructural building materials in | n order to most efficiently remove contaminated electrical system. |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Building - Levels 1/2/3 |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 10/21/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/21/21 |
|---|-------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | · | |

Level 3: 1 worker is in Room 330 removing tagged conduit from ceiling. 1 worker loading filled ACM waste bags into entry hallway for later removal. Immediately across from, Room 326, 1 worker is cutting tagged conduit from wall cavity. 2 workers in Room 324 are both HEPA vacuuming and wet wiping the ceiling cavity. Conduit needing to be altered to fit in bags is being placed in Rm 329 for now.

0920 1 MM inside the Level 1 enclosure closing electrical cover plates from previous sampling locations. 2 Dickson workers are inside the Room 168 loadout area securing poly sheeting. 2 Dickson workers bringing a cart filled with asbestos-contaminated bagged material down from the 2nd floor. One worker in Room 271 is disposing of student artwork approved for disposal into poly bags and spraying the inside down with a Hudson style sprayer before disposal. 8 workers are in Room 284 removing the metal ceiling grid.

1000 Hall near Room 323, 1 worker is removing tagged conduit. 1 worker is inside Room 323 HEPA vacuuming and wet wiping ceiling cavity. 1 worker Room 324 removing tagged conduit from ceiling cavity. 2 workers are bagging removed conduit and placing it in entry hallway.

1030-1115 Workers break for lunch and return to work.

1320 1 worker removing tagged conduit outside 328. 1 worker sweeping up debris throughout Level 3. Rm 323 has 4 workers, 2 are HEPA vacuuming and wet wiping, 2 are removing tagged conduit

1400 3 workers are inside the cleaning room wiping the baby grand piano moving stands with wet wipes. 6 workers are on the south side of Level 2 floor deconning for the end of the day after removing the remaining bagged asbestos-contaminated material from room 283 and 284. In Room 284. The workers are using the mobile scaffolding to hang poly along the walls up to the old ceiling line, all ceiling tiles and metal support structure have been removed from 284. In Room 283 approximately 20% of the ceiling tiles and metal lay in structure have been removed.

1400-1500 PBS attends weekly construction meeting with project team.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Dickson and MM workers off site for the day.

1600 PBS departs site; all doors locked. Corey still on site will shut off generator.

Signature: Mchall mile

Name: Mike Smith Date: 10/21/21



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|-------------------------------|---|---|--|--|---|--|
| PBS Site Observer(s): Claire Tsai, Peter Stensland, Mike Smith, Cameron Budnick | | • | | Date: 10 | 0/22/21 | | |
| | | | Page 1 of 2 | Time | 0600 | am | |
| nel: | | | | | | | |
| Yes | No | Supervisor Yes No | - | | ts cleaning an | d | |
| Yes | No | Name: Corey Foust | Other Personnel on Site: | | | | |
| | | | MacDonald Miller (MM) | | | | |
| on site: PBS/D | icksor | 1 | , · | | | orking on | |
| | re Tsai, Peter S nel: Yes Yes | re Tsai, Peter Stenslannel: Yes No Yes No | re Tsai, Peter Stensland, Mike Smith, Cameron nel: Yes No Supervisor Yes No | re Tsai, Peter Stensland, Mike Smith, Cameron PBS Project No.: 40535.4 DES Project No.: 2021-19 Page 1 of 2 Page 1 of 2 Summary Phase Status: I inventory. Level 3 demo Yes No Name: Corey Foust Other Personnel on Site: MacDonald Miller (MM) Olympic Peninsula Considerations | re Tsai, Peter Stensland, Mike Smith, Cameron PBS Project No.: 40535.488 DES Project No.: 2021-192 Page 1 of 2 Time PBS Project No.: 40535.488 DES Project No.: 40535.488 DES Project No.: 2021-192 Page 1 of 2 Time Summary Phase Status: Level 1 and 2 content inventory. Level 3 demo and abatement. Other Personnel on Site: MacDonald Miller (MM) Olympic Peninsula Construction (OPC) recladed. | PBS Project No.: 40535.488 DES Project No.: 2021-192 Page 1 of 2 Time 0600 Time 0600 Time 0600 Summary Phase Status: Level 1 and 2 contents cleaning an inventory. Level 3 demo and abatement. Yes No Name: Corey Foust Other Personnel on Site: MacDonald Miller (MM) Olympic Peninsula Construction (OPC) reclad contractor was provided in the contractor was provided in | |

WORK DESCRIPTION: Level 1: Contents disposal and continued double-bagging materials from Level 2. Level 2; Cleanup of removed fireproofing, contents cleaning/disposal, and casework demo in 285A. Level 3: removing poly sheeting exposing whiteboards and walls with electric conduits WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson has 28 workers on site plus Corey F.

0700 Level 1: Two workers are in Room 168 double-bagging materials brought down (via the elevator) from level 2 for disposal. The bags have waste generator labeling attached prior to loading out to the forklift metal bin. After the forklift bin is full, 2 workers (operator and spotter) transport the bags to the lined ACM container in Parking Lot A.

Level 2: Four workers are inside of the cleaning room wiping down and HEPA vacuuming the piano stands and engraved metal art pieces. 2 workers are in room 271 breaking down wooden shelving with a Sawzall and hammer for disposal. 5 workers are in room 284, 1 worker is vacuuming off the top level of the scaffolding, 1 worker is spraying the floor with a Hudson style sprayer, the other 3 workers are using squeegees with clean rags to clean up the dust and debris on the floor. Workers conducing housekeeping of area since work will be shifting to focus on the third floor. There is good negative pressure in room 283 and 284 as seen on poly sheeting hanging in hallway pulling toward the work area. 1 worker in 285A is bagging cabinet contents for disposal.

Level 3: Three workers are in 329 taping new poly sheeting visual barrier on windows after removing poly sheeting from walls to access to electrical components behind it for demo. 2 workers removing poly sheeting from walls to

| ITEMS OF CONCERN: None | |
|--|--|
| | |
| CHANGES IN SCOPE: Full interior gut of nonstructural building materials in | n order to most efficiently remove contaminated electrical system. |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Building - Levels 1/2/3 |
| 1 Sink with ACM undercoating, Room 285A | |

The individual signing certifies that the above information is correct and accurate.

Michal / mr

Name: Mike Smith Date: 10/22/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/22/21 |
|---|-------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

gain access to electrical components underneath 327. 2 workers are in Room 323 HEPA vacuuming below floor panels.

1000 Level 1: Three Dickson workers are in room 168, 1 is wiping down Dickson tools for loadout to be stored in a conex. 2 are placing ACM bags into second clean poly bags and spraying down the inside for loadout. Two workers are bringing down the material via the elevator in poly sheeting lined carts.

Level 2: One worker in Room 264 bagging contents approved for disposal. 2 workers in room 271 dismantling and disposing of metal cabinets with Sawzalls. 1 worker is in Room 285A disposing of casework contents. 3 workers are just outside of 284 wiping down surfaces with wet rags. PBS conduct visual inspection of (3) Roland XV2020 2x SRX Expansion components one worker in clean room available to spot clean as necessary.

Level 3: 4 workers removing poly sheeting off walls to reach conduit within in Room 329. All whiteboards from level 3 will be cleaned and returned to the college. Room 327 poly sheeting has been taken down to access walls for demo, 2 workers removing the doorframe. 2 workers are in Room 323 continuing with HEPA vacuuming below floor panels.

1015 The (3) Roland XV2020 2x SRX Expansion components have passed the visual inspection. PBS collect microvac samples.

1030-1115 Workers break for lunch and return to work.

1300 Level 2: 2 workers in room 285A dismantling the built-in casework. 4 workers are inside room 181 disassembling chairs with Sawzalls and bagging them for disposal. 1 worker is inside of Room 168 wiping down bags before loadout. 2 workers loading out bags to forklift through 168 exterior clean room. The casework including one ACM sink undercoating had been removed from 285A.

Level 3: 2 workers are in Room 325 taping poly sheeting to the floor after removal of wall poly. Outside of Room 326, 1 worker is taping down flooring. 1 worker is HEPA vacuuming up plastic throughout the floor. 3 workers resecure edge of floor poly with tape after wall poly sheeting has been removed. 1 worker is HEPA vacuuming floors throughout the space.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Dickson and MM workers off site for the day.

1500 Corey leaving site. PBS shuts off generator and departs site; all areas are secured.

Signature:

Name: Mike Smith

Date: 10/22/21



| Asbestos Contractor: Dic | kson | Project Name: Olympic South Abatement & Repairs | | | | |
|---|--|---|--|-----------------------|----------------|---------|
| PBS Site Observer(s): Clair Budnick | re Tsai, Peter Stensland, Mike Smith, Came | eron | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 10/25/ | | | 0/25/21 |
| | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nel: | | | | | |
| Project Manager | Yes No Supervisor Yes | No | Summary Phase Status: | Demo walls, Level 3. | Level 2 conter | nts |
| Workers | Yes No Name: Corey Foust | | cleaning and disposal. | | | |
| How Many? +29 | | <u>.</u> | Other Personnel on Site | : MacDonald Miller (I | MM) | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | |
| | | | | | | |

WORK DESCRIPTION: Level 1: Contents bagging for disposal. Level 2: wet wiping down the piano stands and drum stands contents disposal.

Level 3: Demolish and bag up wallboard and framing from eastside office block.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 Level 2: One Supervisor in on level 2 coordinating work and assisting with transport of ACM bags for load out. 2 workers are inside the cleaning room wet wiping piano stands and a drum stand. 2 workers are in room 270 dumping out paint onto a poly sheet to dry for disposal.

Level 3: Nine workers continue with demolition and bagging materials associated with the walls for rooms: 0320 -0322 and 330 - 0337. The GWB and fiberglass insulation has been demolished on Room 324, the metal wall framing remains. Workers are also demolishing and bagging up casework from Room 0337. The ACM bags are sprayed with water on the interior, then the exterior is wiped down before load out to from level 3 to level 2 cascade skybridge window into forklift bin. One worker removing ceiling mounted projector in Room 328.

0800 PBS internal safety meeting to review site hazards including but not limited to mobile scaffolding and wind/rain conditions on roof.

1000 Level 1: One worker is in Room 181 bagging disassembled tables for disposal. 2 workers cleaning off Wi-Fi nodes with wet rags.

Level 2: Two workers are in Room 270 breaking down cabinets and bookshelves for disposal.

| ITEMS OF CONCERN: None | | |
|--|---------------------------------------|--|
| CHANGES IN SCOPE: None | | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION | |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Building - Levels 1/2/3 | |
| | | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date 10/25/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/25/21 |
|---|-------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1030-1115 Workers break for lunch and return to work.

1130 Level 3: 15 workers observed throughout. Two workers are removing whiteboards with Sawzall in Room 323. 1 worker demolishing southeast wall in Room 330 with 4 more assisting in bagging associated material (drywall, conduit, insulation). In same room, 2 workers piling up wall supports and wrapping in poly sheeting. At the entrance to Room 330, 1 worker is cutting drywall off door frame. In Room 329 and 330 glass partitions in door frame are being removed. 4 workers are bagging, wetting, and double bagging waste to be removed.

1230 Dickson fuel truck onsite to refuel generators.

1300 Level 1: One worker attaching packing info to acm waste bags in Room 168 before stacking them for future loadout.

Level 2: Two workers are in Room 270 dismantling and bagging storage drawers for disposal. 2 workers are inside cleaning room wet wiping and HEPA vacuuming tables and chairs.

Level 3: One worker is cutting and removing whiteboards section in Room 329. 2 workers are wrapping whiteboards in poly sheeting for removal. 3 workers are bagging, wetting, and double bagging waste in 330. 1 worker in room 326 is cutting whiteboard for removal. 2 workers are pulling off and piling up whiteboard sections in Room 323. 2 workers are HEPA vacuuming up floor debris in Room 330.

1415 Workers decon out of work areas and meet at job trailer for end of day meeting.

1430 Dickson workers off site.

1445 Corey off site.

1505 PBS off site, doors are locked. Dan (MM) still on site will shut off generator.

Michael Mm M

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date: 10/25/21



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | |
|--|---------------|----------------|--|--|-----------------------|----------------|---------|
| PBS Site Observer(s): Claire Stensland, Cameron Budnic | | , Toan Nguyen, | , Peter | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 10/26/ | | | /26/21 |
| | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Personne | el: | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status: I | evel 1 stage for load | out. Level 2 C | ontents |
| Workers | Yes No | Name: Core | ey Foust | cleaning and disposal. Le | evel 3 demo and aba | tement. | |
| How Many? +28 | | | | Other Personnel on Site: | MacDonald Miller (N | /M) | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | |
| | | | | | | | |

WORK DESCRIPTION: Level 1: Bagged items staged for loadout. Level 2: Inventory of items to be disposed of, drying paint for disposal, and contents cleaning. Level 3: Continued wall demolition and bagging-up materials for disposal.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods and electric tools

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 Exterior: Three workers are involved with tasks associated transporting disposal bags from the forklift bin to the containers in parking lot A. 1 worker remains stationed in Parking lot A, sealing and closing full containers, and prepping new empty containers with poly sheeting, one operating forklift and one spotter.

Level 2: One worker deconning out of the first floor. 2 workers are inside the 2nd floor cleaning room, HEPA vacuuming off the rolling sheet music shelving from room 285A. 1 worker in room 271 dumping out paint onto a poly sheet to dry for disposal.

Level 3: 12 crew observed in containment. Two workers are removing drywall from the west wall shared by 323 and 324 with 1 worker helping move debris to area for staging to be removed. 2 workers are removing metal studs from the wall shared by 330 and 322. One worker removing whiteboard sections in Room 326. 2 workers are removing light fixtures from the ceiling in Room 329. 3 workers are spraying down bags and double bagging them to be removed. 4 workers assisting with load out from third floor to forklift bin at skybridge.

| BUILDING/AREA/LOCATION |
|--------------------------|
| Olympic South Levels 2/3 |
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The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 10/26/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/26/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0745 Rooms 285A, 285, 288, 290, 270, 271, and 272 have had all contents inventoried. PBS set aside items that need to be cleaned and put them into the MIDI Lab. PBS communicated to Dickson all remaining contents in those rooms may be disposed of.

1030-1115 Workers break for lunch and return to work.

1215 Level 2: Two workers in Room 270 disposing of general room contents and pouring out paint onto a poly drop cloth. 2 workers in the cleaning room wiping down chairs with wet rags and vacuuming them with HEPA vacuums. 1 worker is bringing down ACM bags to Room 168 to be staged for load out.

Level 3: Two workers bagging fiberglass wall insulation and bringing it to staging area to be prepped for load out. 4 workers are in Room 324 removing metal wall studs and bagging associated material (drywall, conduit, insulation). 1 worker is in Room 327 removing the metal ceiling grid. Room 329 2 workers bagging the glass from door frame. 1 worker in 330 area bagging sections of whiteboard. 3 workers at decon entrance who are wetting bags and double bagging waste before loadout. 3 workers in Room 325 bagging drywall that had been removed from all 4 walls. 4 workers assist with load out from third floor to forklift bin at skybridge. 2 Macdonald Miller workers walk though level 3 to look at conduit.

1230 PBS on Level 2 recovering hard drives from technology prior to disposal. PBS is tracking all hard drives to be destroyed. One worker disposing of contents from 285 all contents have been removed from 285A for either cleaning or disposal. 2 MM employees walk through LV1 and 2. 1 worker bringing large contents to room 270 where two workers break down contents to be bagged.

1300 One worker is bringing down ACM bags staging them in room 168 for load out.

1400 Two workers outside of the building bringing supplies from the conexs to Olympic South.

1415 Workers decon out of work areas and meet at job trailer for end of day meeting.

1430 Dickson workers off site.

1445 MM off site

1500 Corey off site.

1615 PBS off site, doors are locked. Generator is shut down.

Signature:

Name: Mike Smith Date: 10/26/21



| Asbestos Contractor: Dick | kson | Project Name: Olympic South Abatement & Repairs | | | |
|---|---|--|--|--|--|
| • • • | (s): Claire Tsai, Mike Smith, Toan Nguyen, Peter PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | | |
| | | Page 1 of 2 Time 0600 am | | | |
| Contractor on Site Personr | nel: | | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: Level 2 contents cleaning and disposal. | | | |
| Workers | Yes No Name: Corey Foust | Continued demolition Level 3. | | | |
| How Many? + 30 | | Other Personnel on Site: MacDonald Miller (MM) | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | |
| | | | | | |

WORK DESCRIPTION: Level 2; cleaning contents and wrapping individual items for disposal. Level 3; continued demolition of wall, removal of conduit, bagging up of demolished materials, loading out bagged materials

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson has 30 workers on site plus Corey F.

0630 PBS workers initiate ambient air sampling at north, south, east, and west elevations of the building.

0730 Level 2: One worker is bringing down ACM bags from Level 2 to room 168 with a hand truck. Bagged materials are being staged for loading out. 1 worker is in the cleaning room wet wiping 3 Wi-Fi routers from Level 3. One worker inside the midi lab 275 bagging up computers and other electrical components for disposal. The bags are then loaded into a cart and wheeled down to the first floor. 1 worker in room 271 bagging general room contents (tools and cabinets). Paint previously poured on the poly sheeting is still being dried out (Room 270/271) for disposal. A negative air machine is being utilized to accelerate the drying process. One worker in room 270 wrapping a cabinet in poly for disposal.

Level 3: PBS initiates air monitoring in Level 3. 3 workers are spraying down and double bagging drywall, insulation, conduit, metal studs, and portions of doors. 2 workers are wrapping whiteboard sections in poly sheeting for disposal in Room 329. In 330 (and offices 331-335 open area) 2 workers are wrapping door sections in poly sheeting for disposal. Room 328 has 2 workers removing metal ceiling grid and placing aside to be wrapped in poly sheeting for disposal. The Men's Restroom has 2 workers on removing metal studs from removed west wall. 2 more workers are bagging removed drywall, conduit, and insulation. 2 workers are housekeeping in the immediate area.

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 2/3

2 full 40 CY containers (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 10/27/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/27/21 | | | | | |
|---|------------------------------------|----------------|--|--|--|--|--|
| Abatement Contractor: Dickson | PBS Observers: Mike Smith | Page 2 of 2 | | | | | |
| | | | | | | | |
| WORK DESCRIPTION: See page 1 above | WORK DESCRIPTION: See page 1 above | | | | | | |
| | | | | | | | |
| OBSERVATIONS: | | | | | | | |

15 workers observed in the Level 3 work area, with 4 assisting outside containment moving bags down to level 2 for transport to container in parking lot A.

1000 Level 2: One worker in cleaning room HEPA vacuuming the sheet music shelving. One worker is in room 271 unscrewing a rolling cart with a drill for disposal. One worker is in Room 270 wrapping white boards for disposal. One worker in the midi lab 275 bagging computer and other electronic devices (approximately 50% have been disposed of).

Level 3: Four workers are in Room 327 pulling conduit from ceiling and cutting drywall. 5 workers are in Room 326 pulling studs and conduit and cleaning up drywall debris from demo of the Men's restroom demising wall. 4 workers are in the open floor area bagging studs and whiteboards. 4 workers are in Room 329 collecting conduit and metal ceiling grid. 17 workers observed.

1030-1115 Workers break for lunch and return to work.

1330 Level 2: Two workers are in the cleaning room wiping down the sheet music shelving. 1 worker is in the midi lab 275 dismantling tables for disposal, all other contents have been disposed of. 1 worker is in Room 270 dismantling metal cabinets and then wrapping them in poly sheeting for disposal.

Level 3: Six workers are in Room 327; 3 sweeping drywall debris from removed south wall, 2 wrapping drywall in poly sheeting, 1 securing poly sheeting to windows. 2 workers are the in Men's restroom HEPA vacuuming drywall debris and picking up drywall debris. 2 workers are packing and organizing extension cords, vacuums, and work materials in the section that was previously offices 331-335. 4 workers are sweeping the east half of the open floor. The Men's restroom wall (shared with 326) is now demolished and open to the whole floor. The entry wall (south) to Room 327 had drywall and studs removed. 14 workers observed.

1345 Four workers loading out ACM bags from 168 (one of the workers outside is from Room 271 earlier in the day and is operating the forklift). One worker is on the inside of the 168 exterior clean room handing out the ACM bags.

1415 Workers decon out of work areas and meet at job trailer for end of day meeting.

1430 Dickson workers off site.

1500 Corey off site. MM off site

1600 PBS off site, doors are locked. Generator is shut down.

Signature:

Name: Mike Smith Date10/27/21



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | | |
|---|-----|----|--|----------------|----|--------------------------|-----------------------|----------------|-------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter PBS Project No.: 40535.488 Stensland, Cameron Budnick PBS Project No.: 2021-192 | | | Date: 10 | Date: 10/28/21 | | | | | |
| | | | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Personn | el: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: I | evel 2 contents clear | ning and dispo | osal. |
| Workers | Yes | No | Name: Core | y Foust | | Level 3: Demo and abate | ement. | | |
| How Many? +30 | | | | | | Other Personnel on Site: | MacDonald Miller (M | 1M) | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | | | |
| | | | | | | | | | |

WORK DESCRIPTION: Level 2: Contents cleaning and disposal. Level 3: continue demolition of wall, removal of conduit, bagging up of demolished materials, loading out bagged materials WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat **METHOD OF REMOVAL**: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 Level 2: Two Dickson workers in the clean room wet wiping and HEPA vacuuming the rolling sheet music shelving. 1 worker is in room 271 cutting the wooden chair rails from the hallways and offices and other areas throughout the space using a Sawzall. One worker in the midi lab 275 HEPA vacuuming the floor to pick up all the little screws and pieces of disassembled furniture. 1 worker carrying wooden pieces down the hallway from the classrooms for cutting and bagging/wrapping.

Level 3: 18 workers observed. 2 workers piling up studs from wall demolition in Room 331. Removed studs will be wrapped in poly sheeting. 1 worker is cutting apart the doorframe of 331. 2 workers are removing drywall from Rm 328 south wall. 3 workers removing drywall and wall studs from Room 327. 5 workers are bagging associated drywall, insulation, conduit, studs, and staging for disposal. In Student Lounge. 3 workers are removing wire from ceiling grid. 2 workers are bagging all waste materials noted above for disposal. The demising wall separating Room 327 & 328 has been demolished. Approximately 50% of the south wall of Room 328 has been removed.

| BUILDING/AREA/LOCATION |
|--------------------------|
| Olympic South Levels 2/3 |
| |
| |
| |

The individual signing certifies that the above information is correct and accurate.

Signature: Date: 10/28/21 Name: Mike Smith



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/28/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

4 workers are outside containment transporting bags down the stairs to sky bridge for disposal.

0830 PBS conducted final visual inspection and microvac sampling for jazz plagues from the music department - O288.

1000 Level 2: Work efforts continue as noted.

Level 3: Four workers are in Room 327 pulling conduit from ceiling and cutting drywall. 5 workers are in Room 326 pulling studs and conduit and cleaning up drywall debris from demo of shared wall with Men's Restroom. 4 workers are in the central open area bagging studs and whiteboards. 4 workers are in Room 329 collecting conduit from metal ceiling grid. 17 workers observed.

Three workers are outside of containment loading out asbestos contaminated waste from room 168 into a waste bin on a forklift. One worker inside containment passing them the bags.

1030-1115 Workers break for lunch and return to work.

1200 Level 2: one worker is in the clean room wet wiping the rolling sheet music shelves. 1 worker is outside Room 278 removing cove base by hand. 1 worker is in the midi lab wrapping the disassembled tables in poly sheeting and loading them into a tip-bin for transportation.

Level 3: Three workers are in the decontamination chamber spraying down bags, double bagging, and sealing bags for disposal. 3 workers are continuing removal of wire from ceiling grid and are breaking down and bagging studs and conduit in the Student Lounge. 3 workers are bagging insulation, drywall, and studs that have been pulled down from the walls prior to going to the decontamination chamber. 2 workers are removing the studs and an HVAC vent in the demising wall between Rooms 327/328. 12 workers observed.

1330 Level 2: PBS visually clears three sections of the rolling sheet music shelving and all the blue plastic and metal chairs. There are four Wi-Fi routers that still need cleaning before they pass clearance, 6 Wi-Fi routers have passed visual clearances. Once items pass visual, they are moved to the clean room for PBS to collect representative micovac samples.

Level 3: Three workers are in the Student Lounge bagging studs and drywall for disposal and sweeping up drywall dust. 3 workers are spraying down bags and double bagging waste to be disposed of. 10 workers are in the main floor doing housekeeping and general cleanup of dust and debris (drywall, drywall dust, conduit, studs). 2 workers have broken off to begin demolition activities on the Women's Restroom; fixtures like hand dryers and paper towel dispensers are being removed. Larger debris like wall studs are being wrapped in poly sheeting, glued shut and sealed with tape. 16 crew observed in containment.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date: 10/28/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/28/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

4 workers are outside containment to move bags to sky bridge for disposal.

PBS head in CAS 531 at the cleaned pianos storage area to locate any state tags on the pianos. Cannot locate the state tags on pianos from Rooms 286, 274, 292, and 279. All other state tags noted in smartsheet.

1400 Two workers in the Level 2 cleaning room are beginning housekeeping activities, there is 1 worker in Room 271 and 1 worker in the midi lab doing housekeeping activities.

1430 Dickson workers off site.

1500 Corey off site. MM off site

1600 PBS off site, doors are locked. Generator is shut down.

Signature:

Name: Mike Smith

Date; 10/28/21



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | |
|--|-------------------|------------|--|--|----------------------|----------------|--|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Toan Nguyen, Peter Stensland, Cameron Budnick | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 10/29/21 | | | | |
| | | | | Page 1 of 3 | Time | 0600 am | |
| Contractor on Site Personn | el: | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status: L | .V2 Contents cleanin | g and disposal | |
| Workers | Yes No | Name: Core | ey Foust | LV3 demo and abatemer | nt. | | |
| How Many? +26 | | | _ | Other Personnel on Site: | MacDonald Miller (N | /M) | |
| Air Monitoring Personnel o | n site: PBS/Dicks | on | | Olympic Peninsula Const Olympic South Exterior. S | | _ | |
| | | | | | | | |

WORK DESCRIPTION: Level 1: Load out of staged bags from Level 2. Level 2: Cleaning rolling sheet music shelving, contents disposal.

Level 3: Demolition of walls and ceilings in Men's and Women's Restrooms, demolish walls in Student Lounge, General housekeeping.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson has 26 workers on site plus Corey F.

0700 Level 2: One worker is inside the cleaning room wet wiping and HEPA vacuuming off the rolling sheet music shelving. 1 worker in the midi lab 275 wrapping disassembled table pieces in poly sheeting. 1 worker in the main north to south corridor removing peg boards from the wall. Negative pressure is good in rooms 284 and 283, and throughout the Level 2 enclosure poly barriers are being pulled into the containment area. PBS conducting air monitoring inside and outside of affected areas.

Level 3: Two workers are demolishing the gypsum wallboard ceiling and walls in the Men's Restroom. 2 workers are breaking down wall studs to fit in ACM bags for disposal in the main area (formerly 329). In the same area, 2 workers are demolishing the south and west walls, with 3 workers bagging the demolished materials. 3 workers are in the student lounge removing studs from the south wall. 14 workers observed. 3 workers are carrying waste bags to sky bridge for loading into forklift bin for disposal in container from parking lot A.

0800 One worker in the Level 2 cleaning room wet wiping and HEPA vacuuming the rolling sheet music stands.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 2 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Date: 10/29/21 Name: Mike Smith



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/29/21 | | |
|---|--------------------------|----------------|--|--|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 3 | | |
| | | | | |
| WORK DESCRIPTION: See page 1 above | | | | |
| | | | | |
| OBSERVATIONS: | | | | |

1000 Level 2: One worker in room 289 removing the wall board panels with a hammer. 1 worker is in room 288 doing the same activity. 1 worker in the midi lab 275 disposing of the last remaining sections of tables and the 2 keyboards.

Level 3: Three workers are in the student lounge continuing demolition of studs and drywall. 1 worker is demolishing the Women's Restroom. 1 worker is spot checking the poly sheeting on floor to ensure coverage over carpeting. 1 worker is bagging fixtures from Women's Restroom. 3 workers are removing drywall and insulation from the south and west walls of Room 329. 3 workers are double bagging materials for disposal after spraying down inside bag. 12 workers observed.

Four workers are outside containment and are moving bags to skybridge for load out.

1100 Three workers are outside of containment loading out ACM bags from Room 168 into a waste bin on the forklift. ACM bags located in Room 168 have brought down from Level 2 and staged for loading out. 1 worker is inside containment passing out the bags. After the bin is loaded, the ACM bags are transported to the container in Parking Lot A.

1030-1115 Workers break for lunch and return to work.

1130 PBS is currently in the clean room conducting visual inspections on the rolling sheet music shelving (from 285A), Wi-Fi nodes, and stackable chairs (from 275). The cabinets needed a little more detailing. Everything else in the clean room passed visual inspection.

1230 PBS collects representative microvac samples for contents that have passed the previously noted visual inspection.

1330 Level 2: Two workers are in the 2nd floor cleaning room are beginning housekeeping activities, there is 1 worker in Room 271 and 1 worker in the midi lab 275 doing housekeeping activities.

Level 3: Two workers are HEPA vacuuming along the east walls. 3 workers are HEPA vacuuming south walls in student lounge after removal of wall studs. Workers are beginning general housekeeping for end of day cleanup -> 3 workers are sweeping up the east central floor area, 2 workers are packing up ladders and extension cords. 2 workers are wrapping the final sections of drywall from the day in poly sheeting for removal tomorrow. Poly sheeting has been laid over the staged bags of waste material to be removed on Monday. 12 workers observed

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Signature:

Name: Mike Smith

Date: 10/29/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 10/29/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1500 MM off site. PBS off site, doors are locked. Corey still on site will shut off generator.

Signature:

Name: Mike Smith Date: 10/29/21



| Asbestos Contractor: Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|---------|---------------|---|--|---|--|--|---|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Peter Stensland, Cameron Budnick, Janet Murphy | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 11/1/2021 | | | | | |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| | | | | | | | | |
| Yes | No | Supervisor | Yes No | _ | Summary Phase Status: L | /2 Contents cleaning | g and disposa | I |
| Yes | No | Name: Core | y Foust | | LV3 demo and abatemen | t. | | |
| | | | | | Other Personnel on Site: I | MacDonald Miller (N | /M) | |
| site: PBS/D | icksor | ı | | | , , | , , | | orking on |
| • | Yes Yes | Yes No Yes No | sai, Mike Smith, Peter Stenslan Yes No Supervisor | Yes No Supervisor Yes No Name: Corey Foust | Yes No Supervisor Yes No Yes No Name: Corey Foust | Yes No Supervisor Yes No Summary Phase Status: LV3 demo and abatement Other Personnel on Site: PRS/Dickson PBS Project No.: 40535.48 DES Project No.: 2021-19: Page 1 of 2 Summary Phase Status: LV3 demo and abatement Other Personnel on Site: In Olympic Peninsula Constructions of the Project No.: 40535.48 DES Projec | PBS Project No.: 40535.488 DES Project No.: 2021-192 Page 1 of 2 Time Yes No Supervisor Yes No Yes No Name: Corey Foust LV3 demo and abatement. Other Personnel on Site: MacDonald Miller (Notice: PRS/Dickson) Olympic Peninsula Construction (OPC) reclad | PBS Project No.: 40535.488 DES Project No.: 2021-192 Page 1 of 2 Time 0600 Yes No Supervisor Yes No Summary Phase Status: LV2 Contents cleaning and disposa LV3 demo and abatement. Other Personnel on Site: MacDonald Miller (MM) Olympic Peninsula Construction (OPC) reclad contractor we |

WORK DESCRIPTION: Level 1: Load out of staged bags from Level 2. Level 2: Contents cleaning and disposal.

Level 3: Demolition of walls of Room 329 and wall studs., General housekeeping.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 One worker inside the 2nd level cleaning room wet wiping and HEPA vacuuming the rolling sheet music shelving. One worker inside Room 168 staging ACM bags from the 2nd level (sound insulation and various pieces of general furniture that has been disassembled) for load out. One worker in Room 264 disposing of contents. Fire proofing in rooms 283 and 284 is dropping off the ceiling in large chunks, workers are periodically wetting and bagging them for disposal.

0740 Level 3: PBS started IWA pump on third floor. 3 workers in southwest corner of floor are removing studs remaining from server floor. 2 workers removing studs from women's bathroom with 1 assisting to carry the materials to where they will be wrapped in poly sheeting. 2 workers in what was formerly 329 removing the last of the insulation from below windows. 1 worker wrapping removed studs. 9 workers observed in containment. 3 workers outside of containment assisting with load out through the second level skybridge window.

0745 Two workers going throughout the first and second floors changing out the pre filters on the negative air machines.

1030-1115 Workers break for lunch and return to work.

1140 Dickson fuel truck on site to fill generators.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | 0. |

The individual signing certifies that the above information is correct and accurate.

Signature: Ulliu T sai

Name: Claire Tsai

Date 11/1/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/1/2021 | | | | | |
|---|--------------------------|-----------------|--|--|--|--|--|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 | | | | | |
| | | | | | | | |
| WORK DESCRIPTION: See page 1 above | | | | | | | |
| | | | | | | | |
| OBSERVATIONS: | | | | | | | |

1145 PBS is visually inspecting the remaining rolling music sheet shelving, worker spot cleaning as necessary. Visual Satisfactory, PBS collect microvac samples of the shelves and other contents in the clean room.

1200 Workers on third floor double bag waste in north area near decon. Bags are wiped as they come out the load out. South area of containment workers place gypsum wallboard into ACM bags for disposal. Holes into floor supply plenum are marked and have a perimeter set up with danger tape. Smoke detectors are covered. Workers in floor supply plenum are bagging gypsum wallboard debris.

1215 One worker inside the 2nd floor cleaning room wet wiping and HEPA vacuuming the drum stand. One worker in room 275 wrapping cabinets and other large contents in poly sheeting for disposal. One worker using a tip bin to move the bagged contents from the 2nd floor to the first floor load out in room 168.

1300 LV3 workers continue bagging gypsum wallboard for disposal. Water is sprayed in the area to control dust. Workers are loading out ACM bags, four workers assist from outside containment transporting bags to second floor skybridge, three workers inside containment placing waste bag into second clean bag and spraying water before sealing bag.

1345 Level 3 removed metal wall studs are wrapped in poly sheeting and labeled as asbestos waste. The drops cloths in the restroom area have been removed. The ceramic tile under has been wet wiped. Crew continues to load out waste.

1400 Three workers outside of containment ground level exterior loading out ACM bags into a forklift waste container. One worker is inside Room 168 passing the bags out of containment.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS and Corey leaving site. Doors locked; generator shut off.

Signature: Claure Tsai



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|---|-------------------|------|----------------|---|----|--|------------------------|---------------|-----------|
| PBS Site Observer(s): Claire Janet Murphy | e Tsai, Peter Ste | nsla | ınd, Cameron I | Budnick, | | PBS Project No.: 40535. DES Project No.: 2021-1 | | Date: 11 | /2/2021 |
| | | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Personn | el: | | | | | | | | |
| Project Manager | Yes I | νo | Supervisor | Yes | No | Summary Phase Status: | LV2 Contents cleaning | g and disposa | l. LV3 |
| Workers | Yes | No | Name: Core | y Foust | | demo and abatement. | | | |
| How Many? + 21 | | | | | | Other Personnel on Site | e: MacDonald Miller (M | IM) | |
| Air Monitoring Personnel o | n site: PBS/Dic | ksor | 1 | | | Olympic Peninsula Cons Olympic South Exterior. | , , | | orking on |
| | | | <u> </u> | | | | | | |

WORK DESCRIPTION: Level 1: Load out of staged bags from Level 2. Level 2: Contents cleaning and disposal.

Level 3: Demolition of north perimeter walls, carpet removal Rooms 328/329, General housekeeping.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building.

0700 Level 2: One worker is inside of Room 264 disassembling wooden tables with a drill. 1 worker is inside the 2nd floor cleaning room wet wiping and scraping off the residue on the rolling sheet music shelves. 1 worker is in the MIDI lab 275 wrapping wooden crates in poly sheeting before loading them out with a hand cart. 1 negative air machine has been moved into the MIDI lab 275 and is exhausting out of the 2nd floor west staircase.

Level 3: Nine workers are demolishing the north perimeter wall at windows. Water usage was observed during the demolition process as a dust control measure. 1 worker is bagging debris and 1 worker is wrapping wall studs in poly sheeting. 1 worker is removing the remaining upper sill plates from the wall demolition on the west side. 3 workers are outside of containment assisting with load out through the second level skybridge window.

PBS is conducting air sampling inside, outside of the work areas, and at negative air machine exhaust vents.

0815 Level 2: One worker inside the 2nd floor cleaning room continuing to wet wipe the rolling sheet music shelves and scrape them with a paint scraper. 1 worker is in room 264 bagging the disassembled desk pieces into ACM bags, the contents are then sprayed with a Hudson and taped/adhesive sprayed shut. 1 worker is in the midi lab 275 wrapping wooden crates in poly sheeting before taping the wrap closed and spraying with adhesive. 1 worker is

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Date 11/2/2021 Name: Mike Smith



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/2/21 | | | | | |
|---|--------------------------|---------------|--|--|--|--|--|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 | | | | | |
| | | | | | | | |
| WORK DESCRIPTION: See page 1 above | | | | | | | |
| | | | | | | | |
| OBSERVATIONS: | · | <u> </u> | | | | | |

entering the work zone to help bring rolling sheet rock carts up (4 carts loaded in). 2 workers are bringing the carts to the containment.

0855 Two worker sealing dumpster liner in parking lot A.

1030-1115 Workers break for lunch and return to work.

1035 Dickson is getting another waste bin exchanged in the parking lot by DM disposal.

1200 Level 2: Two workers are in the midi lab 275 wrapping filing cabinet drawers in poly sheeting for disposal. 1 worker is cleaning metal frame in clean room. 1 worker from load out is in the work area periodically to help bring rolling sheet rock carts up.

Level 3: 6 workers removing carpet sections in what was Rm 328 and 327. 5 workers are completing General housekeeping cleanup. Workers are double-bagging waste in north area near the decontamination chamber. Bags are wiped as they come out the load out. 2 workers are covering hole left over from removed wall in Women's Restroom. 13 workers observed.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1440 Corey and MM off site for the day. Doors are locked.

1500 PBS shut off generator and leave site.

Signature:

Signatur

Name: Mike Smith

Date: 11/2/21



| Asbestos Contractor: Dick | son | Project Name: Olympic South Abatement & Repairs | | | | |
|--|---|---|--|-----------------------|----------------------|----|
| PBS Site Observer(s): Claire Janet Murphy, Gregg Midd | e Tsai, Peter Stensland, Cameron Budnic augh | k, | PBS Project No.: 40535. DES Project No.: 2021-1 | | Date: 11/3/202 | 1 |
| | | | Page 1 of 2 | Time | 0600 am | |
| Contractor on Site Personn | el: | _ | | | | |
| Project Manager | Yes No Supervisor Yes | No | Summary Phase Status: | LV1: Load-out LV2: C | ontents cleaning and | |
| Workers | Yes No Name: Corey Fous | t | disposal. LV3: Carpet re | moval and load-out. | | |
| How Many? + 22 | | | Other Personnel on Site | : MacDonald Miller (N | ИM) | |
| Air Monitoring Personnel o | n site: PBS/Dickson | | Olympic Peninsula Cons Olympic South Exterior. | | | วท |
| | | | | | | |

WORK DESCRIPTION: Level 1: Load out of staged bags from Level 2. Level 2: Contents cleaning and disposal/transport bags to Level 1. Level 3:

Carpet removal and load out of asbestos-contaminated materials to LV2 skybridge

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Wet methods manual and electric tools (Sawzall, Demolition Hammer, Drill, etc..)

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building.

0700 Level 1: Two new workers are entering the containment and meeting Eric (the floor lead) to go over the scope of work and get more detailed information.

Level 2: Two workers in the cleaning room doing detail cleaning on paintings and metal roller press. 1 worker is in the MIDI lab 275 wrapping paintings in poly sheeting for disposal.

Level 3: Two workers are removing carpet in the Student Lounge. 3 workers are clearing equipment and other materials from carpet on the north wall, west of Restroom. 2 workers are removing equipment and pulling plastic sheeting off carpet to prep for removal in 323. No workers outside containment observed. 7 workers observed.

PBS is conducting air sampling inside, outside of the work areas, and at negative air machine exhaust vents.

0900 Level 3: Three workers are in the material decontamination chamber double-bagging ACM bags and passing them out to workers in the stairway. 4 workers are handing the waste from floor 3 down the stairs to floor 2 and out via the skybridge to the forklift mounted waste bin.

1130 Level 2: One worker inside the MIDI lab 275 cutting up metal furniture pieces for disposal with a Sawzall. 2 workers inside the cleaning room HEPA vacuuming art pieces with soft bristle brush attachments.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| CHANGES IN SCOPE: None | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Date 11/3/2021 Name: Mike Smith



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/3/21 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

One united rentals repairman outside fixing the forklift used for loading out ACM waste.

1200 Level 3: Carpet removal in progress in the Student Lounge and on the south server floor of Rooms 323 – 325. Workers are using a demolition hammer with a chisel bit for carpeting removal.

Workers are cleaning the east stairwell from LV3 to LV2.

1300 Level 1: One worker loading ACM bags from the 2nd floor into room 168. Room 168 has been emptied of all previously bagged materials from earlier in the day.

Level 2: Two workers in the 2nd floor cleaning room continuing to clean various art pieces. One worker in the MIDI lab doing general housekeeping.

1345 Level 3: Workers are adjusting the and resecuring the poly sheeting at the skybridge door to the Olympic North Building following carpeting removal in the Student Lounge. General housekeeping is in progress in other portions of this level.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS and Corey leaving site. Doors locked; generator shut off.

Signature:

Name: Mike Smith

Date: 11/3/21



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | | |
|--|---------------------------------|--|--|---------------------------------------|---|--------|--|--|--|
| PBS Site Observer(s): Peter Stensland, Cameron Budnick | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | 1/4/21 | | | |
| | | | Page 1 of 2 | Time | 0600 | am | | | |
| Contractor on Site Persor | nel: | | | | | | | | |
| Project Manager | Yes No Supervisor Yes No | | | | Summary Phase Status: Level 2: Clean art and shelving. Level 3: | | | | |
| Workers | Yes No Name: Corey Foust | | | Continued carpet removal and load-out | | | | | |
| How Many? +22 | | | Other Personnel on Site: MacDonald Miller (MM) | | | | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | | | |

WORK DESCRIPTION: level 2: Continued cleaning of art, disassembling contents for disposal. Level 3: Continued drywall demolition and carpet removal.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 Level 2: One Dickson worker is in Room 275 disassembling a technology rack before wrapping it in sheet poly for disposal. 2 workers are in the cleaning room using HEPA vacuums with soft brush attachments to clean canvas paintings. 1 worker is using an encapsulant on the inside of the metal rail system for the rolling sheet music shelves. The purpose of the encapsulant is to seal the inside of the metal tubes to adhere loose rust from dislodging. 1 worker in room 264 cutting the wooden tables into smaller pieces with a Sawzall to make for easier disposal. Several patches of fireproofing have fallen from the ceiling in room 283 and are sitting on the floor. Workers are cleaning up the fireproofing prior to the end of the shift daily.

Level 3: Three workers are at entrance to the containment to pass out bags for disposal via the sky bridge. Workers were observed spraying water in bags as double bagging was in progress. 3 workers are removing carpeting along north wall. 2 workers removing remaining drywall and insulation from northwest corner. 1 worker is removing remaining drywall and insulation from north wall of the student lounge.

9 workers observed in containment with 4 additional for moving ACM bags to sky bridge.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date11/4/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/4/21 |
|---|-------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0900 Level 1: One worker is in Room 168 attaching generator tags and asbestos labels to the poly bags with adhesive spray glue.

Level 2: One worker in Room 275 wrapping the metal bathroom partitions in poly sheeting then sealing with adhesive spray and tape. 2 workers are in the 2nd floor cleaning room, one worker is HEPA vacuuming (with soft brush attachments) various art pieces. The other is spraying encapsulate down the inside of the metal rolling sheet music guide pieces. The metal section is propped up against a wall and the worker sprays the encapsulate down the length of the tube with a spray bottle and funnel. Prior to doing this step the holes down the length had been taped shut and a HEPA vacuum was taped to the end to create suction to remove as much rust particulate from the inside as possible.

Level 3: Six workers observed in containment. 3 workers engaging in cleanup activities prior to lunch with the other 3 removing more sections of carpet. Of those 3, 1 is sweeping, and two are HEPA vacuuming residual dust from carpet removal. 1 worker is outside containment wiping down east stairs.

1015 PBS departs site for the day to attend a corporate meeting. MM and Dickson still on site.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date:11/4/21



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | | |
|---|--|--|--|--|------|---------|--|--|--|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Janet Murphy, Peter Stensland, Cameron Budnick | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 11/5 | | | | | | | |
| | | | | Page 1 of 2 | Time | 0600 am | | | |
| Contractor on Site Personn | el: | | | | | | | | |
| Project Manager | Project Manager Yes No Supervisor Yes No | | | Summary Phase Status: Demolish stairs in 284. Remove carpeting | | | | | |
| Workers | Workers Yes No Name: Corey Foust | | | from Level 3. Contents cleaning and disposal. | | | | | |
| How Many? +21 | | | Other Personnel on Site: MacDonald Miller (MM) | | | | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | | | |
| | | | | | | | | | |

WORK DESCRIPTION: Level 2: Disassemble elevated art storage from Rooms 279 an 271 and demolish stairs Room 284

Level 3: Remove and dispose carpeting and general housekeeping.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 Level 2 Dickson is reconfiguring their negative air setup. Mini enclosures for exterior doors in rooms 284 and 283 are no longer in use for the reclad contractor. Mini enclosures taken down replaced with poly sheeting covering the door with HEPA exhausts venting out. Three negative air machines in hall near 264 moved near 289 exhausting out of the west stairs. One negative air machine in hall near 264 scrubbing air. 2 MM workers going through the 2nd floor investigating what outlets and lights still need safe off. One worker in room 270 disassembling the overhead art storage shelves with a prybar and Sawzall. 5 workers in room 284 demolishing the stairs down to the west exterior door. 2 workers in the 2nd floor cleaning room HEPA vacuuming and wet wiping framed pictures.

Level 3: Two workers are in the decontamination chamber double-bagging ACM bags and handing them out to workers for loading out via the 2nd floor skybridge. 3 workers are removing carpeting on the raised server floors of Rooms 323-325.

0830 Three workers assembling gantry crane in Room 264 to assist with disassembling and cleaning of Griffin printing press.

0900 Level 2: Work efforts continue as noted.

| ITEMS OF CONCERN: None | |
|---|--------------------------|
| | |
| CHANGES IN SCOPE: None | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 2/3 | Olympic South Levels 2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Date; 11/5/21 Name: Mike Smith



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/5/21 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Level 3: Two workers cutting and removing carpet on the west side. 2 workers are vacuuming the floor on the west and east side. 2 workers are bagging up waste generated by carpet removal activities.

1000 Four workers in Level 3 continue carpet removal in Rooms 0333 and 0334 The carpeting is being bagged-up as removal occurs. 1 worker is HEPA vacuuming behind them as they go

1030-1115 Workers break for lunch and return to work.

1200 Level 3: Workers are bagging up removed carpeting in the enclosure. Four workers are removing waste bags from the 3rd floor containment and passing them to the second floor skybridge for disposal.

1300 PBS noticed observed water inside room 266 which originated from a sink. Water has moved from the sink further into the room and out into the general hallway. Some of the art pieces are wet from the water on the floor but no damage is immediately evident. PBS moves all art pieces out of the impacted area. No additional water is coming from the sink, all artwork in room is elevated off the floor.

1330 Level 2: Five workers in room 284 doing general house cleaning. The workers have begun cutting open the north wall in 284 utilizing the mobile scaffolding and Sawzall. Currently the workers are using an airless sprayer to bring the airborne dust levels down. 2 workers are sweeping up bulk debris on the ground. 2 workers are in the cleaning room HEPA vacuuming artwork. One worker is in Room 270 wrapping bulk material for loadout. PBS sort all art that has been approved for disposal from room 266 and place into hallway. Workers move art approved for disposal to room 264 to be wrapped/bagged for disposal.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Dickson workers and MM off site.

1500 Corey and PBS off site. Doors are locked, generator shut off.

Signature:

Name: Mike Smith Date: 11/5/21



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | | |
|---|--|-------------|--|-------------------------|--|---------|--|--|--|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Peter Stensland, Cameron Budnick | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 11/8/21 | | | | | | |
| | | | | Page 1 of 2 | Time | 0600 am | | | |
| Contractor on Site Personn | el: | | | | | | | | |
| Project Manager | Project Manager Yes No Supervisor Yes No | | | | Summary Phase Status: Load out through level 1. Level 2 contents | | | | |
| Workers | Yes N | o Name: Cor | rey Foust | cleaning and disposal, | wall demo in 284. | | | | |
| How Many? +22 | | | _ | Other Personnel on Site | e: MacDonald Miller (N | MM) | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | | | |
| | | | | | | | | | |

WORK DESCRIPTION: Level 1: Replace poly sheeting floor of Room 168, general housekeeping. Level 2: Cleaning contents from Room 281, remove gypsum wallboard walls in 284. Level 3: Continue carpeting removing, bag removed materials. WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Personal air sampling is being conducted by Dickson.

0700 Level 1: Three workers putting in a new drop cloth in the exterior load out area from room 168. One worker doing general housekeeping on the first floor.

Level 2: Two workers inside the cleaning room HEPA vacuuming papers and books from Room 281. 1 worker is inside of Room 264 bagging art pieces and sealing them with adhesive before taping the bags shut for disposal. 6 workers are in Room 284, 2 are on scaffolding using pry bar to remove gypsum wallboard on the north wall between 284 and 284A, 3 are on the ground bagging debris and sweeping the area, 1 worker is using an airless sprayer to control airborne dust from demolition activities.

Level 3: Three workers observed in containment. 2 workers are sealing waste bags of asbestos-contaminated carpet for later disposal. 1 worker is preparing to remove the last sections of carpeting from the 3rd floor work area. Work equipment that is no currently in use is being stored in the Student Lounge area.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Date: 11/8/21 Name: Mike Smith



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/8/21 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0900 Level 2: Workers continue HEPA vacuuming and wet wiping contents from Room 281 in the cleaning room. Workers in Room 284 continue gypsum wallboard demolition as previously noted.

Level 3: Two workers continue sealing waste bags of asbestos-contaminated carpet for later disposal. 1 worker is removing the last sections of carpeting from the hallway near Rooms 320 and 321.

Three workers are loading out sealed ACM bags from Level 1 & 2 through the 168 to the forklift bin to the storage containers in Parking Lot A.

1030-1115 Workers break for lunch and return to work.

1130 PBS noted a couple of slow dripping leaks in the remaining restroom plumbing on Level 3. Dickson was notified and placed buckets below the dripping plumbing.

1200 Level 2: Two workers are in Room 264 bagging shelving and other general debris for disposal. 5 workers are in Room 284 picking up debris for bagging and doing general housekeeping activities. The power is out on the spider boxes, workers rearrange their power situation. MM will be running additional power to third floor for demo activities. 2 workers in the cleaning room are cleaning the rolling press with wire brushes, wet wipes, and HEPA vacuums.

Level 3: Two workers are removing the remaining carpeting from level 3. 1 worker is bagging carpeting as removal progresses.

1220 Two additional negative air machines are in Room 284 scrubbing the air.

1320 Level 3: Workers have finished for the day. Waste bags have been removed but equipment remains. Crew is waiting for delivery of grinder to remove remaining yellow carpet mastic. Previously noted slow leak in the restroom fixtures is being contained with buckets until permanent fix can be applied. All carpet has been removed from third floor.

1340 Level 2: Two workers are inside the 2nd floor cleaning room HEPA vacuuming and wet wiping the rolling press. 6 workers inside room 284 doing housekeeping in preparation for the end of the day. 3 workers loading out bagged asbestos contaminated material from 284 downstairs to room 168.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Dickson workers off site.

1500 Corey and PBS off site. Doors are locked. Dan still on site will shut generator off.

| The individual signing certifies that the above | Signature: McM/m/ | |
|---|-------------------|---------------|
| information is correct and accurate. | Name: Mike Smith | Date: 11/8/21 |
| | | |



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|---|-----|--|--|--|--------------------|---------------|------|----|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Peter Stensland, Cameron Budnick | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | Date: 11 | /9/21 | | |
| | | | | Page 1 of 2 | Tir | me | 0600 | am |
| Contractor on Site Personn | el: | | _ | | | | | |
| Project Manager Yes No Supervisor Yes No | | | | Summary Phase Status: Level 2 contents cleaning and disposal, wall | | | | |
| Workers Yes No Name: Corey Foust | | | demo in various locations. Loading out via Room 168. | | | | | |
| How Many? + 21 | | | _ | Other Personnel | on Site: MacDonald | d Miller (MM) | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | | |
| | | | <u> </u> | • | | | | |

WORK DESCRIPTION: Level 2: Cleaning Room 264 contents, gypsum wallboard (GWB) demolition in various locations. Load out via level 1 Room 168.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0645 PBS is setting up ambient air samples around the 4 elevations of the Olympic South Building.

0715 Level 2: Two workers are in the 2nd floor cleaning room wet wiping the disassembled print press. 1 worker is wiping down the chain to the lower roller and 1 worker is wiping down the raising/lowering mechanism on the larger upper roller. One worker is in room 264 disassembling the wooden art pedestals with a pry bar and hammer. One worker is in 271 removing the last section of the overhead art storage shelves with a Sawzall. 9 workers are in room 284 doing general housekeeping and bagging removed GWB. Power lost to the 283/284 work area, two negative air machines still running. PBS notified Corey of power issue. Corey will be in contact with MM to address the outages.

Level 3: No work occurring.

0745 One MM electrician enters 1st floor containment to run additional power to level 2 work area.

0840 Four workers by the conexs sorting through back-stocked materials and grabbing supplies

1030-1115 Workers break for lunch and return to work.

| ITEMS OF CONCERN: None | |
|---|------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Level 2 | Olympic South Level 2 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date:11/9/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/9/21 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1115 MM has solved the previously noted power issue by adding a second spider box to Room 283. All negative air machines up and running. PBS work on inventory of contents on level 1.

1130 Level 2: Five workers are in Room 284 bagging up removed wallboard and framing and HEPA vacuuming the area. Approximately 50% of the north wall between room 284 and 284A has been removed. 3 workers are on the exterior of Room 168 loading out waste bags into a forklift waste bin, 2 workers are inside containment bringing down carts and passing bags out of containment.

1300 Level 2: Three workers inside the cleaning room wet wiping and HEPA vacuuming the print press. Two workers are in Room 264 bagging up dismantled wood furniture pieces in poly sheeting for disposal. 8 workers are in Room 284, 2 on the mobile scaffolding removing GWB wall with a Sawzall and pry bar. 1 worker is spraying down the area with an airless sprayer. 6 workers wrapping and bagging the debris in poly sheeting and/or poly bags for disposal

1410 6 workers inside room 284 doing general housekeeping, 3 workers deconing out of the first floor.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Dickson workers off site.

1500 Corey and PBS off site. Doors are locked. Dan still on site will shut generator off.

Signature: Mchol my

Signature:

Name: Mike Smith

Date: 11/9/21



| Asbestos Contractor: Dickson | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|--|--|---|--|-----------------------|---------|
| PBS Site Observer(s): Claire Tsai, Peter Stensland, Cameron Budnick | | PBS Project No.: 40535.4 DES Project No.: 2021-1 | | Date: 11/10/21 | | |
| | | | | Page 1 of 2 | Time | 0600 am |
| Contractor on Site Personn | iel: | | | | | |
| Project Manager | Yes No Supervisor Yes No | | Summary Phase Status: Level 1: Contents disposal. Level 2: Contents | | | |
| Workers | Yes No | No Name: Corey Foust | | cleaning and disposal, Room 284 wall demolition. | | |
| How Many? + 20 | | | _ | Other Personnel on Site | : MacDonald Miller (N | ИM) |
| Air Monitoring Personnel on site: PBS/Dickson | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | |
| | | | | | | |

WORK DESCRIPTION: Level 1: Disassemble desks from Room 181 for disposal. Level 2: Cut up wood cabinets, clean printing press components, clean art, Room 284 gypsum wallboard (GWB) demolition. Level 3: No work occurring today WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 Level 2: Two workers are in Room 264, 1 is cutting up wooden cabinet pieces with a Sawzall the other is demolishing the photo sink with a hammer (to the extent of leaving plumbing). 3 workers inside the 2nd floor cleaning room cleaning of rollers for print press, art pieces, and drums by wet wiping and HEPA vacuuming. 3 workers are inside of Room 275 wrapping furniture pieces in poly sheeting and labeling them for disposal before putting them into a cart, then transporting them to Room 168 for load out. 4 workers are in Room 284, 2 are removing gypsum wallboard and bagging it on the top level of the scaffolding before lowering it to a worker on the ground, 1 worker is misting water with an airless sprayer. 2 workers in the hallway containment before rooms 283 and 284 laying down new poly sheeting and doing general housekeeping.

Level 3: No work occurring. Dickson in the process of procuring a grinder for floor mastic removal.

0745 PBS checks the Level 3 fixtures in the restrooms previously noted as leaking. The floor appears dry, and buckets are below the leaking fixtures capturing drips as they occur. Dickson is monitoring and emptying buckets.

0800 PBS on level 1 continues to inventory contents.

| ITEMS OF CONCERN: None | |
|---|--------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Load out of asbestos contaminated building materials from Level 1/2 | Olympic South Levels 1/2 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Date 11/10/21 Name: Mike Smith



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/10/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1030-1115 Workers break for lunch and return to work.

1215 Level 2: Seven workers are in Room 284 applying a new layer of poly sheeting to the floor and doing general housekeeping. The wall separating room 284 and 284A has been completely removed. Waste bags are staged near the hallway entrance waiting for load out. 3 workers are inside the cleaning room wet wiping and HEPA vacuuming the rolling printing press and doing final detail cleaning before visual clearance. 1 worker passing out asbestos contaminated materials out of room 168, 2 workers carrying the material to the forklift waste container (which has one operator).

1320 Level 1: One worker has moved and is disassembling a table in Room 181 for disposal.

Level 2: Three workers in cleaning room continuing to clean art equipment for eventual return to college. 2 workers are in Room 278 bagging disassembled desk components. PBS observed workers are spraying down materials in bag as they work (284). 7 workers observed in room 284 who appeared to be finished with work for the afternoon. Waste bags are staged for disposal in hallway immediately outside 284. PBS visuals contents including art, portions of print and etching press. Items that pass visual inspection are moved to clean room for PBS to collect microvac samples. Items that need additional cleaning stay in cleaning room and get touched up by the crew. Items that will be returned with an assumption of risk form PBS conducts a visual inspection and then samples in the cleaning room. Those items are then sealed in a labeled bag before being removed from containment.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Dickson workers off site.

1500 PBS off site. Doors are locked. Dan and Corey still on site will shut generator off.

Signature:

Name: Mike Smith

Date 11/10/21



| - | | | | | | | | |
|---|----------------------------------|------------|---|--|--|------|----|--|
| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | |
| PBS Site Observer(s): Claire Tsai, Mike Smith, Peter Stensland, Cameron Budnick | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 11/11/2 | | | | | |
| | | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Person | nel: | | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status: I | evel 1: Load out. | | | |
| Workers | /orkers Yes No Name: Corey Foust | | | | Level 2: Demo HVAC and bag-up debris Level 3: Prepare for grinding | | | |
| How Many? +20 | | | _ | Other Personnel on Site: | MacDonald Miller (N | ИM) | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | |
| | | | | | | | | |

WORK DESCRIPTION: Level 1: Bagging asbestos-contaminated materials. Level 2: Removing HVAC, bagging or wrapping asbestos-contaminated Materials. Level 3: Deliver grinder to floor and prepare for grinding.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods, saws, and other electric tools

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 Two workers are loading out waste bags from Room 168. 2 workers are bringing down carts loaded with ACM bags and then passing the bags to workers outside the containment area. 2 workers are inside the 2nd floor cleaning room doing detail cleaning on the print press. 9 workers are in room 284 demolishing HVAC ductwork and wrapping in poly sheeting for disposal. The previously demolished gypsum wallboard and associated fiberglass insulation are also being bagged into labeled ACM bags.

0800 Four workers are involved with activities associated with transporting ACM bags and wraps to the containers in Parking Lot A. Currently 1 container is full scheduled for pickup, 1 container is approximately half full, and 2 containers are empty. I worker is on his way to Kent to pick up the grinder for Level 3 floor mastic removal.

0830 PBS Project Manager Gregg Middaugh arrives to the job site

0915 Level 1: One worker is in Room 181 bagging dismantled standing desk components. 2 workers are in Room 168 bagging and labeling ACM bags into a second clean bag for load out.

Level 2: Seven workers are inside of room 284, 3 are disassembling a mobile scaffolding platform. 4 workers are bagging bulk debris and wrapping larger pieces of HVAC with poly sheeting.

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1/2/3

1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 11/11/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/11/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1010 The grinder for use on Level 3 floor mastic removal has arrived at the job site.

1030-1115 Workers break for lunch and return to work.

1140 Two workers and 1 MM electrician have transported the grinder to the Level 3 work area and are beginning to prep the machine and wire it in.

1200 PBS enter level 3 with Dan (MM) Corey and Todd (Dickson) to look at electrical and server rooms 320 and 321 remaining. One MM electrician in area setting up power for grinder.

1240 Level 1: Two workers are in Room 168 bagging materials for disposal. 1 worker is in Room 181 wrapping the top of a table for disposal.

Level 2: One worker is in the clean room vacuuming/housekeeping. 10 workers are in Room 284 removing HVAC duct work and drywall to access to ceiling fireproofing. Of that crew, 4 are sealing bags of drywall and ductwork as the other 6 remove drywall and ductwork. Waste bags are being staged in the hallway outside 284. PBS to collect microvac samples from art. Items that will be returned with an assumption of risk form PBS conducts a visual inspection and then samples in the cleaning room. Those items are then sealed in a labeled bag before being removed from containment.

1250 Level 3: Dickson will remove gypsum wallboard from 320 and 321 and leave conduit in place to hold up electrical panels that have power (marked by MM electrician). Some HVAC ducting found below floor still needs to be removed and wall insulation below raised floor. One worker loading out materials not in use.

1320 Level 1: Two workers are inside Room 168 bagging asbestos contaminated materials (furniture pieces from room 168 and double bagging waste bags brought down from the 2nd floor before loadout). 1 worker is inside of Room 181 wrapping white boards in poly sheeting.

Level 2: Three workers are inside of Room 275 offloading ACM bags from Room 284 to be stored until ready for load out. 6 workers are inside room 284 doing general housekeeping and bagging up the remaining materials around the room. The HVAC ductwork has been completely removed from room 284A. Approximately 60% of the east facing wall in room 284 has had the GWB removed, leaving CMU exposed.

Level 3: 4 workers are currently in the space. Corey and Silima (supervisor for the area) are discussing plans for demolition, 1 worker is organizing equipment, and 1 worker is familiarizing themself with the grinder operation.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Dickson workers off site.

1500 Corey and PBS off site. Doors are locked, generator off.

Name: Mike Smith

Michal Mms

Date: 11/11/21



| Asbestos Contractor: Di | ckson | Project Name: Olympic South Abatement & Repairs | | | |
|--------------------------------------|--|--|--|--|--|
| PBS Site Observer(s): Cla Budnick | ire Tsai, Mike Smith, Peter Stensland, Cameron | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 11/12/21 | | | |
| | | Page 1 of 2 Time 0600 am | | | |
| Contractor on Site Person | nnel: | | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: Level 3 Mastic removal. Level 2 contents | | | |
| Workers | Yes No Name: Corey Foust | cleaning and disposal. | | | |
| How Many? +20 | | Other Personnel on Site: MacDonald Miller (MM) | | | |
| Air Monitoring Personne | on site: PBS/Dickson | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | |
| | <u> </u> | | | | |

WORK DESCRIPTION: Level 3 removing carpet mastic with grinder wall demo of 320 and 321. Level 2 contents cleaning, disposal, and hallway locker demolition.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat, COVID masks.

METHOD OF REMOVAL: Wet methods manual and saws. For mastic removal SASE PDG 6000 grinder and HEPA vacuum system.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0715 One worker in room 168 wrapping the lockers from the 2nd floor hallway in poly sheeting for disposal. One worker rolling in more lockers on a wheeled cart. One MM worker going through doing an inspection on the first and second floors. One worker inside the 2nd floor cleaning room wiping down framed pictures with goo gone. Two workers in the decon area one is suiting up to go inside containment, one is doing general housekeeping.

0815 Level 3: Two workers along south wall wrapping the removed door from the electrical room (320) in poly sheeting for disposal. 3 workers removing drywall and will remove the studs once drywall is completed. 1 worker along the former 330 hallway is cutting out remaining portion of roof exhaust fan ducting. 2 workers are removing the mini enclosure to the construction door to Olympic North, for access to remove the carpeting and mastic below; a critical barrier remains over the door. 1 worker is screwing in boards over the holes in the floor. 9 workers observed in containment. 1 is outside containment in the stairwell.

1000 One worker in room 168 wrapping lockers from the 2nd floor in poly sheeting and labeling them with appropriate tags. One worker in room 264 cutting the wooden countertop from the lockers with a Sawzall. One worker dismantling the wooden base across from the elevator with a Sawzall and pry bar.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| | |
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| | 0 |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai

Name: Claire Tsai

Date 11/12/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/12/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | · |
| | | |
| OBSERVATIONS: | | |

1015 Level 3: Six workers are in the electrical room 320, 2 of which are sweeping up drywall debris, 3 are removing the drywall, and 1 is removing the studs. 1 is still working on securing the temporary flooring over the holes in the floor, and 2 are operating the grinder and a HEPA vac. 1 worker is removing roof exhaust fan ductwork. 10 workers observed in containment and no workers are assisting from the outside. Roughly 50 SF has been ground out and had the mastic removed next to room 320 Electrical panels have been covered with poly sheeting to prevent mastic dust from accumulating. Carpet mastic temporarily stopped, due to issue with dust collection system. A service technician was called and fixed the problem. Grinding will resume after lunch. 9 workers observed.

1030-1115 Workers break for lunch and return to work.

1130 Level 3 Workers suit up. 5 workers observed. 3 are wet wiping and HEPA vacuuming dust from the electrical room and 2 are working on the grinder.

1230 One worker in room 168 wrapping wooden locker pieces with poly sheeting and labeling them with appropriate labeling. One worker across from the elevator cutting down the last bits of the wooden platform that supported the lockers. One worker in 264 cutting down the locker wooden base pieces and bagging them for disposal.

1330 Level 3: One worker is on the grinder in the student lounge. 1 worker is removing remaining roof exhaust ductwork. The other 7 workers are housekeeping and general cleanup for the weekend.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers and Corey off site for the day.

1445 MM off site.

1500 PBS off site. Doors locked, generator shut off.

Signature: Www. T. Swii.
Name: Claire Tsai



| Asbestos Contractor: Dic | kson | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|-------------------------------|----------------------|--|--|------------------------|-----------------|---------|
| PBS Site Observer(s): Clai Cameron Budnick | re Tsai, Janet Murp | hy, Peter Stensland, | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 11, | | | 1/15/21 |
| | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nel: | | | | | | |
| Project Manager | Yes No | Supervisor Y | es No | Summary Phase Status | Level 3 mastic remov | al. Level 2 dem | no and |
| Workers | kers Yes No Name: Corey Foust | | | contents cleaning. Level 1 load out. | | | |
| How Many? +22 | | | | Other Personnel on Site | e: MacDonald Miller (N | MM) | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | |

WORK DESCRIPTION: Removing mastic on the 3rd floor. Chemically removing mastic from server tiles. Removing carpet from "j" box covers.

2nd floor cleaning cutting and removing lockers.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat, COVID masks and hard hats, work boots.

METHOD OF REMOVAL: wet methods manual and saws, grinder with HEPA vacuum attachment.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air

0700 One worker inside room 168 wrapping lockers in sheet poly for disposal. One worker using a hand cart to bring down cut up sections of the lockers from the 2nd floor. One worker in the 2nd floor cleaning room wet wiping and HEPA vacuuming the plastic drum cases. 2 workers in room 284 removing GWB walls with a prybar. One worker in room 264 bagging up wooden countertops from the 2nd floor lockers for disposal.

0720 Level 3: Eleven workers observed in containment. 2 workers are wrapping studs in poly sheeting for later disposal. 1 worker removing conduit. 1 worker is removing studs from electrical room and has 2 crew assisting with demo. A pair of 2 workers are grinding the former 327 classroom floor and HEPA vacuuming up leftover mastic dust. 1 worker is building out the mini enclosure allowing access to occupied 3rd floor space. 1 worker is bending studs so they will fit in ACM bags. 1 worker is removing screws from studs to facilitate removal.

0900 3 workers bringing supplies from the conexs in the parking lot to the first and 3rd floor clean rooms (Tyveks and pre negative air filters).

0915 Two workers inside room 168, one is wrapping locker pieces in sheet poly, the other is unloading bagged asbestos contaminated material from the 2nd floor from a rolling cart. One worker inside the 2nd floor cleaning room wet wiping and HEPA vacuuming the inside of the plastic drum cases. One worker cutting the lockers with a Sawzall across from room

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: White Tsai Date 11/15/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/15/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

291 and loading them into a rolling cart to be moved downstairs. Two workers in room 284, one is on top of the mobile scaffolding doing general housekeeping, the other is on the ground wetting down the inside of ACM bags. Negative pressure looks good pulling into the containment at all observed areas.

0940 One worker in Parking lot A leaf blowing. Two workers are walking back towards the conexs to get supplies.

*The siding company is leveling the ground on the west side of the building with a small excavator which could potentially impact air morning results.

1000 Level 3: Ten workers observed in containment. No active crew in immediate area. 1 worker is sweeping up debris from the grinding. 3 are removing floor vents in order to continue grinding in 327. 1 worker is HEPA vacuuming wall cavities on east wall. 4 workers are removing the server floor in the SW corner of the third floor.

1030-1115 Workers break for lunch and return to work.

1200 One worker inside room 168 continuing to wrap lockers from the second floor in sheet poly. One worker deconning out of the first floor. One worker in room 284 bagging wood framing from the east wall. One worker with a sheet rock cart bringing down wrapped materials for load out. One worker in the second-floor cleaning room wet wiping and HEPA vacuuming artwork.

1215 Dickson fuel truck on site to fill generators.

1245 Workers have begun removing the doors and glass windows from offices on the 2nd floor.

1250 Level 3: Five workers removing mastic from server floor tiles. 45 were removed from floor for cleaning with 4 completed at time of inspection. 1 worker spot sweeping and one removing floor vents on north wall. 1 worker on east wall removing fiberglass and HEPA vacuuming remaining materials. 2 workers are grinding mastic in the student lounge.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS and MM off site. Corey still on site will lock doors and shut off generator.

Signature: Claure T. Sai.

Name: Claire Tsai Date 11/15/21



| Asbestos Contractor: Dick | son | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|---------------|------------|---------------|--|-------------------|------------------------|---------------|------------|
| PBS Site Observer(s): Claire Tsai, Mike Janet Murphy, Peter Stensland, Cameron Budnick | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 11/16/2 | | | | 1/16/21 |
| | | | | Page 1 | of 2 | Time | 0600 | am |
| Contractor on Site Personn | el: | | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary | y Phase Status: I | evel 3 mastic remova | l and load ou | t. Level 2 |
| Workers | Yes No | Name: Core | ey Foust | demo an | d contents clear | ning. Level 1 load out | • | |
| How Many? +22 | | | _ | Other Per | rsonnel on Site: | MacDonald Miller (M | IM) | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | |
| | | | | | | • | | · |

WORK DESCRIPTION: Removing mastic on third floor. On the first floor loading out waste. Second floor removing interior doors and windows and contents cleaning.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat, COVID masks outside the containment.

METHOD OF REMOVAL: wet methods manual and saws, Grinder with HEPA attachment.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 One worker in room 168 wrapping gray storage bins in poly sheeting for disposal. One worker bagging up the metal framing from the office windows in the 2nd floor hallway. One worker is removing the glass windows from offices 289 with a prybar and razor blade. Two workers in room 283, one is on the mobile scaffolding removing the metal ceiling frame. One is on the ground using a squeegee to wipe fallen fireproofing in the floor. One worker in the second-floor cleaning room wet wiping the wheels on the black plastic drum cases.

0745 Level 3: Ten workers observed in containment. 1 worker is adding plastic wrap to east walls underneath windows. 2 workers are grinding the mastic off the last quarter of the student lounge. 1 worker removing carpet from floor hatches in the NW corner of the 3rd floor. 5 workers are removing server floor paneling and removing the mastic with a chemical. Yesterday 45 were removed from the floor and at the time of observation 24 panels have been cleaned and set aside. One worker is walking around and doing general supervision of grinding and mastic removal from flooring.

0845 PBS visually confirms that the containment has been removed from Cascade 431 and that Dickson's padlock is securing the door to 432.

0850 One worker in Parking lot A sweeping up leaves and other debris around the conexs.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| | |
| | |
| | ^ |

The individual signing certifies that the above information is correct and accurate.

Signature: Claire Tsai

Date 11/16/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/16/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0855 Johnson controls on site to take fire system offline. PBS, Dan and electrician (MM) and Johnson controls employee look at fire panel in Olympic south, Olympic North and Cascade Level 2.

0930 Two workers in room 283, one is on top of the mobile scaffolding removing the metal framing and lay in ceiling tiles and placing them into a poly bag. The other is on the ground bagging old pieces of poly into ACM bags. One worker in room 288 bagging the removed office glass windows and wrapping them in poly sheeting. One worker in room 264 wrapping removed office doors in poly sheeting. One worker in the second floor cleaning room using a razor to scrape off adhesive and stuck on backing off of framed artwork.

0945 MM electrician, Johnson controls employee and PBS in Olympic South mechanical room at fire panel. MM employee is performing all work contacting panel Johnson controls instructs work from a distance. PBS observing work.

1000 Nine workers observed, 7 are working on stripping the server floor panels. All 45 pieces from initial sections removed have been cleaned. 2 workers are cleaning out the grinder after finishing the student lounge.

1000 Johnson controls, MM electrician, and PBS revisit panels in Olympic North and Cascade.

1020 Johnson controls off site. Fire system for Olympic south has been taken out of the loop from the main campus.

1030-1115 Workers break for lunch and return to work.

1200 Return 3 Roland units to Jim butler in C247.

1240 One worker in 271 corridor removing glass from door relite. One worker in 288 office wrapping removed glass panels in ACM bags for disposal. One worker in 264 wrapping doors from level 2 in poly sheeting for disposal. One worker in cleaning room HEPA vacuuming artwork. Two workers in 283 removing ceiling tiles and grid system and wrapping for disposal.

1345 Ten workers observed. 2 are grinding the mastic off the floor in the old 331 corridor. 6 workers are removing mastic from the last 5 server floor tiles. Tiles are being temporarily replaced in-floor to make room for additional tile removal. 1 worker is HEPA vacuuming remaining debris from wall cavity on the SE wall.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS, MM, and Corey off site. Doors locked, generator off.

Signature: White Total

Name: Claire Tsai

Date 11/16/21



| Asbestos Contractor: Dicks | on | | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|--------------|-----|-----------------|--|--|---|-------------------|-------------------------|-------------|-------------|
| PBS Site Observer(s): Claire Cameron Budnick, Gregg M | | rph | y, Peter Stensl | and, | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: | | | Date: 1 | 1/17/21 | |
| | | | | | | Page 1 | of 2 | Time | 0600 | am |
| Contractor on Site Personne | el: | | | | | | | | | |
| Project Manager | Yes N | lo | Supervisor | Yes | No | Summa | ry Phase Status: | Level 3 mastic removal | and load ou | ıt. Level 2 |
| Workers | Yes N | lo | Name: Core | y Foust | | demo a | nd contents clea | ning. Level 1 load out. | | |
| How Many? +22 | | | | | | Other P | ersonnel on Site: | MacDonald Miller (MN | M) | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | | | |
| | | | | | | | | | | |

WORK DESCRIPTION: Level 3 mastic removal on third floor and cleaning server panels. On the first floor loading out waste. Second floor removing Lay in ceiling tiles and contents cleaning.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat, COVID masks outside the containment.

METHOD OF REMOVAL: wet methods manual and saws, Grinder with HEPA attachment(Level 3 floor), chemical (Level 3 server panels).

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 Levels 1 and 2: Two workers unloading ACM bags from the 2nd floor into room 168 and applying generator tags to the bags (two carts, one per person). Three workers in the hallway by the music rooms placing bagged waste into a clean second bag and loading them into push carts for load out. One worker in the 2nd floor cleaning room wet wiping and HEPA vacuuming a mat cutter and artwork.

0715 PBS and Corey check on the contents in Cascade 532. The room is approximately 80% full. Some of the contents have been used by the college and returned to the room for storage.

0720. Level 3: Eight workers observed in containment, with 2 runners who remain outside to carry waste to the loadout. 2 are working on grinding more of the carpet mastic from the 331-hallway area. 2 workers are removing 42 server floor tiles and will be cleaning them today. 3 workers are loading out waste bags. Bags are being placed in a second bag and wetted before being loaded out.

0900 Levels 1 and 2: One worker in room 168 disassembling the desk and various electrical components for disposal. The paint in the ECE is still drying on a poly sheet before it can be disposed of. 2 MM workers testing the breakers against electrical components on the Room 266 server rack. 2 workers in 283 bagging up wooden pieces from the wall. One worker in 289 bagging up door hinge and components.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claire Tsai Date 11/17/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/17/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0945 Level 3: Three workers removing mastic from server floor tiles in what was formerly 323. 1 worker HEPA vacuuming room 326 after grinding. 1 is securing plywood over an in-floor cavity.

1010 Fire System West employee on site to drain fire system.

1030-1115 Workers break for lunch and return to work.

1200 PBS continue to document Level 1 contents for inventory. One worker assists PBS in moving cleaned contents from the Level 2 clean room to a connex for storage until it can be returned to an occupant or the college.

1310 Level 1 and 2: One worker constructing a decon room on the first floor. Two workers inside room 168 discussing load out procedures. One worker in the 2nd floor cleaning room doing detail cleaning on artwork. One worker picking up various screws, window frames and door components in the hallway across from room 275. Two workers in room 283 bagging dismantled wooden wall components for disposal.

1320 Level 3: Seven workers observed in containment. 3 are working on finishing removing the mastic on the server flooring. 2 workers are grinding the mastic off the floor in what was 326. 1 worker is securing plywood over a different infloor cavity. 24 panels have been cleaned.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Signature: Clavice Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai

Date 11/17/21



| Asbestos Contractor: Dic | Asbestos Contractor: Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | | |
|--|------------------------------|----|------------|--|--|---|-------|------|---------|
| PBS Site Observer(s): Claire Tsai, Janet Murphy, Peter Stensland, Cameron Budnick | | | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 11/18, | | | 1/18/21 |
| | | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: Level 3 mastic removal and load out. Level 2 | | | |
| Workers | Yes | No | Name: Core | y Foust | | demo and contents cleaning. Level 1 load out and inventory. | | | |
| How Many? +23 | | | | | Other Personnel on Site: MacDonald Miller (MM) | | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | Olympic Peninsula Construction (OPC) reclad contractor working on Olympic South Exterior. Separate project and job site. | | | | | |
| | | | | | | | , , , | • | |

WORK DESCRIPTION: Removing carpet mastic on third floor. Second floor removing interior doors and windows, contents cleaning, prep work on scaffolding (Rm 283). First floor wet wiping and loading out waste.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat, COVID masks outside the containment.

METHOD OF REMOVAL: wet methods manual and saws, Grinder with HEPA attachment.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0645 Level 1 and 2: One worker inside room 168 bagging general contents from the room for disposal. One worker across from room 266 taking down ceiling tiles and bagging them, a second worker is spraying down the ceiling tiles with a Hudson, excess debris is being vacuumed with a HEPA vacuum. One worker in the 2nd floor cleaning room HEPA vacuuming papers and books to be returned. 3 workers in room 283, two are on top of the mobile scaffolding removing sections of the wooden slats on the wall. One is on the ground cutting the pieces so that they can fit into a bag for disposal.

0720 Level 3: Nine workers observed in containment with 1 sweeping in the dressing room (outside containment). 1 is removing roof exhaust vents inside the student lounge. 2 are grinding mastic from what used to be the hallway leading to the student lounge. 5 workers are finishing the last 4 server floor tiles from the previous workday. Workers plan to pull more panels today and continue removing mastic.

0835 Two workers leaving the east stairwell after bringing in supplies for the 3rd floor. One worker is deconning out of the first level containment. Corey and one worker on the stairs discussing ideas for removing the large fish painting in the northwest stairwell. One worker outside the clean room cleaning off the filter in the HEPA vacuum with another HEPA vacuum. One worker in the hallway outside room 275 removing ceiling tiles. One worker in room 284 doing general housekeeping. Two workers in room 283, one is cutting wooden pieces with a Sawzall for disposal, and one is getting into

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1/2/3

1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature: Claire Tsai

Date 11/18/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/18/21 |
|---|-----------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer | Page of |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

a harness for work on the mobile scaffolding. One worker in the second-floor cleaning remove removing excess paper from the back of the artwork frames.

1000 Level 3: Grinding has been completed in room next to bathrooms with touchup needed to be completed in a few areas. Grinding activities have moved to room 327. 1 worker is breaking down conduit to place into waste bags. 1 worker is pulling conduit down from the ceiling in the former server room. 6 workers cleaning the next set of 45 server panels. Workers have completed 19 panels.

1030-1115 Workers break for lunch and return to work.

1200 Levels 1 and 2: One worker in the 2nd floor cleaning room wet wiping the inside of the frame on a picture. Two workers in the main hallway by room 264 and room 275 bagging ceiling tiles and metal frames into poly bags for disposal. Two workers in 283 doing general housekeeping.

1220 PBS is conducting a smoke test to assess the buildings negative pressure with smoke tube. Negative pressure observed at all entries/ exits and observed penetrations of containment.

1330 Levels 1 and 2: One worker in room 168 unloading ACM bags filled with ceiling tiles and ceiling grid. One worker in the second-floor cleaning room HEPA vacuuming sheet music and books. One worker by 289 bagging ceiling tiles. One worker in room 285 doing general housekeeping. Two workers in the rear hallway near rooms 283/284 doing general housekeeping.

1340 Level 3: Eight workers observed. 1 is HEPA vacuum the hallway outside the electrical room. 4 workers are finishing removing the carpet mastic from the final two server floor panels for the day. 2 workers are finishing grinding in 328 as the final section for the day. 1 worker is removing conduits from ceiling.

1430 Workers off site for the day.

1500 Corey and MM off site.

1530 PBS off site. Doors locked, generator off.

Signature: Clause Taxai

Name: Date 11/18/21



| Asbestos Contractor: Die | ckson | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|-------------------------------------|------------------|--------|------------------|------------|---|----------------------|------------------|---------|--|
| PBS Site Observer(s): Cla Murphy | ire Tsai, Toan N | lguye | n, Peter Stensla | and, Janet | PBS Project No.: 40535.4 DES Project No.: 2021-1 | | Date: 11/1 | 19/2021 | |
| | | | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Persor | nnel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | Level 3 mastic remov | al. Level 2 Demo | o and | |
| Workers | Yes | No | Name: Core | y Foust | contents cleaning. Level | 1 load out. | | | |
| How Many? +24 | | | | | Other Personnel on Site | : | | | |
| Air Monitoring Personnel | on site: PBS/D | icksor | า | | MacDonald Miller (MM) | | | | |
| | | | | | | | | | |

WORK DESCRIPTION: Removing carpet mastic on third floor and cleaning server floor panels. Second floor removing ceiling tiles and grid from hallway and cleaning contents, HVAC and Gypsum wallboard removal (Rm 283). First floor loading out waste.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Wet methods, manual removal with pry bars, mechanical removal with grinders with HEPA vacuums, chemical on server floor mastic.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 Level 1: Two workers outside of the first-floor containment loading out ACM bags into the forklift bin. One worker inside containment in room 168 passing out ACM bags.

0710 Levels 1 and 2: Corey noticed some condensation and water on the floor in rooms 181 and 183 near the windows. Wallboard will be removed as part of the project later on, water on floor wiped up. Two workers outside room 168 continue to load out ACM bags (all bags are labeled with generator tags). One worker is inside passing the bags to the workers outside containment. One worker bringing a loaded cart of ACM bags out from the elevator to room 168. Four workers inside room 283 wrapping HVAC ductwork in poly sheeting. One worker inside the 2nd floor cleaning room wiping the inside of a picture frame with a wet Q-tip.

0750 Level 3: Five workers area cleaning server floor panels with chemical and flat edge blades to remove mastic. 4 workers using grinders fitted with HEPA vacuums to grind down the cement floor. Workers follow behind the grinder with a HEPA vacuum. One worker wrapping waste material in sheet poly. One worker suiting up to go into containment, one worker carrying 2x4s up into the load out area for use inside containment.

0900 One worker leaf blowing around the site.

0930 PBS continues to document level 1 contents for inventory in rooms 169, 171, and 172.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: (Luciu Tsu.)
Name: Claire Tsai

Date 11/19/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/19/2021 |
|---|--------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1030-1115 Workers break for lunch and return to work.

1145 Levels 1 and 2: One worker bagging contents for disposal in room 171. One worker in the second-floor cleaning room HEPA vacuuming sheet music and books. One worker in 264 wrapping doors in poly sheeting for disposal. One worker outside the restrooms bagging metal ceiling grid system for disposal. Two workers in room 283 one is on top of the mobile scaffolding cutting out HVAC ductwork with a sawzall the other is on the ground spotting and helping to plug in power tools as needed.

1200 Level 3: There are six workers loading out double bagged ACM waste bags, two in the clean room on the 3rd floor, two on the staircase, and two at the load out window on skybridge to the Cascade building. Each bag is wet wiped and the inside is sprayed with water before being loaded out. There are three workers by the west wall of the 3rd floor removing yellow mastic from metal floor hatches. Two workers are using a grinder with a HEPA vacuum to remove yellow mastic on concrete.

1330 Levels 1 and 2: Two workers in room 283 cutting up and bagging HVAC ductwork. Two workers in room 264 wrapping doors in poly sheeting for disposal. One worker tracking down and altering the negative air machines inside containment to improve air flow. There is now a 3rd negative air machine blowing out of the ECE. The negative air exhausts have now been taped on the inside of the containment (to reduce makeup air and improve draw throughout the containment); overall negative pressure appears to be improved from this (doorways are drawing in even more than usual).

Level 3: There are 7 workers on the 3rd floor doing general housekeeping in preparation for the end of the day.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. MM and Corey are still on site and will lock the doors and shut off the generator.

Signature: Clause Tossii
Name: Claire Tsai



| Asbestos Contractor: Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|----------------------------------|----|------------|--|---|--------------------------------------|----------------------|------------------|--------|
| PBS Site Observer(s): Claire Tsai, Toan Nguyen, Peter Stensland, Janet Murphy | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: | | | 11/22/21 | | |
| | | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nel: | | | | <u>.</u> | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: | Level 3 mastic remov | /al. Level 2 der | mo and |
| Workers | Workers Yes No Name: Corey Foust | | | | | contents cleaning. Level 1 load out. | | | |
| How Many? +26 | | | | | | Other Personnel on Site | : | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | MacDonald Miller (MM) | | | | | |

WORK DESCRIPTION: Level 1: Continued load-out of asbestos-contaminated materials. Level 2: removal of light fixtures and whiteboards.

Bagging/wrapping demolished materials. Level 3: Mastic removal via grinders or chemical.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat, boots, ear plugs, and protective eye wear

METHOD OF REMOVAL: Manual wet methods, chemicals, and grinders

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 Waste load-out continues from level 1 via room 168 and from Level 3 via the Level 2 skybridge between Olympic South and the Cascade Building, Bagged and labeled materials are being transported to the Parking Lot A construction area storage containers with forklift bin.

0800 Level 2: Workers continue to cut-up and bag or wrap sheet metal HVAC sections and wrap removed door for disposal.

Level 3: Twelve workers are currently this level. 2 workers are using hand grinders throughout the floor to detail/remove mastic in hard-to-reach spots. 1 worker is prepping equipment and materials. 2 workers are using the large HEPA-filtered walk-behind grinder for floor mastic removal on concrete floor surfaces. 7 workers are using hand scrapers and chemical to manually remove mastic on removed server panels.

0925 Corey and one worker move 8 tables (recovered from Room 278) from clean room to hall near C512 for college to pick up. These tables have passed PBS visual inspection and representative microvac sampling used as a screening tool. College notified tables have been returned and are ready for use.

| BUILDING/AREA/LOCATION |
|----------------------------|
| Olympic South Levels 1/2/3 |
| |
| |
| |

The individual signing certifies that the above information is correct and accurate.

Signature: Date 11/22/21 Name: Mike Smith



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/22/21 |
|---|---------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0950 Level 2: One worker going through the floor documenting work progress. 1 worker is in the cleaning room HEPA vacuuming papers. 2 workers are in Room 270 removing tube lights from the fixtures. 1 worker is in the hallway outside of Room 275 removing light coverings. 2 workers are in Room 283 bagging removed GWB and insulation from the west wall. 2 workers are in Room 284 removing excess wood from the wall and bagging it in poly sheeting.

1030-1115 Workers break for lunch and return to work.

1130 Level 2: One worker is removing light fixtures from the hallway offices. 1 worker is in the 2nd floor cleaning room HEPA vacuuming papers and sheet music from room 281.

The majority of workers are not in containment, they are moving the previously cleared pianos from room 531 to room 533 in the Cascade building as requested by the college.

1245 Level 3: Ten workers on this level. 2 continue to use hand grinders and chemical to remove mastic in hard-to-reach spots. 6 workers are using hand scrapers and chemical to remove mastic on server floor panels. 4 workers are using brooms and HEPA vacuums to keep the work area clean.

1330 PBS Collects microvac samples of Room 264 contents in the level 2 clean room.

1414 One worker in the cleaning room HEPA vacuuming files from Room 281. 2 workers in hallway housekeeping, 1 worker is bagging light fixtures for disposal. 1 worker is in Room 275 removing whiteboards from wall to be disposed. 5 workers exiting Rooms 283/284 work area for the day. Room 283, approximately 30% of the west wall gypsum wallboard has been removed. Room 283 lights are fluorescent and will be disposed. PBS still investigating LED light fixtures from Room 284 to determine if they are cleanable.

1420 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1445 Corey F. off site

1500 MM off site

1530 PBS off site. Doors locked, generator off.

Signature:

Name: Mike Smith Date: 11/22/21



| Asbestos Contractor: Dickson PBS Site Observer(s): Claire Tsai, Peter Stensland, Cameron Budnick | | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|----------------|--------|------------|---------|---|--------------------------|----------------------|-----------------|--------|
| | | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 11/2 | | | | |
| | | | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Person | nnel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: | Level 3 mastic remov | al. Level 2 der | no and |
| Workers | Yes | No | Name: Core | y Foust | | contents cleaning. Level | 1 load out. | | |
| How Many? +26 | | | | | | Other Personnel on Site | | | |
| Air Monitoring Personne | on site: PBS/D | icksoı | n | | | MacDonald Miller (MM) | | | |
| | | | | | | | | | |

WORK DESCRIPTION: Level 1: Continued load-out of asbestos-contaminated materials. Level 2: Demolish GWB and wrap/bag demolished HVAC ductwork. Level 3: Mastic removal via grinders or chemical.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0640 Level 1: Four workers in room 168, three are bringing down bagged/wrapped materials from Level 2 and unloading them. 1 worker is attaching generator tags with spray adhesive to the bags.

Level 2: One worker is removing GWB adjacent to the stairs, the debris is immediately bagged after removal and the area is HEPA vacuumed. 1 worker in the cleaning room HEPA vacuuming music sheets. 7 workers are in the south corridor and Rooms 283/284 work area. 5 of those workers are helping to double bag wallboard and materials for load out. 1 is doing an inspection on the scaffolding in Room 283, and the other is using a prybar to remove GWB in the same room.

0710 Three workers loading out asbestos bags. 1 worker is inside of Room 168 passing out ACM bags to 2 workers outside which are then loading the bagged materials into the forklift bin. The forklift is transporting the bags to the storage containers in parking Lot A.

0715 Level 3: Two workers are grinding (hand-held grinders) and HEPA vacuuming floor on southwest wall of third floor. 4 workers are removing the mastic from the metal server floor panels. 40 metal floor panels have been removed from the floor. 7 panels have been cleaned. They have finished Room 323 and are now working on Room

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1/2/3

1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date 11/23/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/23/2021 |
|---|--------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

324. 1 worker is grinding hard-to-reach spots with a hand grinder that the large grinder could not reach. 1 worker is using the airless sprayer to keep dust down during mastic removal. 1 worker removing mastic from floor hatch in Room 329. 8 workers observed in containment. No crew seen assisting from outside.

0750 One worker is in the Level 1 Mechanical Room setting up additional temporary power for the building.

0825 One worker is deconing out of the Level 1 containment. Additional negative air machines have been added, 1 by room 171, 1 going out of the ECE, and 1 going out of the ECE kitchen.

Level 2: Two workers in Room 264 wrapping the HVAC ductwork in poly sheeting. 1 worker is in the cleaning room HEPA vacuuming and wet wiping music sheets, 1 worker is in Room 270 cutting a hole through the wall to allow for better air flow. 1 worker is emptying out locker contents and disassembling lockers (All locker contents documented in the inventory). 4 workers are in room 283, two on the mobile scaffolding removing GWB from the north wall, 2 on the ground cutting apart with a Sawzall and bagging metal studs.

0900 Level 3: One worker is continuing to mastic removal from the floor panels in Room 329. Progress continues grinding the above noted section with same 2 workers. 4 workers continue to work on server floor panels. 1 worker is grinding around floor vents and paneling that can't be reached by the push grinder. 21 of 40 tiles have had the mastic removed.

1030-1115 Workers break for lunch and return to work.

1045 PBS is conducting a smoke test on the 2nd floor of Olympic South. The purpose of the testing is to confirm adequate air movement is occurring throughout the floor and that the negative air machines are cycling all of the air in the space at least every 15 minutes.

1130 Three workers in Room 284 are changing out prefilters for the negative air machines. 5 workers are in 283 doing general housekeeping. 3 workers are inside of Room 264 wrapping demolished sheet metal ductwork in poly sheeting.

1210 Level 2: Work efforts continue as noted, however, all the contents and sheet music cleaning has been completed in the cleaning room.

Level 3: One worker is spraying down dust with airless sprayer. 4 workers have finished removing mastic from the 40 panels pulled and are replacing them on the server floor. Dickson is planning on starting removal of the next grid of panels today. 2 workers are grinding the mastic in Room 322. 1 worker is removing mastic from floor hatch in previous room 327.

Signature:

Name: Mike Smith Date: 11/23/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/23/2021 |
|---|---------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1350 One worker continues working removing mastic from the floor panels in previous Room 327. Mastic grinding is almost complete on the third floor. Roughly 10-foot by 7-foot SF of mastic on concrete remains to be ground out. General housekeeping: 1 worker is sweeping up dust from around the floor and another is HEPA vacuuming behind the grinder. Roughly 30 panels have been removed from the floor and are being cleaned. 9 panels have been cleaned at time of observation. 5 workers are scraping mastic off server floor panels.

1420 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers leave site for the day.

1500 Corey F. off site. MM off site. PBS off site. Doors locked, generator off.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date: 11/23/2021



| Asbestos Contractor: Di | ckson | | | Project Name: Olympic | South Abatement & | Repairs | |
|--------------------------------------|---|--------------------------|---------------|--|-------------------------|-----------------|---------|
| PBS Site Observer(s): Cla Budnick | PBS Site Observer(s): Claire Tsai, Mike Smith, Peter Stensland, Cameron Budnick | | d, Cameron | PBS Project No.: 40535 DES Project No.: 2021- | | Date: 11 | 1/24/21 |
| | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Persor | nnel: | | | | | | |
| Project Manager | Yes N o | Supervisor | Yes No | Summary Phase Status | :: Level 3 mastic remov | al. Level 2 Gyp | osum |
| Workers | Yes No | Yes No Name: Corey Foust | | wallboard disposal. Levels 1 and 3 load out. | | | |
| How Many? +25 | | | | Other Personnel on Sit | e: | | |
| Air Monitoring Personnel | on site: PBS/Dicks | on | _ | MacDonald Miller (MM | 1) | | |

WORK DESCRIPTION: Level 3 mastic removal with grinding and chemical, cleaning server floor panels. Level 2 wallboard and light fixture demo Level 1 load out and contents inventory.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0650 Levels 1 and 2: Two workers inside room 264 wrapping HVAC ductwork in poly sheeting for disposal. Two workers are running bagged waste from the music rooms down to room 168 for loadout later in the day. Seven workers in the 283/284 work area loading out wooden boards wrapped in poly sheeting and bagged GWB / insulation from room 283.

0705 Level 3: Seven workers observed in containment. 2 are grinding the mastic from the last section of flooring in the server room. 3 workers are cleaning server floor panels. 20 of the 30 pulled panels have had the mastic removed. 2 workers are grinding mastic in small spots where the grinder couldn't reach.

0920 Levels 1 and 2: Two workers in room 264 wrapping HVAC ductwork in poly sheeting for disposal. One worker removing light fixtures from the hallway outside room 290. One worker in the main hallway wrapping light fixtures in poly sheeting for disposal. 6 workers are in room 283 picking up general debris from the GWB removal. One worker is going around spraying down the area with a Hudson, 3 are bagging materials, two are sweeping. One worker in room 283A removing the foam sound dampening from the walls and bagging it for disposal.

0945 Level 3: Two workers are removing the coverings over a gap in the floor where the student lounge started met the 331 hallway to remove the mastic on the margins underneath the covering. 1 worker is grinding the mastic around floor panels where the grinder couldn't reach with a handheld grinder connected to a HEPA vacuum. 4 workers are replacing

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | ^ |

The individual signing certifies that the above information is correct and accurate.

Signature: Claud Tsui.
Name: Claire Tsai

Date 11/24/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/24/2021 |
|---|--------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

the completed panels and will begin removal of the next set. 1 worker is cleaning the last panel and one more laying new plastic drop cloth to store tools.

PBS continues to inventory contents on the first floor (rooms 166, and 185).

1025 Two workers in the parking lot assisting Le May remove one of the waste containers from the lot.

1030-1115 Workers break for lunch and return to work.

1100 Level 2: PBS is conducting micro vac clearances of contents in the 2nd floor clean room.

1150 Level 3: Six workers in containment. 3 are double bagging waste and passing it out to an additional 3 workers who are outside containment. 2 are doing touch-ups with the grinder in the student lounge. 1 is grinding down left over mastic around the floor grate in 327

1215 PBS off site for the day. MM and Dickson still on site.

Signature: Claud Tsai

Name: Claire Tsai



| Asbestos Contractor: Die | ckson | | | | | Project Name: Olympic S | outh Abatement & F | Repairs | |
|--|-------------------|---------|-----------------|---------|----|--|-----------------------|--------------|-----------|
| PBS Site Observer(s): Cla Cameron Budnick | ire Tsai, Kaitlin | Souk | up, Peter Stens | land, | | PBS Project No.: 40535.4 DES Project No.: 2021-19 | | Date: 11 | 1/29/30 |
| | | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Persor | nnel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: L | evel 1: Load-out. Lev | el 2: GWB de | molition. |
| Workers | Yes | No | Name: Core | y Foust | | Level 3: Floor mastic rem | oval. | | |
| How Many? +23 | | | | | | Other Personnel on Site: | | | |
| Air Monitoring Personnel | on site: PBS/D | Dicksor | n | | | MacDonald Miller (MM) | | | |
| | | | | | | | | | |

WORK DESCRIPTION: Level 1: Continued load-out via Room 168. Level 2: GWB demolition, bagging and loading-out. Level 3: Continued mastic Removal on concrete and metal flooring.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0650 Level 2: Three workers assessing mechanical wall in preparation for demolition of the northern facing wall in Room 283.

0700 Level 2: Two Dickson workers bringing in supplies. 3 workers by Room 289 removing GWB. 1 worker is removing the GWB with a pry bar, another is holding a bag for disposal, and the third worker double bags it and seals the top with duct tape. 2 workers are in Room 283 removing GWB from the north wall. 1 worker is inside Room 283A removing ceiling tiles. 1 worker in the 283/284 corridor double bagging ACM bags.

0740 Level 3: One worker is HEPA vacuuming floor and corners in the Electrical Room. 2 workers are checking completed server floor tiles for any remaining mastic. 4 workers are removing mastic from ~32 server floor tiles. 27 of which are cleaned. 1 worker is grinding and removing mastic from hard-to-reach spaces and floor hatches along Room 326. Main grinding of mastic on the third floor has been completed.

0805 A college staff member is moving the tables placed in the hall near CAS 512 into storage. PBS verifies that the piano benches were moved into Room 533. All stored contents from C531 have been moved to C533.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| Asbestos contaminated building materials from Levels 1/2/3 | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 11/29/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/29/2021 |
|---|--------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| WORK DESCRIPTION: See page 1 above | | |
| OBSERVATIONS: | | |

0915 Level 2: One worker is bringing ACM bags down to room 168 for loadout. 1 worker is removing the ductwork from the hallway across from Room 288. 4 workers are in Room 283, 2 are on mobile scaffolding removing GWB and metal framing and 2 on the ground, of which, 1 is spraying water with a Hudson the other is bagging waste for disposal. 2 workers in Room 283A continue removing ceiling panels. 3 workers in Room 269 removing and bagging GWB that separates the art storage room from the office.

0940 Level 3: Workers continue removal of mastic from server floor tiles. The 32 tiles have been cleaned and replaced in the floor with another 40 tiles undergoing mastic removal. 17 of those have been completed.

1015 Dickson fuel truck on site to refill generators.

1030-1115 Workers break for lunch and return to work.

1140 Level 2: Two workers bringing down ACM bags to Room 168 in rolling carts for later loadout. 5 workers double-bagging ACM bags outside of Room 283. 2 workers are inside of Room 283 removing GWB along the north wall. 4 workers are in Room 269 and the corridor outside, 2 are demolishing GWB and 1 is bagging the contents and wetting the inside with a Hudson sprayer. The other worker is sealing the bag shut with tape and loading it into a cart for disposal.

1210 Level 3: Four workers observed in the containment. The only observed activity is cleaning of the server floor tiles. As of now 28 tiles have been completed from room

1330 Level 1: Two workers are deconning out of the enclosure.

Level 2: Three workers near Room 269 bagging materials cut out from walls to improve air flow. 5 workers are in Room 283, 1 on the mobile scaffolding removing GWB and 4 on the ground bagging contents for disposal.

1350 Level 3: Seven workers observed. The above-mentioned section of tiles has been completed and the next 40 panels have been pulled and are being cleaned. 13 have been completed today.

1420 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers leave site for the day.

1445 PBS off site. MM and Corey still on site will lock doors and shut off generator.

Signature:

Name: Mike Smith Date; 11/29/2021



Date: 11/30/2021

| on | | | | | | | | |
|--------------|------------------|---------------------------|--|---|---|--|---|---|
| | | | | | Project Name: Olympic S | South Abatement & Re | pairs | |
| Tsai, Toan N | Nguye | n, Peter Stensla | and, Kait | tlin | • | | Date: 1 | 1/30/ |
| | | | | | Page 1 of 3 | Time | 0600 | an |
| l: | | | | | | | | |
| Yes | No | Supervisor | Yes | No | Summary Phase Status: I | evel 1: Load-out. | | |
| Yes | No | Name: Corey Chris Drea | Foust/ | | • | | | val. |
| | | | | | Other Personnel on Site: | | | |
| site: PBS/D | icksor | า | | | MacDonald Miller (MM) | | | |
| | l: Yes Yes | I: Yes No Yes No | l: Yes No Supervisor Ves No Name: Corey | I: Yes No Supervisor Yes Yes No Name: Corey Foust/ Chris Drea | Yes No Supervisor Yes No Yes No Name: Corey Foust/ Chris Drea | DES Project No.: 2021-19 Page 1 of 3 I: Yes No Supervisor Yes No Summary Phase Status: Level 2: GWB/HVAC dem Waller Pit Site: Roof Air HOther Personnel on Site: Other Personnel on Site: | DES Project No.: 2021-192 Page 1 of 3 Time I: Yes No Supervisor Yes No Summary Phase Status: Level 1: Load-out. Yes No Name: Corey Foust/ Chris Drea DES Project No.: 2021-192 Page 1 of 3 Time Summary Phase Status: Level 1: Load-out. Level 2: GWB/HVAC demolition. Level 3: Floor of Waller Pit Site: Roof Air Handing Unit demolition. Other Personnel on Site: | DES Project No.: 2021-192 Page 1 of 3 Time 0600 I: Yes No Supervisor Yes No Summary Phase Status: Level 1: Load-out. Ves No Name: Corey Foust/ Chris Drea Date: 1 Page 1 of 3 Time 0600 Summary Phase Status: Level 1: Load-out. Level 2: GWB/HVAC demolition. Level 3: Floor mastic remowable Pit Site: Roof Air Handing Unit demolition Other Personnel on Site: |

WORK DESCRIPTION: Level 1: Continued load-out via Room 168. Level 2: Continued GWB and HVAC demolition, bagging and loading-out. Level 3: Continued mastic removal on concrete and server floor panels. Waller Pit Site: Demolish large Air Handling unit previously removed from Olympic South roof. WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building unless otherwise noted. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 Corey F is walking around the perimeter of the building checking on the negative air exhausts and general worksite conditions.

0730 Levels 1 & 2: Two Dickson workers going throughout the first and second floor changing out the pre filters on the negative air machines. 3 workers are inside Room 269 removing GWB walls, fiberglass insulation, and door framing. The contents are then bagged for disposal. 6 workers are in Room 283, 1 is on the mobile scaffolding doing general housekeeping, 3 are on the ground picking up debris, 1 worker is using a hose to spray down materials, and 1 worker is loading bagged materials into a rolling cart for loadout.

0800 Level 3: Five workers are inside the enclosure. 1 worker in the process of leaving the closure. The other 4 are using chemicals along with hand scrapers to remove yellow mastic on metal floor tiles.

0940 Level 1: One worker inside room 168 dismantling a lateral storage shelf with a drill and wrapping the pieces in poly sheeting for load out.

Level 2: Six workers are in Room 283, 2 are on mobile scaffolding removing GWB, fiberglass insulation, and metal studs from the wall with prybars and Sawzalls, the 4 workers on the ground are bagging the debris and doing

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | Waller Pit Site |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Classic Tsai Name: Claire Tsai

Date: 11/30/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/30/2021 |
|---|---------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | · | · |
| | | |
| OBSERVATIONS: | | |

general housekeeping. 1 worker is directing two workers in the hallway outside, one is grabbing a hose to spray some water in the air. The other is grabbing additional PPE. One MM worker is doing a general site walkthrough in the containment.

0940 Level 3: One worker is leaving the containment. 4 workers in the SW corner scraping mastic off of server floor panels. 20 tiles are clean stacked sitting off to the side. 4 workers currently have 6 tiles on work benches and 2 additional tiles off to the side.

1030-1115 Workers break for lunch and return to work.

1130 Level 1: Three workers are inside of Room 168, 1 is wrapping lockers in poly sheeting, the other 2 are cleaning the space and laying down poly in preparation for establishing a Level 1 cleaning room.

Level 2: Six workers are inside of Room 283, 3 are on the mobile scaffolding (two are removing GWB/metal studs/fiberglass insulation, 1 is helping to pass down the materials), 3 workers on the ground are wrapping the metal studs in poly, and bagging GWB sections.

1200 Three Dickson workers adjusting fuel tank for heater (500-Gal Diesel). 1 forklift operator, 2 spotters, and Corey in the area. Heater and fuel tank are placed in the north area on the west side of Olympic South. Heated air will enter through the Level 1 west double doors and flow through Levels 1 and 2.

Level 3: Four workers are in the southwest corner scraping mastic off of server floor panels; 6 tiles at a time are placed on work benches. Tiles from the morning have been replaced and 30 more have been removed for cleaning. Bulk of carpet mastic has been removed with grinder, aside from some tight spaces.

1320 Level 1: Two workers inside room 168 hanging poly vertically to create a cleaning room.

Level 2: Six workers are in room 283 doing general housekeeping (HEPA vacuuming, putting away tools, etc). 2 workers are building a new separation zone between 283, 284 and the rest of the hallway to reduce track out of fireproofing into the rest of the work area. 1 worker is wet wiping the steps from Level 1 to Level 2. 1 worker is retrieving supplies from the Level 2 cleaning room to bring down to the new level 1 cleaning room.

1420 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers leave site for the day.

1445 PBS off site. MM and Corey still on site will lock doors and shut off generator.

Signature: Clave Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai Date; 11/30/2021



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 11/30/2021 |
|---|---------------------------|------------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Dickson Waller Pit Site: Roof Air Handling Unit Disposal

0940 PBS has arrived at Dickson's Waller Pit site. There are 3 workers on site. 1 supervisor, Chris D. and 2 workers are in high vis gear and half face respirators. Workers using Sawzalls to cut the HVAC fan unit, previously removed from the roof of Olympic South into smaller sections. Once a smaller section is removed a forklift is used to place it into a lined (poly-sheeting) waste container. 1 worker is collecting personal air samples. There's water truck on site to provide water for dust control while cutting the HVAC fan unit. Work is occurring outside with a regulated area set up with banner tape.

1045 Waller Site: Dickson crew of 3 is on lunch.

1130 Waller Site: Dickson has resumed work and is unwrapping the HVAC fan unit to continue cutting it into smaller sections to load into the lined container. Poly sheeting drop cloths are on the ground around the unit.

1230 Waller Site: Chris suited up in a Tyvek and is, assisting with cutting the HVAC fan unit.

1330 Waller Site: The HVAC fan unit is roughly 50% cut and placed into the lined waste container.

1415 PBS returns from the Waller Site to Pierce College - Fort Steilacoom

Signature: Claure Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai Date; 11/30/2021



| Asbestos Contractor: Dickson | | | | | |
|--|-------------|---------|----------------------------|----------|----|
| PBS Site Observer(s): Claire Tsa Gregg Middaugh | ai, Peter S | Stensla | and, Cameron E | Budnick, | |
| Contractor on Site Personnel: | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No |
| | | | | | |
| Workers | Yes | No | Name: Corey /Chris Drea | / Foust | |
| Workers How Many? +20 | Yes | No | • | / FOUST | |

| Project Name: Olympic South Abatement & Repairs | | | |
|---|--------------------|--------------|-----------|
| PBS Project No.: 40535.488 | | Data: 12 | /1 /2021 |
| DES Project No.: 2021-192 | | Date: 12 | ./ 1/2021 |
| Page 1 of 2 | Time | 0600 | am |
| | | | |
| Summary Phase Status: Leve | l 1: Load-out | | |
| Level 2: GWB/HVAC demoliti | on. Level 3: Floor | mastic remov | val. |
| Waller Pit Site: Completion | of Roof Air Handi | ng Unit demo | lition |
| Other Personnel on Site: | | | |
| MacDonald Miller (MM) | | • | • |

WORK DESCRIPTION: Level 1: Continued load-out via Room 168. Level 2: Continued GWB and HVAC demolition, bagging and loading-out. Level 3:

Continued mastic removal on concrete and server floor panels. Waller Pit Site: Complete demolition of large Air Handling unit previously removed from Olympic South roof.

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building until otherwise noted. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0640 Level 1: Three workers are in Room 168, 1 is bringing down bagged GWB / fiberglass insulation from the second floor for load out. Two workers are staging the ACM bags for load out.

Level 2: Six workers are in the 283/284 work area corridor double bagging GWB / fiberglass / framing debris. Workers are spraying down the inside of the bags with Hudson sprayers before sealing the top. The bags are then loaded into a clean rolling tip bin.

0700 Level 3: Two workers observed in containment. All grinding activities with the large machine are completed and it has been removed. 2 workers are removing the mastic from server floor panels in room 325. 31 panels are completed with 12 to be finished from the current section.

0830 Level 1: One worker outside containment bringing in supplies to the first-floor clean room. Two workers inside room 168. One is preparing materials for loadout the other is bringing supplies into the cleaning room.

Level 2: Five workers in 283. The Level 2 mechanical mezzanine is now open to Room 283, accessible by scaffolding. Workers in this space are now beginning to remove the metal HVAC ductwork and setup lights / other equipment needed for worker safety. 2 workers are moving in and out of Room 283 carrying poly sheeting wrapped metal framing / HVAC metal ductwork to Room 275. Walls in 281 and 282/283A are beginning to be removed with prybars and Sawzalls.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | Dickson Waller Pit Site |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claire Tsai

Date: 12/1/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/1/21 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| . • | | |
| OBSERVATIONS: | | |

0845 Level 3: Two workers inside on the southwest corner continue cleaning the server floor panels.

0905 Two workers in Parking Lot A are closing an ACM dumpster; the liner is closed and marked with asbestos labels and waste generator tags. PBS Project Manager Gregg M. on site.

0950 Level 1: One worker putting on PPE to enter the first-floor containment.

Level 2: Two workers are removing the poly sheeting that made up the Level 2 cleaning in room 265. 2 workers in the LV2 Mechanical Mezzanine removing electrical conduit and other wiring with a Sawzall. 1 worker in Room 283A HEPA vacuuming the floor. Three workers are in Room 281 removing GWB / fiberglass insulation with a Sawzall and pry bar before bagging into ACM bags.

1030-1115 Workers break for lunch and return to work.

1230 Level 3: Four workers in containment. All panels being cleaned from the last observation have been cleaned and placed back in the floor. 2 workers are beginning to remove the last 50 panels from the floor. The other 2 workers are disposing of rags and are prepping the workstation for the next set of panels.

1340 Level 2: One worker is in Room 265 bagging GWB from the wall section that was removed to gain access to the Room 263. 2 workers in the mechanical mezzanine doing general housekeeping in preparation for the end of the day. 4 workers are in Room 283 doing general housekeeping.

1410 Three workers doing general housekeeping from Level 3 down to Level 1 along the stairs. 4 workers rearranging the fencing along the conexes in Parking lot A.

1420 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers leave site for the day.

1445 PBS off site. MM and Corey still on site will lock doors and shut off generator.

Dickson Waller Pit Site: Roof Air Handling Unit Disposal

0815 PBS on-site at Waller Pit Site. 2 workers on site in full PPE for the required work. Both workers are in Tyvek and half face respirators using water to mitigate dust and particulates in the air. They are using reciprocating saws to demolish the HVAC unit. 1 of the workers is using the forklift to remove the cut sections and place them in a poly-lined dumpster.

All sections have been placed in the dumpster. Crew is beginning to clean up and is loading pallets and balling up the remaining poly sheeting. Poly has been disposed of and workers are spot cleaning the ground with a HEPA vacuum. PBS visually inspected regulated area and deems it satisfactory. Crew is removing the banner tape regulated area. PBS is collecting air sampling pumps.

0945 PBS departs site to return to Olympic South Site.

| Signature: Clavice Tsai | |
|-------------------------|---------------|
| Name: Claire Tsai | Date: 12/1/21 |

Λ.



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|--|------------------|--|---|---------------|-------------------------|-----------------------|----------------|----|
| PBS Site Observer(s): Claire Tsai, Peter Stensland, Cameron Budnick, Mike Smith | | PBS Project No.: 40535 DES Project No.: 2021- | | Date: 12 | 2/2/2021 | | | |
| | | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Persor | inel: | | | | | | | |
| Project Manager | Yes | No Supervisor | Yes | No | Summary Phase Status: | Level 1: Load-out, co | ntents cleanin | g |
| Workers Yes No Name: Corey Foust | | Level 2: GWB/HVAC de | molition. Level 3: Floo | r mastic remo | val. | | | |
| How Many? +19 | | | | | Other Personnel on Site | 9: | | |
| Air Monitoring Personnel | on site: PBS/Dic | kson | | | MacDonald Miller (MM |) | | |

WORK DESCRIPTION: Level 1: Continued load-out via Room 168, contents cleaning in Room 168. Level 2: Continued GWB and HVAC demolition, bagging and loading-out. Level 3: Continued mastic detailing on concrete and completion of mastic removal from server floor panels

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 Level 1: Two workers unloading ACM bags in Room 168 from rolling tip bins. One worker outside containment in the clean room talking with the workers inside containment about equipment needs.

Level 2: One worker bagging GWB / fiberglass insulation in Room 269 from the hole cut through the wall. 3 workers are in Room 271 assembling a fall protection barrier out of 2x4s and plywood for the Mechanical Room in 283. 2 workers in are the Mechanical Room removing insulation and HVAC metal ductwork. 1 worker is in Room 283 wrapping ductwork in sheet poly for disposal. 1 worker is in Room 282 removing ceiling insulation. 4 workers are double bagging ACM bags, the inside of the bags is being sprayed with a Hudson type sprayer before being sealed and loaded into a cart to be brought down to Room 168.

0650 One worker carrying 2x4s to build a structure for the new building heater to secure the doorway into containment.

0700 Level 3: Four workers observed on this floor. 3 are cleaning server floor panels and the 4th is replacing cleaned floor panels. 28 panels remaining to be cleaned until all are completed. Negative air pressure appears strong evidenced by poly sheeting being drawn in.

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1/2/3

1 full 40 CY container (ACM bags and wraps) removed from site today

2 full 40 CY containers removed from the Waller Pit site today

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 12/2/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/2/21 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0840 Level 1: One worker in the 168-cleaning room HEPA vacuuming quilts. 1 worker is loading in ACM bagged room contents from the first floor for disposal. 1 worker is disassembling wooden furniture with a drill for disposal. 1 worker is taking site notes and pictures for daily logs.

Level 2: Two workers are in Room 281 removing metal studs with pry bars. 1 worker is in Room 283A removing wires in the ceiling. 3 workers are above in Mechanical Room finishing setting up a wooden guard rail for fall protection. 2 workers are bagging HVAC metal ductwork in poly sheeting on the floor in 283. 1 worker is in Room 164 removing white boards for disposal.

0930 Level 3: Four workers continue stripping mastic off the final 11 server floor panels.

0955 Three Dickson workers are cutting plywood with a Sawzall to create a barrier to secure over the west side double doors (where the heating hoses will attach).

10:15 PBS collects microvac samples of artwork from room 266 of visually cleared contents.

1030-1115 Workers break for lunch and return to work.

1125 PBS walks the Olympic South Building site with Corey, Todd (Dickson) and Dan (MM). Two roof vents from level 2 roof still in place. MM will measure and build roof caps for temporary weather proofing similar to the caps on the level 3 roof.

Level 3: Workers continue mastic removal from server floor panels. A few additional items found for bulk removal during walk through are noted.

1140 Level 3: The final five panels are being cleaned before removal. No change in work activity.

1155 One worker on a ladder on the E side exterior of the building (along the stairwell) applying patch to assist stopping water intrusion issues.

1230 Level 1: One worker in Room 168 cleaning room HEPA vacuuming contents, 1 worker in 168 breaking down contents marked for disposal.

Dan returns to the trailer to update 3 weeks look ahead. Todd, Corey, and PBS enter level 1 and 2 containment to continue walk through.

1300 Todd and Corey exit containment.

Signature: McMa//m/

Name: Mike Smith

Date: 12/2/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/2/21 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1335 Level 1: PBS mark additional contents on level 1 for disposal. One worker is bagging contents from the hallway for disposal outside Room 168. 2 workers are in Room 168, 1 is in the cleaning room wiping down animals encapsulated in epoxy. The other is wrapping fixtures and other furniture from Level 1 in poly sheeting for disposal.

Level 2: One worker is in room 284 removing lights and conduit from the ceiling. Two workers are in Level 2 Mechanical Room disassembling metal ductwork with a drill and Sawzall. Four workers on the ground in 283 two are cutting metal ductwork in half with a Sawzall, 1 is wrapping ductwork in poly sheeting and the other is HEPA vacuuming the floor.

Two heat tubes are now entering the building from the west side, one goes to Level 1 and one to Level 2. The heater is currently running.

1345 Level 3: All panels have been cleaned and the crew is now cleaning all screws that are used to secure server floor panels to the under structure. No change in work activity.

1400-1500 Weekly construction meeting with project team.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 Corey off site. Doors locked.

1530 PBS off site. MM still on site will shut off generator.

Signature:

Name: Mike Smith Date: 12/2/21



| Asbestos Contractor: Dickson | | Project Name: Olympic South Abatement & Repairs | | |
|--|---------------------------------|---|---------------------------------------|--|
| PBS Site Observer(s): Peter Stensland, Cameron Budnick, Mike Smith | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | Date: 12/3/2021 | |
| | | Page 1 of 2 | Time 0600 am | |
| Contractor on Site Personn | nel: | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: Level 1: | Load-out, contents cleaning | |
| Workers Yes No Name: Corey Foust | | Level 2: GWB/HVAC demolition. | Level 3: Final Detail of floor mastic | |
| How Many? +20 | | Other Personnel on Site: | | |
| Air Monitoring Personnel o | on site: PBS/Dickson | MacDonald Miller (MM) | | |
| | | | | |

WORK DESCRIPTION: Level 1: Continued load-out via Room 168, contents cleaning in Room 168, bagging office contents Room 172.

bagging and loading-out. Level 3: Continued floor mastic detailing cleaning

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 Level 1: One worker is in Room 168 passing out ACM bags for loadout. Two workers are outside containment loading them into the forklift bin. 1 worker is in the cleaning room wet wiping and HEPA vacuuming content to be returned from Room 168. 1 worker is in Room 172 bagging general office contents for disposal and bringing the bagged materials to Room 168 for loadout.

Level 2: Five workers are double bagging materials for loadout in the hallway of the 283/284 work area. The inside of the bags is sprayed with a Hudson before being sealed shut and loaded into a rolling tip bin lined with poly. 2 workers in Room 284, 1 on top of the mobile scaffolding removing light fixtures and lowering them to the ground. The other is on the ground untying them and stacking them in room 283A under a poly sheet. 2 workers pushing wheeled carts from the 283/284 work area down to Room 168 to drop off ACM bags for loadout.

0700 Level 3: One worker is grinding remaining mastic off the edge of where the concrete floor meets the server floor panels. 2 workers are bringing up fan boxes from the floor plenum pointed out on the walk through. 5 negative air machines running on this floor additional machines on roof.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 12/3/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/3/21 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0815 Levels 1 and 2: One worker is in Room 166 bagging contents for disposal. 1 worker is in Room 168 organizing supplies and wrapping larger white boards in poly sheeting. 1 worker is in the cleaning room HEPA vacuuming and wet wiping science animals to be returned from Room 168. 3 workers are in Room 270 wrapping large sections of HVAC ductwork in poly sheeting. 2 workers are in Room 284, 1 is on the mobile scaffolding cutting down conduit with bolt cutters. The other is on the ground doing general housekeeping and bagging debris. 1 worker is in the Level 2 mechanical mezzanine, cutting out ductwork for disposal. 1 worker is in Room 283 wrapping ductwork and metal studs in poly sheeting for disposal.

0945 Two workers in the parking lot closing the lid to an ACM dumpster to be taken off site.

0950 Level 3: Three workers in containment. 1 worker is cleaning out a HEPA vacuum putting in a new bag, 1 worker is using a hand scraper to remove mastic off a small electrical penetration in Room 326. The third worker is cleaning up the station where the crew was cleaning the server floor panels.

1030-1115 Workers break for lunch and return to work.

1200 Level 1: One worker is in the cleaning room wiping down contents from 171. 1 worker is in the ECE kitchen dismantling the casework for disposal then bringing the contents to Room168 followed by 1 worker bags the items.

Level 2: One worker is in Room 270 wrapping light fixtures in poly sheeting for disposal. 4 workers are in mechanical mezzanine demolishing HVAC ductwork then passing it down the mobile scaffolding to 3 workers on the ground who wrap them in poly sheeting.

Level 3: Three workers observed. 1 worker is doing General housekeeping and wiping down negative air machines, worktables, etc. 2 workers are moving materials out of the student lounge and securing the covering over an open hole.

1300 Work efforts continue as noted on all 3 levels.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 PBS and Corey off site. Doors locked. MM still on site will shut off generator.

Signature:

Name: Mike Smith Date: 12/3/21



| Asbestos Contractor: Dickson | | Project Name: Olympic South Abatement & Repairs |
|------------------------------|--|---|
| PBS Site Observer(s): Claire | e Tsai, Peter Stensland, Cameron Budnick | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 12/6/21 |
| | | Page 1 of 3 Time 0600 am |
| Contractor on Site Personn | nel: | |
| Project Manager | Yes No Supervisor Yes | No Summary Phase Status: Level 1: Load out, contents cleaning and disposal. |
| Workers | Yes No Name: Corey Foust | Level 2: Load out, GWB/HVAC demolition. Level 3: Final Detail of floor mastic |
| How Many? + 22 | | Other Personnel on Site: MacDonald Miller (MM) |
| Air Monitoring Personnel o | on site: PBS/Dickson | Olympic Peninsula Construction (OPC) Demobilizing today. |
| WORK DESCRIPTION: Lev | el 1: Continued load-out and wrapping dis | assembled/demolished furniture, contents cleaning Level 2: Wrapping and |
| loading out demolished H\ | VAC components. Level 3: Final Detail of flo | or mastic |
| WORKER PROTECTION: 1/ | 2 face respirator, Tyvek, safety boots, hard | nat |
| | | |
| METHOD OF REMOVAL: V | vet methods manual and saws | |
| | | |
| OBSERVATIONS: | | |

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 Level 1: One worker is inside Room 168 cutting apart doors and other furniture pieces and then bagging them for disposal. 1 worker is in the cleaning room wet wiping office contents from room 171. 1 worker is bringing in tools to Room 168 (Sawzalls, hammers, ect.) to help with dismantling the office furniture.

Level 2: Four workers are in Room 275 wiping down burrito wrapped ACM bags (materials wrapped in poly sheeting that are too large or irregular shaped to fit in normal ACM bags) and labeling them before moving them into a rolling tip bin for loadout.

0700 Level 3: Seven workers are in the containment. 2 workers are removing mastic around the base of structural beams that the grinding machine couldn't reach. 2 workers are doing the same at the former electrical room and in various locations where mastic was missed by the grinder. 1 worker is on the east wall removing remaining insulation by hand and a HEPA vacuum. 2 workers are walking around spraying mastic remover over selected spots that need additional removal.

0730 Level 1: One worker is in Room 181 removing flat file cabinet drawers approved for disposal and bringing them to Room 168. 2 workers are in Room 168, 1 is wrapping furniture pieces from Room 181 and 1 is in the cleaning room wet wiping and HEPA vacuuming office contents from Room 171.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| | |
| | |
| | ^ |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai Date: 12/6/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/6/21 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Level 2: Workers are rewrapping the burrito wraps stored in 275 in an additional layer of poly before loadout to ensure they are clean and have no punctures. 6 workers are moving the burrito wraps between room 275 to the Art Gallery (265) where they are rewrapped and then loaded out through the skybridge window to the forklift bin and taken to the waste container in Parking lot A. 1 worker is coming up the stairs to aid in wrapping.

0950 Level 1: One worker is in Room 181 bagging pieces of a disassembled wood shelf in a bag for disposal. 4 workers are in Room 168, one is wet wiping office contents in the cleaning room, 3 workers helping to load out materials. 2 workers are outside of Room 168 loading the ACM bags into the forklift dumpster.

Level 2: Four workers wrapping demolished HVAC components in burrito style wraps with an additional layer of poly sheeting for loadout, two workers in 265, two workers in 275.

Level 3: Seven workers are in containment. All are scraping mastic from hard-to-reach areas. 3 are in the southeast corner and the other 3 are in room 325 And the hallway immediately outside scraping mastic from structural beams. The crew is sweeping up and HEPA vacuuming debris from mastic removal. 5 negative airs running on the floor. 1 worker is securing covers over the floor penetrations in room 329.

1030-1115 Workers break for lunch and return to work.

1045 Dickson's fuel truck on site to refill generators and forklift.

1230 Level 1: Two workers are in Room 168, 1 is in the cleaning room wet wiping and HEPA vacuuming contents, the other is wrapping cabinet pieces from the ECE kitchen in poly sheeting for disposal. One worker in the ECE kitchen bagging general contents from the kitchen casework for disposal. 6 negative air machines are current running providing negative air pressure to the workspace. 2 negative air machines are running within the space being utilized as scrubbers (air machines that are exhausted within the space to recycle the air instead of being exhausted outside the containment).

Level 2: Two workers are on the second floor skybridge loading out burrito wrapped materials into the forklift bin. 2 workers are in Art Gallery wrapping an additional layer on burrito wraps and labeling them with asbestos tags for loadout. 2 workers are in Room 275 wrapping an additional layer on burrito wraps. 1 worker is bringing the finished wraps from Room 275 and the Music Room to the edge of containment for loadout on the skybridge. 12 negative air machines are current running providing negative air pressure to the workspace. 3 negative air machines are running within the space being utilized as scrubbers.

Level 3: Eight workers are in the containment. 5 workers are grinding mastic after spraying the areas with mastic remover. HEPA vacuums are in use to control dust. 1 worker is sweeping up materials to be vacuumed up. 2 workers are securing covers over penetrations in the floor.

1240 Three workers move two bookshelves and door hardware from a conex in Parking Lot A to CAS533 for college's use.

Signature: Claure Tsui.

Name: Claire Tsai

Date: 12/6/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/6/21 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1345 Level 3: One worker is bagging metal framing for disposal. 1 worker is sweeping dust from Room 327. 3 workers are grinding mastic from hard-to-reach areas. 1 worker HEPA vacuuming General floor area (housekeeping).

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 PBS off site. Corey and MM still on site will lock doors and shut off generator.

Signature: Claude T Sui

Name: Claire Tsai

Date: 12/6/21



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|------|---|---|----------------|---------------|------|----|
| PBS Site Observer(s): Mike Smith, Peter Stensland, Cameron Budnick | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 12, | Date: 12/7/21 | | |
| | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Person | nel: | | | | | | |
| Project Manager Yes No Supervisor Yes No | | Summary Phase Status: cleaning and disposal. | Level 1: Continued lo | ad out, conten | its | | |
| Workers Yes No Name: Corey Foust | | Level 2: Wrap and load out. | | | | | |
| How Many? + 21 | | | Level 3: Demo GWB and wrap and load out. | | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Other Personnel on Site: MacDonald Miller (MM) | | | | |

WORK DESCRIPTION: Level 1: Continued load out via Room 168. Level 2: Wrapping loading out demolished furnishings, casework, and HVAC components. Level 3: Demolish gypsum wallboard and final Detail of floor mastic

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0640 Level 1: Two workers are inside of Room 168, 1 is breaking down wooden furniture with a pry bar and Sawzall the other is wiping down the griffin print press from room 264. 1 worker is in the ECE kitchen dismantling the casework with a drill and prybar and bagging the pieces for disposal.

Level 2: Three workers are in Room 275, 2 are adding a layer of poly sheeting to the burrito wraps for loadout. 1 worker is bringing the burrito wraps to the skybridge for loadout. 3 workers in the Art Gallery adding an additional layer of poly sheeting to the burrito wraps and then stacking them for loadout at the edge of the containment.

0700 Level 3: Five workers are in the containment. 1 worker is cutting out section of the drywall marked to be removed with 1 worker assisting during the removal and bagging drywall waste material. Crew is using airless sprayer to control for dust. 3 workers are power grinding mastic from hard-to-reach areas and HEPA vacuuming the dust. 1 worker is along the southeast wall, 1 worker is in Room 327, and the third in the previous Men's Restroom.

0845 Level 3: Five workers are in containment. 2 workers are HEPA vacuuming and grinding left over mastic in the room right of the entrance and at the adjacent hallway. 2 workers are continuing demolishing of the southwest wall on left of

| BUILDING/AREA/LOCATION |
|----------------------------|
| Olympic South Levels 1/2/3 |
| |
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| |

The individual signing certifies that the above information is correct and accurate.

Signature: Date: 12/7/21 Name: Mike Smith



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/7/21 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

decontamination entrance, removing small pieces of drywall and any screws left in the studs. 1 worker is sweeping up general dust from floor.

0930 Level 1: Three workers are in Room 168, 1 is in the cleaning room wet wiping and HEPA vacuuming a wooden clock. 1 is wrapping casework from the ECE kitchen in poly sheeting and the other is rolling in casework pieces from the ECE kitchen in a rolling tip bin.

Level 2: Three workers are in Room 264, 1 is cutting the office doors into smaller pieces for loadout, 2 are double bagging the pieces. 4 workers are inside of Room 275, 3 workers are cutting and rewrapping contents that were stored in the room, 1 worker is rolling the newly wrapped materials down the hall for loadout. All of the stored contents from room 270 have been loaded out and approximately 15% remains to be loaded out from Rooms 264 and 275.

1030 Corey F has wrapped the exterior portable heater ducting in an insulation blanket for added efficiency in heat delivery to the west side of the Olympic South Building. Per Corey, the heat is being distributed well throughout the building.

1030-1115 Workers break for lunch and return to work.

1200 Level 3: Five workers are in the containment. 1 worker is bagging materials from the removed section of drywall. 1 worker is spot-grinding mastic at Room 327. 1 other worker is spot grinding outside of previous Men's Restroom. 1 worker is removing fixtures from around south wall windows.

1230 PBS moves Room 266 cleaned artwork into Conex 3 for storage.

1330 Two workers are inside Room 168 dismantling casework and other furniture pieces before bagging them for loadout. 1 worker is finishing the removal of the last section of kitchen casework in the ECE and bagging them for loadout. The kitchen sink with ACM undercoating has been removed, bagged, and awaiting loadout. 6 negative air machines are current running providing negative air pressure to the workspace. 2 negative air machines are running within the space being utilized as scrubbers (air machines that are exhausted within the space to recycle the air instead of being exhausted outside the containment).

Level 2: Two workers are in the Art Gallery adding as additional layer of poly sheeting to burrito wraps and applying ACM stickers in preparation for loadout. 2 workers are in Room 264 burrito wrapping metal ceiling grid pieces and attaching an ACM label for loadout. Rooms 275 and 264 is now completely emptied out of all stored ACM bags and wraps. 12 negative air machines are current running providing negative air pressure to the workspace. 3 negative air machines are running within the space being utilized as scrubbers.

1345 Level 3: Six workers are in the containment. 1 worker is moving bags towards the entrance to prep for loadout. PBS noted workers spraying down bags as they are sealed and staged. 1 worker is bagging insulation pulled from the drywall.

Signature:

Name: Mike Smith

Date: 12/7/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/7/21 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1 worker is removing mastic from Room 327. 1 worker is HEPA vacuuming leftover dust from the east corner of student lounge. 1 worker is doing general housekeeping, coiling up extension cables, and changing HEPA vacuum bags.

1400 Corey advises that the portable heater unit is dripping fuel at approximately 1 drip every couple of hours, he has placed an absorption pad to assure no fuel is making it to the ground.

Good negative air pressure on all Olympic South building levels. The poly sheeting flaps from exits are being drawn in and air flow is moving towards the negative air machines where it is filtered and exhausted to the exterior.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 PBS off site. Corey and MM still on site will lock doors and shut off generator.

Signature:

Name: Mike Smith Date: 12/7/21



| Asbestos Contractor: Dickson PBS Site Observer(s): Claire Tsai, Peter Stensland, Cameron Budnick, Gregg Middaugh | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|---|-------|--|---|---------------|-----------------------|-----------------------|---------------|------------|
| | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 12/8/21 | | | |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Persor | inel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | Level 1 continue load | out, contents | s cleaning |
| Workers Yes No Name: Corey Foust | | and disposal. Level 2: Demo, Wrap, and load out. | | | | | | |
| How Many? + 21 | | | | | Level 3: Demo GWB and | wrap and load out | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Other Personnel on Site: MacDonald Miller (MM) | | | | | |

WORK DESCRIPTION: Level 1: Continued load out via Room 168, Prep new ECE load out. Level 2: Continued demolishing HVAC components and associated plumbing. Level 3: Demolish gypsum wallboard and final Detail of floor mastic

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 Level 1: One worker in the 1st floor clean room sweeping and doing general housekeeping. 1 worker is in Room 168 bringing in items from around the building for loadout. 1 worker is in the cleaning room organizing tools and preparing to continue cleaning. 1 worker in the ECE prepping the new loadout area from the east door just south of the old loadout area.

Level 2: Two workers are in the Mechanical Mezzanine cutting down HVAC ductwork with a Sawzall. 3 workers are in Room 284 wrapping conduit cut down from the ceiling in poly sheeting and attaching asbestos labels.

Level 3: Eight workers observed in containment. 1 worker is re-hanging plastic sheeting over windows after piece of wall framing has been removed. 1 worker is using a hand grinder attached to a HEPA vac to grind remaining mastic off the northeast corner of the Student Lounge. 2 workers are removing insulation from Room 327 along the north windows. 3 workers are in the southwest side of the room removing a small section of drywall. 1 worker is moving bags to the loadout area.

0830 Level 1: Three workers are in the ECE, 1 is cutting metal studs with a Sawzall to connect the main north/south hallway to the ECE through the demising wall between Rooms 165 and 162, 1 worker is picking up and bagging debris. 1 worker is laying down sheet poly for the new loadout area.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure T sai

Name: Claire Tsai

Date: 12/8/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/8/21 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| OBSERVATIONS: | | |

Level 2: Three workers are in Room 264 removing fiberglass pipe insulation and ductwork hangers with drills and razor knives. 2 workers are in the Mechanical Mezzanine demolishing HVAC ductwork with Sawzalls.

0920 Level 3: Eight workers observed. 1 worker is below the floor in Room 329 sealing the sub-floor off from the wall cavity. 2 working below server floor. 1 worker is spot grinding mastic off the floor in Student Lounge. 2 workers are in the north previous Men's Restroom and are removing insulation and remaining drywall. PBS Notes crew using airless sprayer to keep dust down and wet outgoing waste bags before sealing them.

1030-1115 Workers break for lunch and return to work.

1150 Level 1: One worker is outside of Room 168 demolishing the previous clean room. 2 workers are inside of Room 168, 1 is rolling in tables on a wheeled cart from Room 164, the other is bagging up old poly sheeting from the ground. 1 worker is in the ECE wrapping wooden shelf pieces in poly sheeting.

Level 2: Three workers are inside of Room 283 dismantling HVAC ductwork into smaller pieces and wrapping the sections in poly sheeting.

Level 3: Ten workers observed in containment. Workers are under rooms 327-329 removing and bagging conduit and wiring and removing leftover insulation from the southwest wall cavity.

1330 Level 1: One worker in the cleaning room HEPA vacuuming the floor. The room has been extended to allow for more cleaning space to accommodate larger office furniture. 1 worker is in the ECE wrapping doors in poly sheeting for disposal. 1 worker is in the hallway by Room 166 dismantling doors for disposal. The ACM sink from the kitchen was loaded out for disposal earlier in the day and is no longer in containment.

Level 2: Three workers are in room 283 spraying ductwork with encapsulate and cutting it down into smaller pieces before wrapping them in poly sheeting.

Level 3: Ten workers on this level. 8 are conducting housekeeping, sweeping, HEPA vac, organizing equipment, and covering the removed server panels with 6mm poly sheeting. 2 are still underneath the floor in 327, picking up their equipment and lights.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 PBS off site. Corey and MM still on site will lock doors and shut off generator.

| Signature: Ullul Tsai | |
|-----------------------|---------------|
| Name: Claire Tsai | Date: 12/8/21 |

no



| Asbestos Contractor: Dickson PBS Site Observer(s): Claire Tsai, Toan Nguyen, Peter Stensland, | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|-------|--|---|--|---------------|------|----|
| | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 12/9/21 | | |
| | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Persor | nnel: | | | | | | |
| Project Manager Yes No Supervisor Yes No | | | No | Summary Phase Status: Level 1: Load out and contents | | | |
| Workers Yes No Name: Corey Foust | | | cleaning/ disposal. Level 2: Load out & add fall protection | | | | |
| How Many? + 22 | | | | to Mech Rm. Level 3: Cut conduits, clean below floor | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Other Personnel on Site: MacDonald Miller (MM) | | | | |

WORK DESCRIPTION: Level 1: Continued load out via room ECE. Level 2: Continued Load out and adding fall protection to Mechanical Mezzanine.

Level 3: Remove conduit and clean spaces below raised server floor.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 Level 1: One worker is operating the forklift back and forth to Parking Lot A lot to dump the ACM bags into the storage container. 1 worker is erecting the new clean room outside room 168.

0715 Three workers loading out from the skybridge, 2 are carrying down ACM bags, one is loading the bags into the forklift bin while strapped into a fall harness. 1 worker is the forklift operator.

0725 Level 1: One worker is inside cleaning room HEPA vacuuming art from the 2nd floor Art Gallery. 1 worker is in the ECE bagging office desks and tables labeled for disposal. 1 worker dismantling the doors throughout the first floor with a drill.

Level 2: One worker is in Room 284 changing out negative air pre filters. 1 worker is in Room 283 laying down a new poly sheeting drop cloth. 1 worker is in Room 271 cutting wood for additional safety barriers.

0745 Level 3: Three workers are outside of the containment carrying down ACM bags to the skybridge for loadout. 1 worker is just inside containment passing out full ACM bags. 7 workers are removing the server panel floors and stacking the pieces on poly sheets.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | 0.0 |

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai Date: 12/9/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/9/21 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0900 Level 1: Two workers are in the cleaning room. 1 worker is wet wiping a Sony DVD player, the other worker is expanding the cleaning room so it connects to the 168 exterior door. 1 worker is in the ECE finishing tidying up after loading out ACM bags. 1 worker is operating the forklift.

Level 2: Two workers are in Room 283, 1 is attaching the new section of wooden fall protection to the Mechanical mezzanine with a hammer and drill. The other worker is securing the new poly drop cloth to the walls with duct tape and doing general housekeeping. 3 workers are in the Art Gallery carrying ACM bags to the edge of containment for load out. 2 workers are outside of the containment on the skybridge loading the bags into a forklift waste bin.

Level 3: Workers have dismantled a portion of the raised server floor grid and supports. Corey up on Level 3 investigating. PBS and Corey communicate about methods of cleaning the server floor were not intended to dismantle the supports. All work removing server floor grid structure and supports has been stopped. Workers return to detail cleaning and removing any remaining conduit under the floor.

0930 Level 3: All workers on the 3rd have stopped removing floor grids and is now using vacuums and shovels and other cleaning tools to remove visible dust and debris from the beneath floor grid space.

0949 MM is on Level 3 determining which conduit at the electrical panels could be removed without cutting the power to the 2nd floor.

1050 A Dickson fuel truck is on site and is pumping diesel into the fuel storage for the buildings temporary heat system.

1030-1115 Workers break for lunch and return to work.

1200 Corey, Todd (Dickson), Dan, Rick (MM) and PBS discuss server floor on level 3. No additional parts of the support structure will be removed until discussion with the project team.

1300 Level 1: One worker in the cleaning room wet wiping and HEPA vacuuming the frame of art from the art gallery. 3 workers are in the ECE, 1 is removing the old poly sheeting wall along the west side of the room. 1 worker is carrying in white boards to the ECE, and 1 worker is wrapping them in poly sheeting for disposal. 6 negative air machines are current running providing negative air pressure to the workspace. 2 negative air machines are running within the space being utilized as scrubbers (air machines that are exhausted within the space to recycle the air instead of being exhausted outside the containment).

Level 2: Four workers are in Room 278 bagging removed ceiling tiles and doing general housekeeping. 1 worker is in Room 283 doing general housekeeping. 12 negative air machines are current running providing negative air pressure to the workspace. 3 negative air machines are running within the space being utilized as scrubbers.

Signature: Claure Tssai Date: 12/9/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/9/21 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| ORSEDVATIONS: | | |

Level 3: Six workers on this level. 2 are using vacuums and hand cleaning tools for detail cleaning of the sub floor space. 1 worker is pulling wires out of the conduits that were cut earlier today. 2 workers are using Sawzall to cut large conduit into smaller pieces to be wrapped in poly sheeting and sealed with duct tape.

1 worker is in the sub-floor area (via hatch in the floor) with a Sawzall to cut conduits.

Good negative pressure is indicated on all floors of the Olympic South Building.

1400-1500 Weekly construction meeting with project team.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1530 PBS, Corey and MM off site. Doors locked, generator off.

Signature: Clavice Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai Date: 12/9/21



| Asbestos Contractor: Dic | Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|------------------------------|--------|------------|----------------|---|------------------------|--------------|-------------|
| PBS Site Observer(s): Mike Smith, Peter Stensland, Cameron Budnick PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | Date: 12 | Date: 12/10/21 | | | | |
| | | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Person | nel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | Level 1: Contents clea | ning/disposa | l, load out |
| Workers | ers Yes No Name: Corey Foust | | | Foust | Level 2: Demolish and l | oad out HVAC in Mec | h Mezz. | |
| How Many? +22 | | | | | Level 3: Remove mastic | , clean up. | | |
| Air Monitoring Personnel | on site: PBS/D | icksor | 1 | | Other Personnel on Site | e: MacDonald Miller (N | ИM) | |
| | | | | | | | | |

WORK DESCRIPTION: Level 1: Continued load out via room 168. Clean Art Gallery components. Level 2: Demolish HVAC components in Mechanical Mezzanine, bag material, and Loadout. Level 3: Mastic removal and general housekeeping.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 Level 1: One worker is building a clean room outside of Room 168 (exterior of building). Exterior clean room will be used to store furniture after PBS visual while waiting for microvac confirmation sampling results. 1 worker is driving the forklift back from storage in Parking Lot A to the skybridge with supplies in the bucket to be loaded into the work areas.

0715 Level 1: One worker is inside cleaning room HEPA vacuuming and wet wiping art from the level 2 Art Gallery. 1 worker is in the ECE wrapping dismantled door pieces in poly sheeting. 1 worker is in Room166A removing ceiling tiles and bagging them for disposal, the inside of the bags is sprayed with a Hudson before being sealed.

Level 2: Four workers are in Mechanical Mezzanine using Sawzalls to cut out HVAC ductwork into smaller pieces. Workers spray down the surfaces with a garden hose before cutting.

0810 Level 3: Eleven workers observed in the containment. 2 workers are bagging used equipment (knee pads) for disposal. 6 workers are bagging used materials and cardboard from equipment. 1 worker HEPA is vacuuming wall cavity to ensure removal of all drywall and insulation debris. 1 worker is removing conduit from sub floor area. Most materials being bagged now are work waste that is no longer needed.

| BUILDING/AREA/LOCATION |
|----------------------------|
| Olympic South Levels 1/2/3 |
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The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 12/10/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/10/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0940 Level 1: One worker is inside of the cleaning room HEPA vacuuming and wet wiping the artwork from the Art Gallery. 1 worker is in the ECE wrapping door pieces in poly sheeting for disposal.

Level 2: Three workers are in the Mechanical Mezzanine cutting apart the HVAC ductwork with Sawzalls. 1 worker is in Room 283 bagging HVAC ductwork for disposal.

Level 3: Nine workers observed in containment. 2 workers are grinding underneath the decon room, removing the remaining mastic. Both grinders being used are connected to HEPA vacuums. 2 are working along the southwest windows removing the remaining drywall and insulation along where the windows meet the floor. 2 workers are preparing waste bags with used machinery. 2 are moving dirty equipment to be cleaned and kept on a drop sheet. General cleanup of materials used for earlier tasks is being organized and prepared for future removal from the containment.

1030-1115 Workers break for lunch and return to work.

1240 Level 1: One worker is inside of the cleaning room doing detail cleaning on the blue print press before visual inspection. 1 worker is in the ECE wrapping door pieces in sheet poly. 1 worker is going throughout the first floor doing general housekeeping. 6 negative air machines are currently running providing negative air pressure to the workspace. 2 negative air machines are running within the space being utilized as scrubbers (air machines that are exhausted within the space to recycle the air instead of being exhausted outside the containment).

Level 2: Workers are removing remaining Office 262 contents with a hand truck. 4 workers are in Room 283 doing general housekeeping and laying a new poly sheeting drop cloth on the floor. 12 negative air machines are current running providing negative air pressure to the workspace. 3 negative air machines are running within the space being utilized as scrubbers.

1330 Level 1: PBS is conducting visual inspections on artwork in the cleaning room.

1345 Level 3: Six workers observed in containment. Plastic sheeting has been laid over removed server floor tiles and stands. Mastic grinding under the decon room finished for today. 1 worker is cleaning up the grinding materials and 1 more is inside the decon hanging a critical barrier flap back more so they can reach farther. 3 workers are doing housekeeping and picking up this floor. 1 worker is HEPA vacuuming and wiping down I-beams and general ceilings in the student lounge. PBS noted the use of wet methods to keep dust down.

Good negative pressure is indicated on all floors of the Olympic South Building.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Signature:

Name: Mike Smith

Date: 12/10/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/10/21 |
|---|-------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1445 PBS off site. Corey and MM still on site will lock doors and shut off generator.

Signature:

Name: Mike Smith Date: 12/10/21



| Asbestos Contractor: Di | sbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | |
|--|-----------------------------|--------------------------|------------|----------------|---|-----------------------|----------------|-------------|
| PBS Site Observer(s): Claire Tsai, Peter Stensland, Cameron Budnick PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | | Date: 12/13/21 | | | | |
| | | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Person | nnel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | Level 1: Contents cle | aning/disposa | l, load out |
| Workers | Yes | Yes No Name: Corey Foust | | | Level 2: Demolish and lo | oad out HVAC in Med | ch Mezz. | |
| How Many? + 29 | | | | | Level 3: Begin cleaning, | replace floor panels/ | grid, remove o | onduit. |
| Air Monitoring Personne | on site: PBS/D | icksor | 1 | _ | Other Personnel on Site | : MacDonald Miller (I | MM) | |

WORK DESCRIPTION: Level 1: Continued load out via ECE. Clean Art Gallery contents. Level 2: Demolish HVAC components in Mechanical Mezzanine, bag material, and Loadout. Level 3 Replace floor panels, remove conduit, and general housekeeping.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat.

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0640 Level 1: Two workers loading in supplies from the ECE loadout area and loading out poly wrapped furniture pieces. 1 worker in Room 166A removing ductwork from the ceiling.

Level 2: Two workers are in the Mechanical Mezzanine cutting up an HVAC air handler with Sawzalls. 2 workers are in Room 284. 1 worker is cutting down water supply lines for the sprinkler system with a Sawzall for scaffolding access to remove fireproofing. The other worker is below spotting and helping to lower the pieces off the mobile scaffolding. 1 worker is in the Art Gallery organizing tools that were loaded in from the sky bridge.

0720 One worker dawning PPE to enter the Level 1 containment. 3 workers are refueling the generator and fuel pod.

Level 3: Six workers are in Room 325 replacing server floor grids and panels now they have been cleaned. 80% of panels and grid have been replaced. 3 workers are underneath the main floor cutting out conduit. 1 worker is working underneath the decon room to grind down remaining mastic with a hand grinder attached to a HEPA vacuum. 1 worker is removing debris from the east window bank. 2 workers in the Student Lounge are wet wiping and HEPA vacuuming the ceiling to ensure they are clean for clearance. 13 workers observed in containment. 7 negative airs running on floor. In Room 327, the minor leak still appears to be active. Corey and MM is aware of the leak and working on investigation.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| | |
| | |
| | - |

The individual signing certifies that the above information is correct and accurate.

Signature: Muru Tsu i

Name: Claire Tsai Date: 12/13/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/13/21 |
|---|---------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0850 Level 1: One worker is in the hallway outside Room 168 dismantling the metal drop in ceiling grid and putting the removed metal sections into a rolling bin. 1 worker is in the cleaning room HEPA vacuuming artwork from the 2nd floor Art Gallery. 1 worker is in the ECE wrapping custodial equipment in poly sheeting for disposal. 1 worker is in room 166A removing the ceiling tiles and bagging them for disposal.

Level 2: Two workers are in Room 284, 1 is on the mobile scaffolding cutting out HVAC ductwork with a Sawzall, 1 worker is on the ground wrapping the ductwork sections in poly sheeting. 2 workers are in Room 283 wrapping HVAC ductwork in poly sheeting. 2 workers are in the Mechanical Mezzanine cutting ductwork with a Sawzall. One MM employee going throughout the first and second floors to check on general work safety.

0930 Level 3: Thirteen workers observed. 1 worker is burrito wrapping conduit cut from the subfloor in poly sheeting. 1 worker is wiping and HEPA vacuuming the ceilings in the student lounge. 4 workers are under the floor cutting conduit for disposal. 5 workers are replacing the grid for the server floor. 1 worker is bagging waste materials and the other is reorganizing cables and spider boxes to mitigate the frequency of circuits. MM on 3rd floor and noted light coming from gap across ceiling (of 284A). Dickson will seal gap before final detail cleaning.

1030-1115 Workers break for lunch and return to work.

1215 Level 1: Two workers are in Room 166A wrapping ceiling tiles in poly sheeting for disposal. 1 worker in the ECE wrapping HVAC ductwork in poly sheeting. 6 negative air machines are currently running providing negative air pressure to the workspace. 2 negative air machines are running within the space being utilized as scrubbers (air machines that are exhausted within the space to recycle the air instead of being exhausted outside the containment).

Level 2: Two workers are in the Mechanical Mezzanine cutting down HVAC ductwork and lowering the pieces into 283. 3 workers are in Room 283. 1 worker is cutting the pieces into smaller chunks for disposal, 2 are wrapping the pieces in poly sheeting. 1 worker is in the hallway between Rooms 284 and 283 on mobile scaffolding cutting down HVAC ductwork. 1 worker is in Room 266 fixing holes in the wraps before they are taken to the Art Gallery for loadout. 12 negative air machines are current running providing negative air pressure to the workspace. 3 negative air machines are running within the space being utilized as scrubbers.

Level 3: Twelve workers observed in containment. 2 workers are in the Student Lounge wiping and vacuuming the ceiling paneling to remove any remaining dust/debris. 1 worker is HEPA vacuuming up general dust and debris in the former restroom. 1 worker is burrito wrapping removed conduit from the subfloor. 2 workers are cutting removed conduit to a suitable size for removal and disposal. 3 workers are replacing the grid and floor panels of the server floor. 3 workers in the subfloor HEPA vacuuming dust and removing any remaining conduit.

1350 Level 3: Four workers are HEPA vacuuming and wiping ceiling in 329 to remove any leftover dust/debris and material. 2 workers are in the Student Lounge cleaning the walls and ceiling. 4 workers are underneath the subfloor

Signature: // Sui
Name: Claire Tsai
Date: 12/13/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/13/21 |
|---|---------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

continuing cleaning. 1 worker is covering a penetration in floor. 2 workers completing general housekeeping and organization of tools.

1400 Level 1: Three workers on the first floor are doing general housekeeping in preparation for the end of the day. Level 2: Eight workers are in Room 284 wrapping HVAC ductwork in poly sheeting and doing general housekeeping. Good negative pressure is indicated on all floors of the Olympic South Building.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Most Workers off site for the day.

1445 Three workers are loading supplies out from a pickup into the connex. PBS off site. Corey and MM still on site will lock doors and shut off generator.

Signature: Clavie Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai Date: 12/13/21



| Asbestos Contractor: Die | Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | |
|--|--|--------|------------|---|---|------------------------|---------------|-------------|
| PBS Site Observer(s): Mike Smith, Peter Stensland, Cameron Budnick | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 12/1 | | | 2/14/21 | |
| | | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Persor | nnel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status | Level 1: Contents cle | aning/disposa | l, load out |
| Workers | orkers Yes No Name: Corey Foust | | | Level 2: Demolish and load out HVAC in Mech Mezz | | | | |
| How Many? + 29 | | | | | Level 3: Continued clea | ning throughout the I | level | |
| Air Monitoring Personnel | on site: PBS/D | icksor | 1 | | Other Personnel on Site | e: MacDonald Miller (I | MM) | |

WORK DESCRIPTION: Level 1: Continued load out via ECE. Level 2: Continued demolishing and load out of HVAC components in Mechanical Mezzanine also bag material and loadout in the Art Gallery. Level 3: Continue cleaning throughout the space.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0640 Level 1: One worker in the cleaning room wet wiping and HEPA vacuuming artwork. One worker is in the ECE wrapping office contents in poly sheeting for disposal.

Level 2: Two workers are inside of Room 283 doing general housekeeping and tidying up the area. 4 workers are in Room 284. 1 worker is going up the mobile scaffolding to begin removing HVAC ductwork, 1 worker is checking and swapping out the prefilters, 1 is spotting for the person on the mobile scaffolding, and the last worker is doing general housekeeping. 2 workers are in the Art Gallery spraying the insides of bags with a Hudson sprayer and sealing them for disposal.

0710 Level 3: Two workers on the east wall wet wiping ceiling surfaces. 2 workers are wiping down and HEPA vacuuming the walls and ceilings in the Student Lounge. PBS noted use of airless sprayer to mitigate dust during loadout activities. 4 workers are under the subfloor HEPA vacuuming cleaning up dust and debris. 1 worker is taping and spraying down bags before they are removed from the containment. 9 workers observed in containment. 3 workers are outside of the containment assisting with loadout.

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

BUILDING/AREA/LOCATION

Asbestos contaminated building materials from Levels 1/2/3

1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 12/14/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/14/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0820 Level 1: One worker operating the forklift to load out materials from the second floor skybridge. 1 worker inside of the cleaning room HEPA vacuuming and wet wiping artwork. 1 worker is in the ECE wrapping custodial equipment in poly sheeting for disposal. The equipment is wet before it is wrapped and then marked with an asbestos label.

Level 2: Three workers are in the Art Gallery doing loadout. 2 workers are in the Mechanical Mezzanine cutting down HVAC ductwork and lowering them down to Room 283 for bagging and disposal. 2 workers in Room 283 are being handed HVAC ductwork pieces and are stacking them to later be wrapped in poly sheeting. 3 workers in the hallway. 1 worker is spraying water with an airless sprayer, 1 worker is spotting /aiding in the lowering of cut HVAC ductwork, and 1 worker is on top of the mobile scaffolding cutting out the ductwork with a Sawzall.

0930 Level 3: Three workers are wet wiping the ceiling in Rooms 328 & 329. 2 workers are wiping and HEPA vacuuming the ceilings in the Student Lounge. 4 workers are under the subfloor vacuuming up dust and debris. 1 worker is dusting poly sheeting over windows. 10 workers in containment + 1 MM employee doing walk through.

0950 Level 1: One worker in the cleaning room wet wiping and HEPA vacuuming artwork. 1 worker is in the ECE wrapping custodial equipment in poly sheeting for disposal. 1 worker is in Room 181 laying down poly to begin the disposal of contents from Rooms 181-A and 181-A-2.

Level 2: One worker is in Room 266 dismantling plywood storage pieces; 3 workers are in the Art Gallery wrapping the furniture pieces and moving them to the skybridge loadout. 2 workers are in Room 284 stacking removed HVAC ductwork and wrapping it in poly sheeting. 3 workers are in the hallway between Rooms 283 and 284. 2 workers are on the mobile scaffolding cutting HVAC ductwork with a Sawzall, 1 worker is on the ground spotting to make sure nobody walks underneath or through the area, and 1 worker in Room 283 is spraying down the ductwork as it is being removed. 2 workers in the Mechanical Room cutting out sections of the HVAC ductwork with a Sawzall.

1030-1115 Workers break for lunch and return to work.

1200 Level 3: One worker is laying poly sheeting over stored equipment for intermittent use on the floor. 2 workers in the Student Lounge are covering a neg air machine and wobble light in plastic. 1 worker is bagging assorted garbage and waste to be loaded out. 3 workers are working to cover all exposed equipment with poly to ensure minimal dust migration. 4 workers under the subfloor are vacuuming up dust and debris.10 workers observed in containment.

1220 Level 1: Two workers are bringing in more supplies into the clean room and are removing garbage. 1 worker is in the cleaning room wet wiping and HEPA vacuuming artwork. 2 workers are in the ECE bagging contents from Rooms 181-A and 181-A-2 for disposal (stools and various furniture pieces).

Level 2: One worker is in the Art Gallery wrapping wooden pieces in poly sheeting for disposal. 3 workers are in Room 283. 1 worker continues cutting the HVAC ductwork into smaller pieces, 1 worker is wrapping the pieces in poly sheeting, and

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith

Date: 12/14/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/14/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

the other is spraying things down with an airless sprayer. 3 workers in the Mechanical Mezzanine are removing HVAC ductwork with Sawzalls. 2 workers are in the hallway doing general housekeeping.

1330 PBS departs the site for a group meeting in Seattle. Dickson and MM remain on site and will secure the building and shut down the generator.

Signature:

Name: Mike Smith Date: 12/14/21



| Asbestos Contractor: Die | Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|----------------------------------|--------|---|---------|---|------------------------|---------------|-------------|
| PBS Site Observer(s): Claire Tsai, Peter Stensland, Cameron Budnick | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 12/1 | | | 2/15/21 | | |
| | | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Persor | nnel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | Level 1: Contents cle | aning/disposa | l, load out |
| Workers | Workers Yes No Name: Corey Foust | | | y Foust | Level 2: Demolish and load out HVAC in Mech Mezz. | | | |
| How Many? + 26 | | | | | Level 3: Continued clea | ning throughout the I | evel. | |
| Air Monitoring Personnel | on site: PBS/D | icksor | 1 | | Other Personnel on Site | e: MacDonald Miller (I | MM) | |

WORK DESCRIPTION: Level 1: Continued contents cleaning, disposal and load out via ECE. Level 2: Continued demolishing and load out of HVAC components in Mechanical Mezzanine also bag material and loadout in the Art Gallery. Level 3: Continue cleaning throughout the space.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 Level 1: One worker is in the cleaning room wet wiping and HEPA vacuuming tables. 1 worker is in the ECE wrapping office furniture in poly sheeting and applying asbestos tags with adhesive spray.

Level 2: One worker is inside of the Art Gallery wiping down wrapped HVAC ductwork and attaching asbestos stickers. 1 worker is using a rolling tip bin to transport wrapped HVAC ductwork pieces to the Art Gallery and wheeling more poly rolls back into Rooms 283 and 284. 2 workers are in the Mechanical Mezzanine removing HVAC ductwork with Sawzalls. 2 workers are on mobile scaffolding outside of Room 283 removing fiberglass pipe insulation with razor knives. 1 worker is in Room 283 spraying down the work area with an airless sprayer.

0700 Level 3: Two workers are organizing equipment and prepping materials for today's work. 2 workers are underneath the subfloor HEPA vacuuming dust and debris. 2 workers are staging scaffolding to reach the ceiling for wiping and HEPA vacuuming. 1 worker is in the Student Lounge HEPA vacuuming the west ceiling. 2 workers have started removing the plastic sheeting over the north windows to begin cleaning. Workers will remove plastic sheeting from one window bay at a time to clean behind dispose of blinds and then replace poly sheeting over window for visual barrier and to protect from encapsulant after final visual. 9 workers observed in containment.

0720 Work area loadout continues with ACM bags/wraps being transported via the forklift bin to the Parking Lot A storage container.

| storage container. | |
|---|----------------------------|
| ITEMS OF CONCERN: None | |
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | N a |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai Date: 12/15/21



Date: 12/15/21

| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/15/21 |
|---|---------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0915 Level 1: One worker in the cleaning room is wet wiping and HEPA vacuuming desks. 1 worker is in Room 166 bagging art components from Room 266 for disposal.

Level 2: Two workers continue as noted in the Mechanical Mezzanine. 1 worker in Room 283 wrapping HVAC ductwork in Poly sheeting for disposal. 2 workers are in the hallway outside of Room 283 doing general housekeeping.

Level 3: Three workers are under the subfloor HEPA vacuuming dust/debris. 2 workers are in Room 327 picking up remaining garbage. 1 worker is in Room 329 wet wiping the ceiling/window intersection. 1 worker is placing a covering over a penetration in the floor in Room 328. 2 workers are at the entrance to the Student Lounge wet wiping and HEPA vacuuming the ceilings. 1 worker is doing the same on the northwest corner of the Student Lounge.

13 workers observed in third floor containment.

1030-1115 Workers break for lunch and return to work.

1300 Level 1: One worker is inside of the cleaning room wet wiping, HEPA vacuuming, and scraping off negative air cowling. 1 worker is in Room 181 removing contents from room 181-A-2. 6 negative air machines are currently running providing negative air pressure to the workspace. 2 negative air machines are running within the space being utilized as scrubbers (air machines that are exhausted within the space to recycle the air instead of being exhausted outside the containment).

Level 2: One worker is in the Mechanical Mezzanine doing housekeeping. One worker is in Room 283 stacking removed studs in the demolition pile. 2 workers are in the hallway outside of Room 283 – 1 worker is on the mobile scaffolding removing GWB walls and metal studs and 1 worker is on the ground spraying water with an airless sprayer. 1 supervisor is going throughout the area directing work efforts. 12 negative air machines are current running providing negative air pressure to the workspace. 4 negative air machines are running within the space being utilized as scrubbers.

Level 3: One worker is HEPA vacuuming the floor in Room 327 along the wall. 1 worker is bagging up Dickson waste and setting it aside for loadout. 1 worker is moving a small scaffold set to reach the ceiling pan to wipe the ceiling down. 2 workers are cleaning, section by section the west windows in the Student Lounge with HEPA vacuums and rags. 5 blinds have been removed. 1 worker is HEPA vacuuming the main floor of the Student Lounge. 3 workers are underneath the floor cleaning with wet rags and HEPA vacuums. PBS noted water spray underneath the floor to mitigate dust. 2 workers are prepping a poly sheeting wall in front of the Student Lounge in prep for a clearance in the future. 10 workers in containment.

1345 Level 3: One worker is removing blinds from the north window in the Student Lounge and 1 worker is wiping and HEPA vacuuming windowsills on the south lounge window. 1 worker is cleaning ceiling just outside the student lounge poly sheeting barrier. 5 workers are wiping down the I-beams and structure under the subfloor in the southeast section of the level. 2 workers are organizing water supply hoses. 1 worker is laying out poly sheeting to be hung at the Student Lounge. 1 worker is doing housekeeping and organizing all gear.

Signature: (LUUL) TSUL.
Name: Claire Tsai



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/15/21 |
|---|---------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Good negative pressure is indicated on all floors of the Olympic South Building.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS off site. Doors locked. Corey and MM still on site will shut off generator.

Signature: Claude Tsui
Name: Claire Tsai

The individual signing certifies that the above information is correct and accurate.

Date 12/15/21



| Asbestos Contractor: Di | ckson | | | | Project Name: Olympic South Abatement & Repairs | | Repairs | |
|---|--|----|---|---|---|------------------------|---------------|-------------|
| PBS Site Observer(s): Cla Kaitlin Soukup. | S Site Observer(s): Claire Tsai, Peter Stensland, Ferman Fletcher, itlin Soukup. | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 12/16/21 | | | |
| | | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Person | nnel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | Level 1: Contents clea | aning/disposa | l, load out |
| Workers | Yes | No | Name: Corey | Foust | Level 2: Demolish and load out HVAC in Mech Mezz. | | | |
| How Many? + 27 | | | | Level 3: Continued cleaning throughout the level. | | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | 1 | _ | Other Personnel on Site: MacDonald Miller (MM) | | | |

WORK DESCRIPTION: Level 1: Continued contents cleaning, disposal and load out via ECE. Level 2: Continued demolishing and load out of HVAC components in Mechanical Mezzanine also bag material and loadout in the Art Gallery. Level 3: Continue cleaning throughout the space.

PBS visual and collect microvac samples from cleaned contents.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0720 Level 1: One worker in 181 bagging contents from Room 181-A for disposal. One worker in the 168 cleaning room wet wiping and HEPA vacuuming wooden tables.

Level 2: Two workers are in Room 283 - 1 is using an airless sprayer to wet down the area and 1 is wrapping cut HVAC ductwork in poly sheeting. 3 workers are in the Mechanical Mezzanine using drills and Sawzalls to dismantle the metal studs from the west wall. A wooden fall protection barrier has now been erected along the exposed edge. 1 worker is in Room 266 dismantling the server rack with a drill.

0750 Level 3: One worker is along the east wall placing caution tape around the covered server floor panels. 1 worker is along the west wall covering drains from the old restroom section in poly. 3 workers in the Student Lounge section HEPA vacuuming and wet wiping the windows before recovering them with poly to recreate the visual barrier. 5 workers are along the north wall wet wiping the metal ceiling pan decking and steel support beams. 2 workers are in the center of the room organizing equipment. 5 workers are in the supply plenum wet wiping and HEPA vacuuming throughout.

0930 Level 3: Four workers are inside the Student Lounge - 1 worker is HEPA vacuuming the floor, 1 worker is sweeping the floor with a green material used to trap dust, 1 worker is on the mobile scaffolding wet wiping and HEPA vacuuming the south window section, and 1 worker is erecting mini mobile scaffolding. 5 workers are on the north side of the building wet wiping and HEPA vacuuming the pan decking and steal I beams. 1 MM worker is doing a safety walkthrough.

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1/2/3

Olympic South Levels 1/2/3

The individual signing certifies that the above information is correct and accurate.

Signature: Claure T suri

Name: Claire Tsai

Date: 12/16/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/16/21 |
|---|---------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

4 workers are below in the supply plenum wet wiping and HEPA vacuuming the space. 1 worker is entering the containment as PBS is deconning out.

0950 Level 1: One worker is in Room 182 drilling (destroying) hard drives. One worker in the cleaning room wet wiping and HEPA vacuuming tables. 1 worker in the ECE bringing in materials for disposal. 3 workers are in Room 284 wrapping demolished HVAC ductwork in poly sheeting.

1010 Level 1: PBS is conducting visual inspections of contents in the cleaning room.

1030-1115 Workers break for lunch and return to work.

1202 Level 3: Five workers on ladders and scaffolding wet wiping and using HEPA vacuums to clean overhead beams and the underside of the metal roof deck on the north side of the building. 4 workers cleaning the southern portion (former Student Lounge) 2 workers are on scaffolding wet wiping and HEPA vacuuming overhead beams and the underside of the roof deck. 4 workers are below in the supply plenum wet wiping and HEPA vacuuming the space.

1245 Level 1: Two workers are inside of Room 181 bagging contents for disposal from Room 181-A. 1 worker is in the cleaning room wet wiping and HEPA vacuuming wooden tables. 6 negative air machines are currently running providing negative air pressure to the workspace. 2 negative air machines are running within the space being utilized as scrubbers (air machines that are exhausted within the space to recycle the air instead of being exhausted outside the containment).

Level 2: Three workers are in Room 283 doing general housekeeping. 2 workers are in Room 284 wrapping conduit and HVAC ductwork for disposal. 2 workers are in Room 276 bagging conduit for disposal. 12 negative air machines are current running providing negative air pressure to the workspace. 4 negative air machines are running within the space being utilized as scrubbers.

1330 Level 1: Two PBS workers are preforming visual inspections and taking microvac samples from the cleaning room and adjacent clean room.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS off site. Doors locked. Corey and MM still on site will shut off generator.

Signature: UMW T SMI
Name: Claire Tsai



| Asbestos Contractor: Die | ckson | | | | Project Name: Olympic | South Abatement & F | Repairs | |
|---|---|----|---|---|---|---------------------|----------------|----------|
| PBS Site Observer(s): Mik Ferman Fletcher | SS Site Observer(s): Mike Smith, Peter Stensland, Cameron Budnick, erman Fletcher | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 1 | Date: 12/17/21 | | |
| | | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Persor | inel: | | | _ | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: Contents cleaning/disp | | or shut off on | 12/20/21 |
| Workers | Yes | No | Name: Core | y Foust | Level 2: Load out of staged wrapped materials | | | |
| How Many? + 29 | | | | Level 3: Continued cleaning throughout the level. | | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | Other Personnel on Site: MacDonald Miller (MM) | | | | |

WORK DESCRIPTION: Level 1: Continued contents cleaning, disposal and load out via ECE. Level 2: Continued loading out of previously bagged or wrapped demolished materials. Level 3: Continue final cleaning throughout the space. Exterior: prep backup power for negative air machines for power shut down 12/20/21 **WORKER PROTECTION**: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0640 Three Dickson workers are loading supplies from a box truck on the southeast corner of the building into a forklift bin to load into the skybridge.

0720 Level 1: From the demo of room 181A and 181A-2 yesterday, only the fume hood and a door remain. The rest of the contents has been brought to the ECE for bagging and loadout. 2 workers are in Room 168, 1 is planning out the schedule for the floor and the other is in the cleaning room wet wiping and HEPA vacuuming wooden tables. Most work has now shifted to the 3rd floor for detail cleaning.

Level 2: Three workers placing ACM bags into a clean bag and sealing them for loadout from the skybridge. All work on this level is focused on loading out.

Level 3: Three workers are in the main area wiping down pipe fixtures, ceiling paneling, and I-beams. 1 worker is assisting the ceiling crew. 1 worker with the assistance of a worker outside the work area are bringing scaffolding into containment. 5 workers are underneath the subfloor wiping down all surfaces. Workers in sub floor are working their way south and west as they progress. 3 workers are inside the Student Lounge enclosure preparing for a visual inspection. 2 workers are

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| - | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Name: Mike Smith Date: 12/17/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:12/17/21 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

on scaffolding on the east side of the lounge cleaning the ceiling. 1 worker is HEPA vacuuming along the edge of the room to remove dust.

0815 Three workers carrying up additional scaffolding pieces from the forklift container to the level 3 containment. One worker setting up OWA air sampling on the sky bridge.

0930 Level 1: Workers are switching off the main power connection to ensure the temp power connection will work for the scheduled outing next week. All building lights are turned off, Dickson's mobile lights and negative air machines are all still functioning as intended. 1 worker is going throughout the floor to inspect machinery and light distribution. 1 worker in the cleaning room wrapping artwork in poly sheeting to maintain its clean condition until testing.

Level 2: Two workers are in the art gallery checking burrito wraps for holes / cleanliness and fixing / cleaning them as needed before loading them out of the work area. 2 workers are outside containment brining the bagged ACM materials to the forklift bin through the skybridge window. All lights and negative air machines are functioning normally (while the secondary power to the building is running).

Level 3: PBS noted and advised the contractor re-clean small sections of I-beams underneath the subfloor. 5 workers are wiping underneath the main floor. 6 workers are wiping down the ceilings in the corner entrance hallway. 3 workers are in the Student Lounge - 2 are cleaning above the I-beam that used to separate the lounge from the rest of the floor. 1 worker is removing paneling along an HVAC duct. 1 worker is bagging removed conduit for loadout. 18 workers observed in containment. Contractor notified PBS of suspect black asphaltic material on old roof curbing underneath the subfloor that runs along the perimeter of the entire floor. PBS collected 3 samples of this material.

1030-1115 Workers break for lunch and return to work.

1200 Level 1: One worker in the ECE removing light tubes from overhead fixtures. 1 worker is in Room 168 doing general housekeeping. 6 negative air machines are currently running providing negative air pressure to the workspace. 2 negative air machines are running within the space being utilized as scrubbers (air machines that are exhausted within the space to recycle the air instead of being exhausted outside the containment).

Level 2: Three workers are in Room 283. 1 is cutting the HVAC ductwork into smaller pieces with a Sawzall and 2 workers are wrapping the pieces in poly sheeting and attaching asbestos tags to the outsides of the burrito wraps. 1 worker is in the hallway near the rear Music Rooms brining in additional supplies. All staged ACM bags in the art gallery have been loaded out. 12 negative air machines are current running providing negative air pressure to the workspace. 4 negative air machines are running within the space being utilized as scrubbers.

1215 Level 3: Four workers are outside containment running loadout. 1 worker is wetting the outside of waste bags Inside containment staged for removal and disposal. 3 workers are in the main section continue wiping down ceiling pans and I

Signature:

Name: Mike Smith

Date: 12/17/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/17/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

beams. 3 workers are in the Student Lounge - 2 are pulling insulation from the boundary between the lounge and the rest of the level. The other worker is removing a duct from the west end of the lounge. 4 workers in the subfloor wiping down I beams and pan decking. 12 workers in containment.

1245 PBS departs the site for a corporate meeting in the Seattle office. Dickson and MM remain on site and will secure building and shut down generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date: 12/17/21



| Asbestos Contractor: Dicks | on | | | | Proje | t Name: Olympi | c South A | Abatement & | Repairs | |
|---|---|-------------------|----------------|---------|--|------------------|--|---------------|--------------|----------|
| PBS Site Observer(s): Peter S | PBS Site Observer(s): Peter Stensland | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 1 | | | 12/20/21 | | |
| | | | | | Page | 1 of 2 | | Time | 0615 | am |
| Contractor on Site Personne | d: | | | | | | | | | |
| Project Manager | ct Manager Yes No Supervisor Yes No | | | | Sumn | nary Phase Statu | s: Activiti | es associated | with power s | hut down |
| Workers | Yes | No | Name: Corey | y Foust | today | | | | | |
| How Many? +3 | | | | | | | | | | |
| 110W Widily. 13 | | | | | | | Other Personnel on Site: MacDonald Miller (MM) | | | |
| Air Monitoring Personnel or | | | | | _ | | | | <u> </u> | |
| • | batement o | ccurrir | ng today. Cont | | _ | | | | <u> </u> | erator |
| Air Monitoring Personnel on WORK DESCRIPTION: No a | batement or | ccurrir t back | ng today. Cont | ower. | e for power s | | | | <u> </u> | erator |
| Air Monitoring Personnel or WORK DESCRIPTION: No a power for duration of shut of | batement od lown the put face respirat | ccurrir t back | ng today. Cont | ower. | e for power s | | | | <u> </u> | erator |

0 r air.

0700 Three workers and 1 MM worker setting up the temporary power for the building in the first-floor mechanical room. The workers are shortening one of the baloney cords to cut out the damaged section from the initial tests last Friday.

0730 PBS sets up OWA air samples at exit points from the Olympic South containment (east side floors 1, 2, and 3, west side floors 2, and 3, and two roof exhaust HEPA samples.

0800 Power to the Olympic South building is down. The building is successfully running off generator power.

0830 PBS checks negative air machines on roof, all machines are running properly.

0930 Level 1: Five exhausting negative air machines are running (machines not running still plugged into house power). Level 2: Six exhausting negative air machines are running; one negative air machine is scrubbing the air. All critical barriers at entry/exits pulling correct direction. Building is under negative pressure on backup power. All building exterior criticals are sealed.

1030-1115 Workers break for lunch and return to work.

1045 Dickson is getting a fuel delivery, one additional worker is on site to refuel.

1130 The campus power has been restored. Dickson is going to wait thirty minutes until the time slot has fully passed to be on the safe side before switching back to house power.

ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION Olympic South Levels 1/2/3 1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature: Name: Peter Stensland Date: 12/20/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:12/20/21 |
|---|-------------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1155 One ACM waste trailer removed from site. One worker assisted the truck driver with the loading and paperwork.

1200 Dickson is switching the power back to house power, there is one worker on the first and second floor, one worker on the third floor, one worker on the roof, and one worker at the generator to make sure everything gets switched over properly.

1230 All negative air machines are running off building power.

1245 Dickson off site.

1320 PBS collects the air samples and leaves site. Doors locked, generator off.

Air samples collected 12/17/21 (indoor, outdoor and exhausted air) did not show concentrations of concern.

Signature: Ita Stendar

The individual signing certifies that the above information is correct and accurate.

Name: Peter Stensland

Date12/20/2021



| Asbestos Contractor: Di | ickson | Project Name: Olympic South Abatement & Repa | iirs | | |
|---------------------------|--|---|-----------|--|--|
| PBS Site Observer(s): Cla | aire Tsai, Mike Smith, Peter Stensland, | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 12 | | | |
| | | Page 1 of 2 Time | 0600 am | | |
| Contractor on Site Perso | nnel: | | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: Level 1: Clean/Organize e | quipment. | | |
| Workers | Yes No Name: Corey Foust | Level 2: Clean and prep for fireproofing removal. | | | |
| How Many? + 21 | | Level 3: Continued final cleaning. | | | |
| Air Monitoring Personne | el on site: PBS/Dickson | Other Personnel on Site: MacDonald Miller (MM) | | | |
| | evel 1: Cleaning and organizing equipment in Roor cleaning throughout the space. | m 168. Level 2: Clean and prep for fireproofing remov | al. | | |
| | | | | | |
| WORKER PROTECTION | : ½ face respirator, Tyvek, safety boots, hard hat | | | | |
| WORKER PROTECTION | : ½ face respirator, Tyvek, safety boots, hard hat | | | | |
| | : 1/2 face respirator, Tyvek, safety boots, hard hat L: wet methods manual and saws | | | | |
| | | | | | |

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0645 Level 3: Corey communicating with floor lead about work procedures occurring on the floor. 11 workers are continuing with detail cleaning working north to south toward the negative air machines.

0700 Dickson is changing out the prefilters on the negative air machines located on the roof. 1 additional worker on site goes to Level 3 to continue with cleaning efforts in progress.

0720 Level 2: PBS initiates work area air sampling while checking the negative air machines and observing the work practices in progress. 2 workers near Room 283A are organizing tools and doing general housekeeping. 1 worker is in the art gallery unloading ACM bags. 2 workers are in Room 284 - 1 is bagging poly sheet drop cloths and the other is doing general housekeeping.

0830 Level 3: PBS enter level 3 containment. Fourteen workers in containment. 6 workers are in second grid line wet wiping and HEPA vacuuming ceiling components. 2 workers are in the Student Lounge HEPA vacuuming and wet wiping east ceiling beam. Six workers are in the floor plenum wet wiping, HEPA vacuuming and using a wax-based floor sweeping compound that attracts and adheres dust for cleaning and collection.

0845 One worker outside containment assisting by bringing supplies to containments as needed. Worker drops off handheld brushes to Level 3.

| idilaticia brasiles to Level 5. | |
|--|--|
| ITEMS OF CONCERN: None | |
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| | |
| | |
| | M. lot / a |
| | // \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith

Date: 12/21/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/21/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Level 3: Two workers in Student Lounge cover upper portion of windows with poly sheeting to serve as visual barriers.

0915 Level 3: Two workers gather scaffolding equipment not in use and stack to be cleaned for load out. Floor lead wetting ladders with the airless sprayer then wiping them to be loaded out. PBS checks ladders and determines cleaning satisfactory. 4 workers continue in second grid line. 2 workers continue as previously noted in the Student Lounge. 4 workers continue cleaning efforts in the floor plenum. Corey and Todd enter the containment to check work progress. Poly sheeting separating student lounge from the rest of the work area will be replaced to isolate the floor gap (leading to the space below the skybridge) to the main containment.

0945 Level 1: One worker inside of Room 168 getting equipment / organizing.

Level 2: Four workers are inside of Room 284 – 1 worker is changing out the prefilters on the negative air machines and 3 workers are laying poly sheeting down on the floor and on the walls in preparation for fireproofing removal.

1000 PBS exits the Level 3 containment.

1030-1115 Workers break for lunch and return to work.

1245 Level 2: One worker in the Art gallery doing general housekeeping tasks.

1300 One worker assisting from exterior of containment loading equipment off Level 3 to Levels 1 and 2. One worker on Level 3 exits containment to help.

Level 3: Five workers around the student lounge area wet wiping and HEPA vacuuming the fire system piping. 5 workers are along the north side of the building moving mobile scaffolding and wet wiping and HEPA vacuuming the I-beams. 2 workers are erecting scaffolding on the southeast corner of the building, 2 more workers enter containment and assist with cleaning in progress.

1330 Level 3: Two workers east of Student Lounge on scaffolding. Two workers are in the previous northwest classroom area. 2 workers are in the previous north center classroom. 2 workers are in the previous northeast classroom area. Corey + 1 worker are setting up scaffolding in southeast area. 2 leads are assisting crew from floor.

1350 One worker exits first/second floor containment.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 PBS off site. Corey and MM still on site will lock doors and shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 12/21/21



| Asbestos Contractor: Di | ckson | | | | Project Name: Olympic South Al | batement & Rep | airs | | |
|---------------------------|----------------------------------|-----------------|-----------|-----------------------------------|---|-----------------------|----------------|----|--|
| PBS Site Observer(s): Cla | ire Tsai, Peter Stensla | nd | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 12/22/21 | | |
| | | | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Persor | nnel: | | | | | | | | |
| Project Manager | Yes No | Supervisor | Yes | No | Summary Phase Status: | | | | |
| Workers | Workers Yes No Name: Corey Foust | | | Levels 1 and 2: No work occurring | | | | | |
| How Many? + 21 | | | | | Level 3: Continued final cleaning |) | | | |
| Air Monitoring Personnel | on site: PBS/Dickson | 1 | | | Other Personnel on Site: MacDo | nald Miller (MM |) | | |
| 7.11 Worldoning Fersonine | OH Site. I Day Diekson | | | | Other resonner on site. MacDo | ridia ivilici (ivilvi | , | | |
| WORK DESCRIPTION: Le | evels 1 and 2: No wor | k occurring. Le | vel 3: Co | ontinue | d final cleaning throughout the leve | l. | | | |
| | | J | | | <u> </u> | | | | |

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods / HEPA vacuuming

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS initiates air sampling inside and outside work areas and at HEPA exhausted air.

0711 Workers load out material from skybridge. 1 operator, 1 spotter, and 1 worker loading from the skybridge.

0900 Level 3: Dickson notifies PBS of a layer of gypsum wallboard and exposed I-beams at the perimeter of the level. Further investigation reveals that the layer is 2 layers of gypsum wallboard with a layer of plywood sandwiched between them. A layer of potentially contaminated fiberglass batting is on top of the wallboard layering. PBS will bring this condition to other parties associated with the project for further discussion and direction.

0950 Level 3: Three workers are in the Student Lounge wet wiping ceiling I beams. 2 workers are along the southwest window wall assessing ceiling cavity along the window. 7 workers are along the north wall wet wiping and HEPA vacuuming windows and their associated parts. 1 worker is along the entryway wet wiping pipes. 6 workers are in the supply plenum using clean sweep and wet wipes to remove dust from the floor and I beams. Areas on the surface of the I-beams and corrugated pan decking intersections at the flutes have superficial rusting. PBS has discussed with Dickson visual inspection will be for all visible dust, not rust on beams.

1030-1115 Workers break for lunch and return to work.

1200 One worker operating the forklift for material load out from the skybridge.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1 & 3 | Olympic South Levels 1/2/3 |
| | |
| | |
| | - |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai

Name: Claire Tsai

Date: 12/22/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:12/22/21 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1230 One worker is bringing extension cords and supplies from the storage connex in Parking Lot A to level 3. Dickson fuel truck on site to fill generators and tank for heater.

1315 Level 3: One worker is HEPA vacuuming the previous restroom location piping. 1 worker is organizing materials throughout the floor. 3 workers are on the northeast corner of the building HEPA vacuuming and wet wiping the wall studs. 6 workers are along the north side of the building wet wiping and HEPA vacuuming the I beams / metal studs. 1 worker is along the east side of the building wet wiping I beams on mobile scaffolding. 5 workers below in the supply plenum wet wiping and HEPA vacuuming concentrated on the north side of the building.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Claude Tagai.
Name: Claire Tsai



| Asbestos Contractor: Di | ckson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---------------------------|-----------------------|----------------------|---------------|--|------------------------|----------------|----------------|--|
| PBS Site Observer(s): Cla | ire Tsai, Peter Stens | land | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | Date: 12/23/21 | |
| | | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Persor | nnel: | | | | | | | |
| Project Manager | Yes No | Supervisor \ | /es No | Summary Phase Status: | Levels 1 and 2: No wo | ork occurring. | | |
| Workers | Yes No | Name: Corey Fo | oust | Level 3: Continue final of | leaning, PBS visual in | spection of | | |
| How Many? + 22 | | | | Student Lounge. | | | | |
| Air Monitoring Personnel | on site: PBS/Dicks | on | | Other Personnel on Site | : MacDonald Miller (N | dМ) | | |
| WORK DESCRIPTION: Le | evels 1 and 2: No w | ork occurring. Level | 3: Continue | ed final cleaning, PBS inspec | tion of Student Loung | ge. | | |
| | | | | | | | | |
| WORKER PROTECTION: | ½ face respirator, | Tyvek, safety boots, | hard hat | | | | | |

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0715 Level 3: Three workers are loading out. 1 worker outside containment carrying ACM bags to a worker on the stairs who puts the ACM bag into the forklift bin. 1 worker is operating the forklift and drives it to the parking lot.

0740 Level 3: Three workers are wet wiping and HEPA vacuuming the I beams / pan decking along the northwest side of the building. 4 workers along the north side of the building, three are wet wiping and HEPA vacuuming wall studs and I beams. 1 worker is wrapping conduit for disposal in poly sheeting. 5 workers centrally located, 2 are hanging additional lighting, 1 is managing the load out, and 2 are on mobile scaffolds wet wiping and HEPA vacuuming I beams / pan decking. 5 workers below in the supply plenum wet wiping and HEPA vacuuming the I beams and floor on the north side of the building. Dickson has now placed sticky mats at the entrances to the supply plenum to reduce dust transfer between the work areas. PBS sets up an IWA air sample and confirms that both negative air machines exhausting out of the west facing window are functioning properly.

1030-1115 Workers break for lunch and return to work.

1145 Level 3: Three workers are vacuuming along the divider between the student lounge and rest of the work area. 1 worker is inside the Student Lounge installing access zippers. 5 workers are along the north side of the building wiping down I beams and HEPA vacuuming the floor. 6 workers below the floor in the supply plenum HEPA vacuuming PBS collects the IWA air sample.

| ITEMS OF CONCERN: None | |
|---|------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Level 3 | Olympic South Levels 3 |
| | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: White Tsui

Name: Claire Tsai

Date:12/23/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/23/21 |
|---|---------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1230 Workers finish the construction of the poly barrier between the Student Lounge and the rest of the floor. Poly barrier in place to isolate the student lounge from the remainder of the work area to be cleared separately. PBS conducts visual inspection of student lounge with Corey and floor lead.

1330 Level 3: Five workers in the Student Lounge are doing final detail cleaning. 9 workers are on the north half of the building wiping down I beams and pan decking on mobile scaffolding. 6 workers are below the floor in the supply plenum HEPA vacuuming. PBS continues with the visual inspection of the student lounge.

1345 PBS note areas in need of additional cleaning some including window framing, floor mastic near base of mini enclosure to Olympic North, fire sprinkler heads, metal wall framing. PBS visual inspection complete. Workers start cleaning items pointed out during visual. Corey will let PBS know when lounge is ready for second visual inspection.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 PBS off site. Doors locked. Corey still on site will shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Clavice Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai

Date: 12/23/21



| Asbestos Contractor: Dickson | | | | | | Project N | ame: Olympic S | South Abatement & R | lepairs | |
|--|---|-------------------|------------------|-----------|---|--|-----------------------|-----------------------|----------------|----|
| PBS Site Observer(s): Cla | PBS Site Observer(s): Claire Tsai, Mike Smith, Peter Stensland, | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 12 | | | 2/28/21 | | |
| | | | | | | Page 1 | of 2 | Time | 0600 | am |
| Contractor on Site Perso | nnel: | | | | | | | | | |
| Project Manager | t Manager Yes No Supervisor Yes No | | | No | Summary | Phase Status: | Levels 1 and 2: No wo | ork occurring. | | |
| Workers | Yes | No | Name: Corey | y Foust | | Level 3: Continue final cleaning, PBS visual inspection of | | | | |
| How Many? +16 | | | | | | Student L | ounge. | | | |
| Air Monitoring Personne | on site: PBS/D | icksor | 1 | • | | Other Per | sonnel on Site: | : MacDonald Miller (M | 1M) | |
| | | | | | | | . DDC inconsti | | (Catisfastanı) | |
| | | | rk occurring. Le | evel 3: C | ontinue | final cleaning | , PBS Inspectio | on of Student Lounge | (Satisfactory) | • |
| | | | rk occurring. Le | evel 3: C | ontinue | final cleaning | , PBS INSPECTIO | on of Student Lounge | (Satisfactory) | |
| WORK DESCRIPTION: L Reroute heat to heat Lev WORKER PROTECTION | vel 3 more efficie | ently. | <u> </u> | | | final cleaning | , PBS Inspectio | on of Student Lounge | (Satisfactory) | |
| Reroute heat to heat Lev | vel 3 more efficie | ently. | <u> </u> | | | final cleaning | , PBS Inspectio | on of Student Lounge | (Satisfactory) | , |
| Reroute heat to heat Lev | vel 3 more efficie | ently. tor, Ty | vek, safety boo | ots, hard | l hat | ~ | , PBS INSPECTIO | on of Student Lounge | (Satisfactory) | • |

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 Fourteen workers and 1 MM worker are clearing the snow off pathways with shovels around the site and salting them.

0745 Level 3: Three workers are in the Student Lounge. 1 worker is wet wiping down water drainage pipes, 1 worker is cleaning out a wall cavity with goo off and a wet rag, and the third worker is wet wiping the tops of metal framing. 4 workers on mobile scaffolding are wet wiping and HEPA vacuuming the I beams and pan decking on the north side of the building. 2 workers are wet wiping and HEPA vacuuming metal wall studs along the north end of the building. 2 workers are wet wiping and HEPA vacuuming along the top of the eastern wall. 5 workers are below in the supply plenum wet wiping and HEPA vacuuming the floor and I beams along the north side of the building. 2 negative air machines are running in the space (exhausted to the exterior) and 9 negative air machines are on the roof drawing from Level 3, also exhausted to the exterior.

0845 PBS conducts an onsite staff safety meeting. Items discussed included but were not limited to the abundance of snow/ice – using care when walking/driving and being careful while accessing and moving around the roof.

1030-1115 Workers break for lunch and return to work.

| ITEMS OF CONCERN: None | |
|--|--------------------------|
| CHANGES IN SCOPE: None | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 3 | Olympic South Levels 2/3 |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 12/28/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 12/28/21 |
|---|--------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1130 One worker enters the Level 1 and 2 containments to vent heated air to level 3.

1200 Level 3: PBS conducts second visual inspection with Corey and floor lead in the Student Lounge. Workers available to spot clean as needed.

1245 Level 3: Four workers, Corey, Dan (MM) and PBS are in the Student Lounge continuing visual inspection. 1 worker is scraping residual mastic along the wall by the Olympic N exit, 1 worker is HEPA vacuuming the I beams on a ladder. 1 worker is on mobile scaffolding wet wiping and HEPA vacuuming the I beams along the north windows. In the main work area, 8 workers are on the north half of the floor - 5 are on mobile scaffolding wet wiping and HEPA vacuuming the I beams, pans decking, and sprinkler system. The 3 workers not on mobile scaffolding are wet wiping and stacking the server floor panels onto pallets.

1345 PBS collects the air samples from inside and outside of the work areas in preparation for the end of the day. Dan (MM) exits level 3 containment.

1350 Student lounge visual inspection for cleaning satisfactory. PBS will walk through once more to confirm finishes (window frames, sprinkler heads, etc.) are protected before encapsulant is applied.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. 1 Sunbelt rentals worker on site to do maintenance on the generator.

1500 PBS departs the site. Corey and MM will shut down generators and secure building.

Signature:

Name: Mike Smith Date: 12/28/21



| Asbestos Contractor: Di | ckson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---------------------------|---------------------|----------------------|-----------|--|-----------------------|----------------|---------|--|
| PBS Site Observer(s): Cla | ire Tsai, Peter Ste | ensland | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 1 | | | 2/29/21 | |
| | | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Persor | nnel: | | | | | | | |
| Project Manager | Yes N | No Supervisor | Yes No | Summary Phase Status: | Levels 1 and 2: No wo | ork occurring. | | |
| Workers | Yes N | No Name: Corey | / Foust | Level 3: Continue final of | leaning, Dickson enca | apsulation of | | |
| How Many? + 22 | | | | Student Lounge. | | | | |
| Air Monitoring Personnel | on site: PBS/Dicl | kson | | Other Personnel on Site | : MacDonald Miller (N | MM) | | |
| WORK DESCRIPTION: Le | | | | final cleaning, Dickson enc | apsulation of Student | Lounge. | | |
| METHOD OF REMOVAL | : wet methods, m | nanual, saws, HEPA | vacuuming | | | | | |
| OBSERVATIONS: | | | | | | | | |
| OBSERVATIONS. | | | | | | | | |

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0730 Level 3: Three workers are in the Student Lounge - 2 are taping poly sheeting over the windows in preparation for encapsulating and 1 worker is preparing the encapsulant bucket for spraying. 1 worker is along the north wall HEPA vacuuming the metal wall studs. 2 workers are along the east wall on mobile scaffolding HEPA vacuuming and wet wiping I beams and pan decking, 4 workers are in the center of the floor wet wiping between the I beams and pan decking, 3 workers are along the west wall on mobile scaffolding - 2 are removing GWB ceiling from along the window with a Sawzall and 1 worker is grabbing more rags and tools for cleaning. 5 workers below in the supply plenum continue with wet wiping and HEPA vacuuming I beams on the north half of the building. Two worker assisting from outside containment bringing rags and material to Level 3.

0810 The encapsulate is too cold and is not the right consistency to be sprayed yet, the workers are heating it up with a portable heating unit.

0900 Level 3: One worker is in the Student Lounge preparing the airless sprayer to encapsulate the area. 3 workers are on the north side of the building organizing tools and doing general housekeeping. 2 workers are stacking server panels onto pallets. 5 workers are in the center of the building wet wiping the pans decking / I beams / water lines. 5 workers below in the supply plenum continue wet wiping and HEPA vacuuming I beams on the north half of the building. Both negative air machines exhausting out of the west side are functioning properly. The one scrubbing negative air is sealed and not

| ITEMS OF CONCERN: None | |
|---|--------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Level 3 | Olympic South Building Level 3 |
| | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Clavice Tsai Date: 12/29/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:12/29/21 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

running. One worker outside containment general housekeeping of stairwell, one worker bringing materials to level 3 as needed.

0940 Floor lead in student lounge spraying encapsulant with airless sprayer. PBS has confirmed finishes to be protected have been covered.

1000 Two workers enter student lounge to assist with encapsulation. One worker takes over spraying encapsulant one worker available to assist with ladder. Floor lead in area documenting work with photos.

1030-1115 Workers break for lunch and return to work.

1157 Two workers in Parking lot A area spreading salt for de-icing.

1220 Three workers are bringing in supplies to the Level 3 containment.

1245 Level 3: One worker in the Student Lounge spraying encapsulant on the western wall. In the main containment 5 workers are in the center of the floor wet wiping and HEPA vacuuming the pan decking and I beams. 2 workers are along the north side of the building wrapping demolished metal studs in poly sheeting for disposal (the studs are sprayed with water before being bagged / wrapped). 6 workers below in the supply plenum on the north half of the building continue wet wiping and HEPA vacuuming the I beams. 2 negative air machines are running in the space (exhausted to the exterior) and 9 negative air machines are on the roof drawing from Level 3, also exhausted to the exterior.

1400 PBS collects inside and outside air samples throughout the work site.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 PBS departs the site. Doors locked. Corey will shut down generators.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Laure T Suri Name: Claire Tsai

Date: 12/29/21



| Asbestos Contractor: Dicks | son | Project Name: Olympic South Abatement & Repairs | | | |
|--|--|---|--------------------|----------------|--|
| PBS Site Observer(s): Claire Ferman Fletcher | BS Site Observer(s): Claire Tsai, Peter Stensland, Cameron Budnick, erman Fletcher | | | Date: 12/30/21 | |
| | | Page 1 of 2 | Time | 0600 am | |
| Contractor on Site Personne | el: | | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: Levels 1 | and 2: No work oc | curring. | |
| Workers | Yes No Name: Eric Baunsgard | Level 3: Continue final cleaning, | PBS collects TEM a | ggressive air | |
| How Many? + 11 | | clearance samples in the Studer | nt Lounge | | |
| Air Monitoring Personnel or | n site: PBS/Dickson | Other Personnel on Site: MacDo | onald Miller (MM) | | |

WORK DESCRIPTION: Levels 1 and 2: No work occurring. Level 3: Continue final cleaning, PBS collect TEM clearance samples for the Student Lounge.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods, manual, saws, HEPA vacuuming

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Corey F. off site due to snow. Eric is standing in as on-site supervisor today.

0630 PBS set up daily air samples on site and prep equipment for aggressive air clearance in student lounge on level 3.

0715 Level 3: Five workers on the north half of the building, 2 are on mobile scaffolding wet wiping and HEPA vacuuming the pan decking, 1 worker is HEPA vacuuming the floor, two workers are organizing tools for loadout / load-in. 1 worker is on the southwest side of the building removing GWB ceiling from above the windows with a prybar and drill. 3 workers are below in the supply plenum wet wiping and HEPA vacuuming throughout the north half of the building. One worker outside containment loading supplies in as needed.

1030-1115 Workers break for lunch and return to work.

1025 PBS initiate Level 3 student lounge aggressive air clearance including inside and outside samples. The Student Lounge is isolated from the rest of the work area and labeled "Do Not Enter". Poly sheeting has been removed from windows and sprinkler head covers removed.

1145 Level 3: Nine workers observed in containment. 5 workers are spread across the floor cleaning the ceiling by wet wiping with rags, and HEPA vacuuming. 2 are HEPA vacuuming the floor around the previous server and power rooms. 2 workers are underneath the floor in the supply plenum along the east wall cleaning with rags and HEPA vacuums.

| ITEMS OF CONCERN: None | |
|--|------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 3 | Olympic South Level 3 |
| | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Laure Tsai.

Name: Claire Tsai

Date: 12/30/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:12/30/21 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1225 PBS collects clearance samples associated with student lounge.

1245 One PBS worker moves contents from sampled materials to connex for storage. Then PBS continues inventory work on level 1 contents.

1340 Level 3: Nine workers observed in 3rd floor. 4 workers are spread across the floor cleaning the ceiling by wetting, wiping with rags, and HEPA vacuuming. 1 worker is HEPA vacuuming the floor around the north walls, 1 worker is spraying down sections of the ceiling to mitigate dust. 1 worker continues cleaning under the east wall with rags and HEPA vacuums. 2 workers are doing housekeeping and organizing and moving equipment. One worker outside containment loading supplies in as needed.

1400 PBS collects inside and outside air samples throughout the work site.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 PBS departs the site. Doors locked. Dan MM shutting down generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Claude T Sai

Date: 12/30/21



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|---|-------------------|--|----------------------------|-----------------------|----------------|------------|
| PBS Site Observer(s): Mike Smith, Peter Stensland | | | PBS Project No.: 40535.4 DES Project No.: 2021-19 | | Date: 12 | Date: 12/31/21 | |
| | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Perso | nnel: | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status: I | Levels 1 and 2: No wo | ork occurring. | |
| Workers | Yes No | Name: Corey | Foust | Level 3: Continue final cl | eaning, Student Lour | nge is separat | ed by poly |
| How Many? + 18 | | | | sheeting from other wor | k areas. | | |
| | l:t DDC /D:-l | | | | | | |
| Air Monitoring Personne | on site: PBS/DICKSO | n | | Other Personnel on Site: | : MacDonald Miller (N | MM) | |
| WORK DESCRIPTION: L | evels 1 and 2: No wo | | vel 3: Continue | Other Personnel on Site: | · | <u> </u> | d from |
| | evels 1 and 2: No wo | ork occurring. Le | | | · | <u> </u> | d from |
| WORK DESCRIPTION: L | evels 1 and 2: No wo ork area. : ½ face respirator, T | ork occurring. Le | ts, hard hat | | · | <u> </u> | d from |

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 Level 3: One worker is on the north wall wet wiping and HEPA vacuuming the wall cavity between metal studs. 5 workers in the middle of the floor wet wiping and HEPA vacuuming pan decking and I beams, workers are also utilizing wire brushes and steel wool to scrape off adhesives and other residues. 1 worker is going throughout the floor bagging insulation and other general debris for disposal. 2 workers are in the southeast corner of the room fixing the hanging poly sheeting along the windows. 5 workers are below in the supply plenum wet wiping and HEPA vacuuming throughout the northwest side of the building. 1 worker assisting with supplies outside containment.

0930 Level 3: One worker is wet wiping and HEPA vacuuming the wall cavity between metal studs along the north wall. 5 workers along the east wall, 3 are on mobile scaffolding, all are wet wiping and HEPA vacuuming the metal studs, I beams, and pan decking. The workers are also utilizing wire brushes to remove adhesives from the surface. 3 workers are on the south side of the building are on mobile scaffolding wet wiping and HEPA vacuuming the water pipes, pan decking and I beams. 2 workers are in the southeast corner securing poly sheeting to the window after removing remaining GWB wall and fiberglass insulation. 1 worker is bringing in supplies from outside of the containment. Five workers in the supply plenum around the center of the floor wet wiping and HEPA vacuuming the space. Both negative air machines exhausting

| ITEMS OF CONCERN: None | |
|---|------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Level 3 | Olympic South Level 3 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 12/31/21



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:12/31/21 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

out of the west side of the building are running properly. The student lounge remains isolated with strong negative air pressure.

1030-1115 Workers break for lunch and return to work.

1155 Two workers refilling the fuel tanks for the generator and heater.

1230 Level 3: One worker is removing the poly sheet covering and wiping down the outside of the old electrical panels. 3 workers are along the eastern wall wet wiping and HEPA vacuuming the I beams and pan decking. 2 workers are going throughout the floor collecting dirty rag bags, spraying them with water and sealing them for disposal. 1 worker on the west side of the containment on mobile scaffolding wet wiping between the I beams and the pan decking. 4 workers are below in the supply plenum wet wiping and HEPA vacuuming the I beams.

1330 Work efforts continue as noted.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 PBS and the workers off site for the day. Corey still on site and will shut down generators and secure building.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Michal / mit

Name: Mike Smith

Date12/31/21



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|--|-------------------------------|---|----------------------|-----------------|-------------|--|
| PBS Site Observer(s): Claire Tsai, Kaitlin Soukup | | | PBS Project No.: 40535.4 DES Project No.: 2021-19 | | Date:1/3 | Date:1/3/22 | |
| | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Person | nnel: | | | | | | |
| Project Manager | Yes No | Supervisor Yes No | Summary Phase Status: L | evels 1 and 2: No wo | ork occurring. | | |
| Workers | Yes No | Name: Corey Foust | Level 3: Continue final cle | eaning, Student Loun | nge is separate | ed by poly | |
| How Many? + 22 | | _ | sheeting from other work areas. | | | | |
| | | | | | | | |
| Air Monitoring Personne | l on site: PBS/Dickson | | Other Personnel on Site: | MacDonald Miller (M | ИМ) | | |
| WORK DESCRIPTION: Let the rest of the level 3 wo | evels 1 and 2: No wor rk area. | k occurring. Level 3: Continu | Other Personnel on Site: e final cleaning. The Student L | <u> </u> | <u> </u> | d from | |
| WORK DESCRIPTION: Let the rest of the level 3 wo | evels 1 and 2: No wor rk area. | · | | <u> </u> | <u> </u> | d from | |
| WORK DESCRIPTION: Let the rest of the level 3 wo | evels 1 and 2: No wor rk area. ½ face respirator, Ty | k occurring. Level 3: Continu | | <u> </u> | <u> </u> | d from | |

0715 PBS on site. Corey F not on site yet due to snow. Other Dickson supervisors are present on site. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0720 Dickson is using their Forklift in parking lot A to transfer waste bags to the storage/disposal container. 1 operator and one spotter. Three workers in stairwell outside of containment loading out waste bags via skybridge to forklift.

0800 PBS set up daily air samples around site.

0830 Level 3: Two workers are suiting up to enter containment one worker is exiting the containment. 13 workers observed in the main floor of containment and six workers observed below the floor. 1 worker is documenting work in area. 1 worker doing preliminary visual inspection of areas cleaned - worker marks areas in need of further cleaning with duct tape. One worker is wet wiping remaining restroom framing associated with plumbing. 5 workers wet wiping and HEPA vacuuming ceiling components in south area of containment. 1 worker is building fall protection railing with 2" x 4"s in the south area near server floor ledge. 1 worker is assisting from outside of the containment with worker personal pumps and bring supplies to containment as needed. Gypsum and insulation near east and west windows in the south containment area has been removed.

0900 Dickson fuel truck on site filling up generators.

0910 Rick MM enter Level 3 containment for a walk-through.

1015 Two Dickson workers clean up small fuel spill near generator from refill.

| ITEMS OF CONCERN: None | |
|---|------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Level 3 | Olympic South Level 3 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Mull TSUL

Name: Claire Tsai

Date: 1/3/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/3/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1030-1115 Workers break for lunch and return to work.

1115 Corey on site.

1200 Level 3: PBS enters containment. 1 worker on scaffolding cleaning roof decking and beams at north area above windows (previously had tape marking areas needing additional cleaning), 1 worker is at the southwest side of the floor above windows, 2 workers are at the south area above server room floor, 2 workers are at the southeast side of the floor. 2 workers are cleaning the southeast windows (under poly). 2 workers at plumbing connections at west center (south of student lounge entrance). 1 worker exits space under floor.

PBS enters Level 3 student lounge to collect surface dust samples as part of final clearance in addition to the aggressive air samples collected.

1210 Level 3: Floor lead in containment shuffling workers around. One worker re-entering space under floor.

1215 Level 3: Currently three total workers in space under floor.

1350 Level 3: PBS enters containment. 1 worker is dressing to re-enter containment. 1 worker cleaning plumbing using a HEPA vacuum south of student lounge entrance. 2 workers are on scaffolding at the southwest side of the floor above server room floor wiping roof decking and components at ceiling. 2 workers are on scaffolding on the southeast side of the floor wiping roof decking and components at ceiling height. 1 worker is on the southeast side of the floor cleaning the floor and wall cavities that were previously below server floor. 5 workers observed in the space below the floor.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1450 PBS off site. Doors locked. Dan and Corey still on site will shut off generator

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Date: 1/3/22



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|------------------------------|---|-------|---|---------------|---|-----------------------|----------------|-----------|
| PBS Site Observer(s) Mik | S Site Observer(s) Mike Smith, Cameron Budnick PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 1/4/22 | | | | | |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Perso | nnel: | | | | _ | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | Levels 1 and 2: No we | ork occurring. | |
| Workers | Yes | No | Name: Core | ey Foust | Level 3: Continue final cleaning, Student Lounge has passed | | | |
| How Many? + 19 | | | | | clearance and is separat | ed by poly sheeting t | rom other wo | rk areas. |
| Air Monitoring Personne | on site: PBS/Die | cksor | 1 | | Other Personnel on Site | : MacDonald Miller (N | ИМ) | |

WORK DESCRIPTION: Levels 1 and 2: No work occurring. Level 3: Continue final cleaning. Having passed air clearance sampling, The Student Lounge has passed clearance and remains isolated and closed from the rest of the level 3 work area.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 Level 3: One worker is HEPA vacuuming along cracks and the studs in the former electrical room. 1 worker is inspecting the electrical paneling. 2 workers along the west wall are cleaning with wet rags and HEPA vacuums along the edge of the windows and the ceiling, as well as nearby I-beams. 2 workers are moving equipment to clean the ceiling in the SW section of the floor. 4 workers are setting up scaffolding along the SE corner of the floor with one worker just to the west wet wiping the ceiling pan decking. 1 worker replacing small section of server floor paneling. 1 worker is under the server floor in the north-central portion. 4 more workers are further south and East, wet wiping and HEPA vacuuming. 17 workers observed in containment.

0830 Corey F advised that north grid line (Level 3) sub-floor are ready for inspection. He anticipates several more to be complete by the end of the day.

0930 Level 3: One worker HEPA vacuuming general work area to keep down dust. 2 workers are wiping down the south most I-beam running east-west. 2 workers are wet wiping and HEPA vacuuming the windowsills along the east wall after pulling back the poly sheeting. 1 worker against the south wall is wet wiping the I beams and fire systems plumbing. 2 workers on scaffolding against the west wall wiping along the top of the windows with wet wiping and HEPA vacuums. 2 workers on the floor wiping the lower section of the same windows. 5 workers are underneath the floor continuing

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 3

1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 1/4/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/4/22 |
|---|--------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

cleaning efforts. 4 workers are on the west portion of the subfloor and 1 cleaning along the perimeter of the east side. 1 additional worker entered containment while PBS was inside. 1 worker entered subfloor west area. 17 workers observed.

1030-1115 Workers break for lunch and return to work.

1140 Level 3: Three workers are HEPA vacuuming/wet wiping windowsills along the west wall of the third floor, 1 worker is on scaffolding cleaning the upper portions. 1 worker is along the south wall cleaning the roof pan decking. 2 workers remain in the middle of the server floor cleaning the ceiling pan decking. 2 workers are on the east window wall removing drywall and any remaining insulation. 8 workers are cleaning the same areas underneath the floor. 17 workers observed.

1250 Level 3: Two workers discussing window cleaning plans. 2 workers are cleaning the upper windowsill on the east window bank. 3 workers are on scaffolding in the central server floor cleaning the studs and roof decking. 2 workers are behind the poly sheeting on the west window bank cleaning the sills and removing any fugitive dust and debris. 1 worker is on scaffolding along the west window bank cleaning the upper sills. 6 workers are underneath the floor cleaning the primarily west side of the subfloor. 16 workers observed on the floor.

1345 Level 3: Sixteen workers observed. 6 workers are working under the floor, primarily on the west side of the floor. 2 workers are behind poly sheeting along the West Bank of windows, cleaning sills. 1 worker is on scaffolding on the same side, cleaning the upper sills. 3 workers are in the central server floor wiping down ceiling pans and I beams. 2 workers are on scaffolding along the east window bank, cleaning sills. 2 workers are HEPA vacuuming General floor areas and along the former electrical room. Work is generally continuing as noted from the last observation.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1450 PBS off site. Doors locked. Dan and Corey still on site will shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith Date: 1/4/22



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|----------------------------------|----------------------|--------------------------|---|---|----------------|--|--|--|
| PBS Site Observer(s): Cla | ire Tsai, Toan Nguye | n, Gregg Middaugh | PBS Project No.: 40535.48 DES Project No.: 2021-19 | | Date: 1/5/22 | | | |
| | | | Page 1 of 2 | Time | 0600 am | | | |
| Contractor on Site Person | nnel: | | | | | | | |
| Project Manager | Yes No | Supervisor Yes No | Summary Phase Status: Le | evels 1 and 2: No w | ork occurring. | | | |
| Workers Yes No Name: Corey Foust | | | Level 3: Continue final cle | Level 3: Continue final cleaning, Student Lounge remains separate | | | | |
| How Many? +20 | | | by poly sheeting from other work areas. | | | | | |
| Air Monitoring Personne | on site: PBS/Dickso | n | Other Personnel on Site: I | MacDonald Miller (I | MM) | | | |

WORK DESCRIPTION: Levels 1 and 2: No work occurring. Level 3: Continue final cleaning. Having passed air clearance sampling, the Student Lounge remains isolated and closed from the rest of the level 3 work area.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat.

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0830 Level 3: PBS walks through the floor with Corey. Corey has noted areas in need of touching up in the north grid section. 12 workers plus Cory are on the main floor, 9 workers are in the south grid section. 3 workers are in the north section touching up areas noted by Corey during his visual. 9 workers are in sub floor - spread out wet wiping and HEPA vacuuming components. PBS walks with Corey through north grid section and note areas in need of more cleaning. Corey will notify PBS when items have been addressed and area is ready for visual inspection.

0949 Level 3: Five workers are on mobile scaffolding using HEPA vacuums and wet wiping to remove dust. 2 workers are moving and handling equipment. 3 workers are at the hatch opening to the plenum to lower down equipment. Work below sub floor continues as before.

1000 PBS project manager Gregg M on site for walk through.

1030-1115 Workers break for lunch and return to work.

1215 Level 3: PBS walks through student lounge with Dan (MM) – The area remains isolated from active work areas.

Level 3 main containment: Four workers are using the mobile scaffolding on server floor wet wiping and HEPA vacuuming to remove dust from ceiling components. There are 5 workers on the northeast side of the floor using HEPA vacuums to remove dust from aluminum window frames.

| ITEMS OF CONCERN: None | |
|---|------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Level 3 | Olympic South Level 3 |
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| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claire Tsai

Date: 1/5/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/5/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1253 Level 3: Five workers are on the west side of the floor, on scaffolds or ladders, along with damp rags and HEPA vacuums cleaning hard to reach horizontal surfaces. There are 6 workers at various locations on the floor detail cleaning sidings, floor vents, and hatch. Other workers continue wet wiping and HEPA vacuuming inside the supply plenum.

1300 Level 3: PBS walk through north grid section with Corey and floor lead, two workers available to clean items as noted during visual inspection. PBS inspect below floor and workers touch up as needed. Gypsum wallboard found at east wall near stairwell area. PBS requests worker to remove wallboard to view behind. Wall cavity is open to the west wall cavity of the stairwell. PBS collect microvac sample from I-beam in cavity.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1520 PBS, Corey and MM off site. Doors locked, generator is off.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Clavice Tssai Name: Claire Tsai

The individual signing certifies that the above information is correct and accurate.

Date: 1/5/22



| Asbestos Contractor: Dickson | | | | | | Project | Name: Olympic : | South Abatement & Re | pairs | |
|----------------------------------|----------------------|----------|------------------|-----------|----------|--------------|---------------------------------------|----------------------------|----------------|----------|
| PBS Site Observer(s): Claire Tsa | i, Toan | Nguye | n, Gregg Midd | augh | | | ject No.: 40535.4 ject No.: 2021-1 | | Date: 1/ | 6/22 |
| | | | | | | Page 1 | of 2 | Time | 0600 | am |
| Contractor on Site Personnel: | | | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summa | ry Phase Status: | Levels 1 and 2: No wor | k occurring. | |
| Workers | Yes | No | Name: Core | y Foust | | Level 3: | Continue final c | leaning, Student Loung | je remains so | eparated |
| How Many? + 22 | | | | | | and are | as that had serve | er floor panels will be is | olated. | |
| Air Monitoring Personnel on sit | e: PBS/[| Dicksor | n | | | Other P | ersonnel on Site | : MacDonald Miller (MI | VI) | |
| WORK DESCRIPTION: Levels 1 | and 2: | No wo | rk occurring. Le | evel 3: C | Continue | final cleani | ng. Dickson isola | ating areas that have se | erver floor pa | anels. |
| Having passed air clearance sar | npling, ⁻ | The Stu | udent Lounge i | remains | isolated | and closed | from the rest of | f the level 3 work area. | | |
| WORKER PROTECTION: 1/2 fac | e respira | ator, Ty | vek, safety bo | ots, har | d hat | | | | | |
| | • | | • | | | | | | | |
| METHOD OF REMOVAL: wet n | nethods | manu | al and saws | | | | | | | |
| | | | | | | | | | | |
| ODCEDVATIONS: | | | | | | | | | | |

0800 PBS on site. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas.

0900 Level 3: Two workers HEPA vacuuming and wet wiping the wall studs on the north wall (north grid). 6 workers are in the sub floor work area continuing with final cleaning. 6 workers in south area are on the mobile scaffolding, cleaning horizontal surfaces on structural I-Beams. 2 workers are detailing floor vents and metal server floor panels.

0900-1040 Meeting on site with John, Dan (MM), Todd, Corey (Dickson), Gregg and Claire (PBS) to review overall project schedule.

1030-1115 Workers break for lunch and return to work.

The individual signing certifies that the above

information is correct and accurate.

1115 Dickson crew is back from lunch break and are gathered on Level 3.

1130 PBS enters level 3 for visual inspection of north grid sections. Corey and Todd in containment. 12 workers are dismantling scaffolding and doing general housekeeping - cords are being wound up and, equipment and materials are being gathered into one area. Remaining workers touch up punch list items pointed out by PBS during visual inspection. Completion of noted deficiencies will likely occur tomorrow at some point. PBS will recheck the area when Dickson has indicated that the requested items have been completed. Two Dickson workers are using a Sawzall to make an opening for PBS to take microvac samples of gypsum wallboard at the north perimeter wall at corrugated metal pan decking between windows and I-beam.

| ITEMS OF CONCERN: None | |
|---|------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Level 3 | Olympic South Level 3 |
| | |
| | |
| | Λ. |

Signature: Claure Tsai

Date: 1/6/22

Name: Claire Tsai



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/6/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1240 Level 3: PBS collects 3 microvac samples in the previously noted area. 6 workers are doing general housekeeping and hanging poly sheeting on the southeast side of the floor to isolate the portions of the level that had raised metal floor paneling.

1300 Level 3: Two workers are using poly sheeting as a drop sheet to lay dismantled scaffolding pieces on top. 1 worker is installing filters for the poly sheet wall that separates the work area from the student lounge for more make up air into the space. There are 5 workers doing general housekeeping. 2 workers are using HEPA vacuums and damp rags to detail hard to reach surfaces.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1400-1500 PBS attends the weekly construction meeting with the project team.

1520 PBS off site. Doors locked. Dan and Corey still on site will shut off generator

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Claure Tsai

Date: 1/6/22



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|----------------------------------|------------------|-------|---|--------|---|-----------------------|----------|-------|
| PBS Site Observer(s): Clai | re Tsai, Mike Sr | nith, | Гоап Nguyen | | PBS Project No.: 40535.4 DES Project No.: 2021-1 | | Date: 1, | /7/22 |
| | | | | | Page 1 of 2 | Time | 0800 | am |
| Contractor on Site Person | nel: | | | _ | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | Level 1: Load in Equi | pment. | |
| Workers Yes No Name: Corey Foust | | | Level 2: Cut GWB. Level 3: final cleaning continues | | | | | |
| How Many? +21 | | | | | MM capping water syste | ems LV 1-3 | | |
| Air Monitoring Personnel | on site: PBS/Di | cksor | | | Other Personnel on Site | : MacDonald Miller (I | MM) | |

WORK DESCRIPTION: Level: 1 MM capping water systems. Level 2: Cutting GWB, MM capping water systems. Level 3: Continue final cleaning.

Areas that have server floor panels now isolated. The Student Lounge remains isolated. MM capping water systems

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0800 PBS arrives on site and walks the building exteriors and notes a couple of negative air machines that don't look like they are running. Discuss machines with Corey, Corey will investigate – potential for breakers to have tripped. Dickson workers outside containment are loading ACM bags/wraps from level 3 into the forklift bin (via the Level 2 skybridge) to be transported to the waste container in Parking Lot A. Dickson is also removing cleaned scaffolding from Level 3 and staging it to be used in other areas. Corey advises no ACM container is scheduled for pick up today. Prior to PBS' arrival this morning, an MM employee was on Levels 1-3 capping plumbing lines for sinks and restrooms. 3 sinks on Level 2 remain active for Dickson's water usage.

0900 Level 3: There are approximately 12 workers inside the work area. 7 of 12 workers are doing general housekeeping to move equipment out not in use. 2 workers are in the clean room loading out ACM waste bags. 3 workers are using tape to isolate space below the student lounge from the rest of the plenum crawlspace.

0945 Level 3: Five workers observed in the plenum crawlspace on the 3rd floor. All workers are using HEPA vacuums and wet wiping to remove dust from horizontal surfaces, such as I-beams, water lines.

0930 Dickson continues loading out ACM bags/wraps one operator, one spotter being used enroute as safety measures. MM resecuring visual fence with zip ties in parking lot A.

1030-1115 Workers break for lunch and return to work. One worker off site for the day.

1115 Level 1: Two workers are on the level, loading in equipment and demarcating work areas.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Level 3 | Olympic South Levels 1/2/3 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 1/7/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/7/22 |
|---|--------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Level 2: Two workers on the level. 2 of the workers are using Sawzalls and HEPA vacuums to cut gypsum walls to create doorways across room O369 and O370. Workers are also precutting the gypsum wallboard for removal.

1215 Corey communicated workers on level 3 are still working on items pointed out during PBS visual from 1/6. Dickson anticipates being ready for another visual Monday 1/10.

1245 Level 3: One worker housekeeping in clean room. PBS enter level 3 containment; 4 workers are in the southwest floor plenum. 2 workers are in the east plenum section, 6 workers are above floor, 1 in south section sealing gaps in pan decking above I beams, 2 vacuuming floor, and 3 workers are cleaning gap in floor near student lounge. Dickson has added three negative air machines (NA16 and NA24) at the south end of the floor plenum pulling from the floor space. The exhaust of these negative air machines are leading toward the main negative air at the roof.

1330 One worker housekeeping in level 3 clean room continuing into stairwell.

1340 Two workers and Corey go to roof to investigate negative air machine covers and touch up as needed. Workers secure negative air machine shelters to AHU caps with rope due to strong wind on roof.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1420 PBS communicate to Corey that floor grills on level 3 need to be protected while Dickson is encapsulating work area.

1440 Corey and MM off site. Doors are locked.

1520 PBS shut off generator and leave site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Michael Mm M

Name: Mike Smith

Date: 1/7/22



Date: 1/10/22

| Asbestos Contractor: Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|--|--|--|------------|----------|--|-------------------|-----------------------|--|------------|--|
| PBS Site Observer(s): Claire Tsai, Toan Nguyen, Ferman Fletcher | | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | Date: 1 | e: 1/10/22 | |
| | | | | | Page 1 | of 2 | Time | 0700 | am | |
| Contractor on Site Person | nel: | | | | | | | | | |
| Project Manager | Yes No | Supervisor | Yes | No | Summar | y Phase Status: | Level 1: Water cleanu | ıp. Level 2: GV | VB | |
| Workers | Workers Yes No Name: Corey Foust | | | | Demoliti | on, prep for fire | proofing removal. Le | evel 3: Continu | ied | |
| How Many? +24 | | | | | final clea | ning. | | | | |
| | : | | | | | | | | | |
| Air Monitoring Personnel | on site: PBS/Dickso | n | | | Other Pe | ersonnel on Site | : MacDonald Miller (N | MM) | | |
| WORK DESCRIPTION: Lewater pipe. Level 3: Continuous WORKER PROTECTION: | vel 1: Cleanup wate nued Final cleaning | r near ECE. Leve throughout lev | el and sub | ofloor a | board dem | | · | <u>, </u> | er cap | |
| WORK DESCRIPTION: Lew water pipe. Level 3: Contil | vel 1: Cleanup wate nued Final cleaning ½ face respirator, T | r near ECE. Lev throughout lev yvek, safety bo | el and sub | ofloor a | board dem | | · | <u>, </u> | er cap | |
| WORK DESCRIPTION: Lew water pipe. Level 3: Continuous WORKER PROTECTION: | vel 1: Cleanup wate nued Final cleaning ½ face respirator, T | r near ECE. Lev throughout lev yvek, safety bo | el and sub | ofloor a | board dem | | · | <u>, </u> | er cap | |

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0730 One worker by ECE clean room, moving equipment around.

information is correct and accurate.

0800 One worker in the Level 1 clean room, suiting up in Tyvek and half face respirator to enter the enclosure.

0830 Level 3: Two workers are suiting-up to enter the enclosure. 2 workers are the using tape to double bag ACM wastes. 2 workers at the server floor where Room O323 was previously located, cleaning with HEPA vacuums. 5 workers are in the plenum crawlspace, using wet rags and HEPA vacuums for dust removal. Negative air machines #14, 26 and 28 are turned on and in use for the plenum crawl space. These machines are being exhausted to the exterior through the roof.

0835 Level 1: PBS enters the containment. One worker cleaning up water from pipe cut on Level 2 during wall demo. Water has been shut off and MM Plumber will be caping the pipe. The water is in ECE hallway. This area has had contents removed previously.

0900 Level 3: PBS observers on site are visually inspecting surfaces for any remaining dust or debris in the upper floor work area. PBS note areas in need of additional cleaning with tape. Dickson workers in area spot clean items marked by PBS as visual continues.

Level 2: Five workers are performing gypsum wallboard demolition in Room 271. 5 workers are performing gypsum wallboard demolition in Rooms 281 and 282.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| The individual signing certifies that the above | Signature: Clavice Taxii |

Name: Claire Tsai



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/10/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1030-1115 Workers break for lunch and return to work.

1047 PBS enter Level 1 containment with Corey F. Meet Rick and MM plumber on Level 2. Water has been shut off. Plumber on site to cap plumbing line that was cut during wall demo. Impacted pipe is between Rooms 270 and 271 where sinks used to be. 1 straight run of pipe removed; each end point capped. PBS walk through Levels 1 and 2 marking additional contents approved for disposal.

1150 Level 2: One worker loads up shower to fireproofing removal area Rooms 283/284. 1 worker is rolling tip bin to Art Gallery from Room 270 staging waste bags for load out. 4 workers in Rooms 270 load tip bin with bagged gypsum wallboard and wall insulation. 3 workers are in south hallway bagging wallboard debris and insulation. 4 workers are in Room 283 prepping area for fireproofing removal. 2 workers are on ladders hanging poly sheeting on the north wall, 2 workers are hanging poly sheeting on east wall one on top scaffolding 1 assisting from the ground. 1 MM plumber in area to cap plumbing line. 12 observed in level plus MM plumber.

1210 Forklift driver moving supplies from connex to ECE drive through. 1 worker in parking lot. Le May on site swapping dumpster for empty container.

1223 Level 3: PBS observers continue to visually inspect surfaces – now checking sprinkler systems and overhead pipes.

1300 Level 3: One worker exits containment for the day. 5 workers are under the floor, 3 workers are wrapping floor grills to protect from encapsulant. 1 worker is removing insulation found above south windows on east and west walls. PBS finds sprinkler systems are clean. Level 3 visual generally satisfactory, workers have small punch list of items to touch up above the floor.

1330 One worker is collecting worker personal air samples and bringing them to Dickson trailer.

1354 Level 2: Ten workers continue with gypsum wallboard demolition as previously noted and cleaning up demolition debris. All demolition is being put into ACM bags.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS leaving site. Doors locked Corey and MM still on site will shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: // Sai

Name: Claire Tsai

Date: 1/10/22



| Asbestos Contractor: Dic | kson | Project Name: Olympic South Abatement & Repairs | | | |
|---|--|--|-------------------------|--|--|
| PBS Site Observer(s): Clair Fletcher | re Tsai, Mike Smith, Toan Nguyen, Ferman | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 1/11/2 | | | |
| | | Page 1 of 2 Time | 0700 am | | |
| Contractor on Site Person | nel: | | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: Level 1: No work | occurring. Level 2: GWB | | |
| Workers | Yes No Name: Corey Foust | Demolition, prep for fireproofing remove | al. Level 3: Continued | | |
| How Many? + 23 (One lef | t early) | final cleaning. PBS inspect select subfloc | r areas. | | |
| Air Monitoring Personnel | on site: PBS/Dickson | Other Personnel on Site: MacDonald Mil | ler (MM) | | |
| - | | | | | |

WORK DESCRIPTION: Level 1: No work Occurring. Level 2: Gypsum wallboard demolition, prep for fireproofing removal. Level 3: Continued final cleaning throughout level and subfloor areas. PBS inspects select subfloor areas.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0700 PBS on site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0730 Dickson is loading out ACM bags from level 2 via the skybridge. 2 workers are on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A.

0830 Level 3: Three negative air machines with intake hose pointing down to the plenum crawlspace, NA14, 28, and 26 are exhausting towards the roof. All other negative air machines on this level are running and functioning normally. 2 workers are using scaffolding and ladders to wet wipe horizontal surfaces marked by PBS. 2 workers are wet wiping the cut-out where the air grills used to be in the floor. 1 worker at is the plenum crawlspace hatch using a HEPA vacuum to remove dust. 6 workers are continuing cleaning efforts in the plenum crawlspace. All are using HEPA vacuums and wet wiping to remove any dust and debris present.

0850 Loadout continues from level 2 via skybridge. 1 worker outside the containment loading ACM bags into forklift bin. Waste bags are double wrapped. Outer bag appears clean, and water observed inside. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A.

0852 One additional worker is suiting up to enter the Level 3 containment.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 1/11/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/11/2022 |
|---|-------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0900 Level 2: Four workers are loading out ACM bags and wraps of demo debris. 2 workers on scaffolding in Room 283 hanging poly sheeting prepping area for fireproofing removal.

945 One worker off site for the day. Corey advises PBS that workers on level 3 are finishing up on punch list items and bagging floor grills. PBS will continue visual after lunch in floor plenum.

1030-1115 Workers break for lunch and return to work.

1115 Level 3: Two workers are using ladders and scaffolding to cover sprinkler heads with latex gloves to protect them from the encapsulation application process. 2 workers are cleaning and wrapping the circular air vent grills in the floor. 4 workers in the plenum crawl space continue with HEPA vacuuming and wet wiping to clean and remove dust.

1200 PBS inspectors and 2 Dickson workers are conducting a visual inspection of the plenum crawl space.

1219 Level 2: Three workers loading out remaining ACM bagged demolition debris. One worker misting the air with water using an airless sprayer. 3 workers are performing gypsum wallboard wall demolition in Room O275 using hand tools. 2 workers are prepping Room O283 for fireproofing removal by putting poly sheeting on the South wall using scaffolding.

1240 PBS inspecting the north three grid sections on the east side of the floor plenum. Floor lead and one worker with PBS to touch up areas as needed.

1330 PBS exits the Level 3 containment. The floor plenum area looked at today is satisfactory. PBS will visual the remaining floor plenum area tomorrow.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS leaving site. Doors locked Corey and MM still on site will shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith

Date: 1/11/22



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|--|---|--|--|------------------------|--------------------|-----|
| PBS Site Observer(s): Claire Tsai, Toan Nguyen, Gregg Middaugh | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 1/ | | | /12/22 | |
| | | | | Page 1 of 2 | Time | 0700 a | am |
| Contractor on Site Person | nel: | | | | | | |
| Project Manager | Project Manager Yes No Supervisor Yes No | | | Summary Phase Status: Level 1: No work occurring. Level 2: GWB | | | |
| Workers | /orkers Yes No Name: Corey Foust | | | Demolition, begin fireproofing removal. Level 3: Continued | | | |
| How Many? + 24 | | | final cleaning. PBS visual inspection continues. | | | | |
| Air Monitoring Personnel | on site: PBS/Dicksor | า | <u>_</u> | Other Personnel on Site | e: MacDonald Miller (N | / М) | |
| WORK DESCRIPTION: : L | | | | ard demolition, begin firep | roofing removal. Leve | l 3: Continued fir | nal |
| cleaning throughout level WORKER PROTECTION: | | | - | | | | |

OBSERVATIONS:

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0730 One worker is inside the forklift on standby by as worker(s) load out ACM waste through the skybridge. PBS is calibrating pumps to collect air samples at various locations on site.

0800 Level 3: One worker is loading ACM waste bags down to the 2nd floor skybridge.

3 workers are on top of ladders and scaffold, using water and rags to wipe pipes above the decon enclosure.

1 worker is using rags and a pick tool, to detail clean pipes at the removed server floor. 4 workers are in the plenum crawlspace using wet wiping and HEPA vacuums to remove any settled dust. Total of 7 workers observer this level.

0845 Level 2: One worker with a water hose wetting walls and debris. 2 workers are using a Sawzall and HEPA vacuum to make cuts into the wall while controlling dust. 4 workers using pry tools and airless sprayer to keep mitigate suspended dust as they remove wall studs. 1 worker is bagging demolition debris. There is a total of 12 workers observed on the 2nd floor.

0900 One worker (forklift spotter) outside containment housekeeping grounds, emptying garbage cans. PBS project manager Gregg M on site.

1008 One worker on Level 3 with a tall ladder protecting sprinkler heads with rubber gloves used as covers during encapsulation. One worker on Level 3 is cleaning tools and equipment to be loaded out and used in other work areas.

1000-1130 PBS continue visual inspection on Level 3 in remaining floor plenum areas.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | M |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure T Sai

Date: 1/12/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/12/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1030-1115 Workers break for lunch and return to work.

1140 PBS provide Corey with punch list of items from PBS visual to complete prior to encapsulating. PBS will walk through to confirm items have been completed.

1250 Level 2: Four workers with scraping tools are on scaffolding working on removing fireproofing. Water observed in use for abatement and dust control. A shower set up has been constructed for when the workers leave the fire proofing abatement area. 7 workers are using water and various tools to demolish walls, wall studs, and ceiling panels. They are also pulling out batting insulation from the walls. All demolition debris are bagged and taped.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1600 PBS leaving site. MM still on site will shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Will Tsu.

Name: Claire Tsai

Date: 1/12/22



| Asbestos Contractor: Dickson | | Project Name: Olympic South Abatement & Repairs | | | |
|--|--|--|--------------------------|--|--|
| PBS Site Observer(s): Mike Smith, Toan Nguyen, Ferman Fletcher | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | Date: 1/13/22 | | |
| | | Page 1 of 2 | Time 0630 am | | |
| Contractor on Site Persor | nnel: | | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: Level 1: No | work occurring. Level 2: | | |
| Workers Yes No Name: Corey Foust | | Demolition and bagging GWB. Level 3: PBS inspect and Dickson | | | |
| How Many? +23 | | encapsulation | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | Other Personnel on Site: MacDona | ald Miller (MM) | | |

WORK DESCRIPTION: Level 1: No work occurring. Level 2: Continued gypsum wallboard demolition – bag and stage demolished materials. Level 3: Final punch-list inspection followed by Dickson encapsulation.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0630 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0830 Dickson workers outside containment are loading ACM bags/wraps from level 2 into the forklift bin (via the Level 2 skybridge) to be transported to the waste container in Parking Lot A.

Level 2: Ten workers at the loadout near the skybridge. This is Dickson's new staging area to enter and exit the 2nd floor work area.

Level 3: Four workers are dismantling poly-sheet walls and drop sheet in the work area and the loadout/decon chamber.

Corey F advises that Level 3 is nearly ready for a clearance inspection. Go over punch list with Corey to assure that all items identified yesterday have been addressed.

0910 Level 3: All floor grills are wrapped in poly sheeting. PBS observers are conducting one final visual inspection to ensure the poly-sheet walls do not have any gaps before encapsulation. PBS is also confirming that the punch-list items have been addressed

1015 Level 2: Two workers are demolishing wall framing in the southeast corner of the level. 1 worker is filling and staging ACM bags filled with demo debris at the south end of the floor. 3 more workers are performing demolition of walls and wall framing using Sawzalls on the west side of the north south corridor.

| BUILDING/AREA/LOCATION |
|----------------------------|
| Olympic South Levels 1/2/3 |
| |
| |
| |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 1/13/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/13/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Level 3: PBS finished with final visual inspection. Area satisfactory. Dickson has the "go-ahead" to start encapsulation of the work area. 5 workers are on the level. Workers are going to begin the encapsulation after lunch. Workers are doing one final walk through, loading out all equipment & materials, before heading to lunch.

1030 PBS conducts a staff job site safety meeting - items discussed include: Pinch points and sharp metal edges (wear gloves), water hazards (electrical and slipping), holes in floors throughout work areas, high winds on roof, cleaning respirators, and PBS covid protocols.

1040 – 1130 Dickson safety rep Grant Baker on site – Safety inspection of job site except for inside of containments.

1030-1115 Workers break for lunch and return to work.

1130 Level 3: Eight workers on the level. 4 workers are lowering the airless sprayer hose into the plenum crawlspace. 4 workers are in the plenum crawlspace applying encapsulation, they are divided into 2 teams, each team has a spotter and sprayer. Starting for the furthest point of the hatch opening and working back. PBS is in the area to observe encapsulation process.

1215 Level 3: Four workers above the plenum crawlspace. 3 workers are doing general housekeeping, wiping HEPA vacuums, vacuuming the concrete floor, ensuring wires and hoses are not tangled as the other are applying encapsulation. 1 worker is mixing encapsulate solution and exchanging a new bucket whenever the bucket (in use) of encapsulate is almost empty.

1300 Level 2: Two workers demolishing wall framing in the southeast corner of the level. One worker is staging ACM bags filled with demo debris at the north end of the floor. 3 more workers are performing demolition of walls and wall framing using Sawzalls on the west side of the north south corridor

Level 3: Dickson continue with applying encapsulation, workers have encapsulated approximately a third for the floor plenum space. Encapsulation will continue tomorrow.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS leaving site. Corey F and MM still on site will shut off generator.

1400 - 1500 PBS attends weekly site construction meeting.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith

Date: 1/13/22



| PBS Site Observer(s): Claire Tsai | , Ferma | n Fletc | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|--|---------|-----------------|---|-------|---|-------------------|----------------------|--------------|------------|
| | PBS Site Observer(s): Claire Tsai, Ferman Fletcher | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | Date: 1/14/22 | | | |
| | | | | | | Page 1 | of 2 | Time | 0700 | am |
| Contractor on Site Personnel: | | | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: Level 1: Inventory. Level 2: GWB demo and | | | | |
| Workers | Yes | No | Name: Corey | / Foust | | Fireproofing removal. Level 3: Continue with encapsulation main | | | | |
| How Many? + 24 | | | | Floor and sub-floor plenum. | | | | | | |
| Air Monitoring Personnel on site | e: PBS/D | icksor | 1 | | | Other Personnel on Site: MacDonald Miller (MM) | | | | |
| WORK DESCRIPTION: Level 1: Removal of fireproofing. Level 3 | : Encaps | sulatio | n | | | l gypsum v | vallboard demolit | tion – bag and stage | demolished r | naterials. |
| WORKER PROTECTION: 1/2 face | e respira | tor, Ty | vek, safety boo | ots, har | d hat | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

OBSERVATIONS

0700 PBS arrives on site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0830 Level 2: Two workers wrapping demolished gypsum wallboard on south end of floor. 4 workers are demolishing gypsum wallboard walls on the east end of the hall. 2 workers are cutting down ductwork in the hallway. 3 workers are removing fireproofing on scaffolding in Room 284.

0930 PBS conducting inventory activities in Room 261. Process includes sorting contents for cleaning or disposal. 1 worker assisting PBS.

1030 MM (Rick) in level 2 tracking demo progress.

1030-1115 Workers break for lunch and return to work.

1100-1150 PBS continues inventory documentation on level 1 hallway and room 185

1150 Level 2: Fifteen workers observed in containment. 3 workers are in Room 284 removing fire proofing - 2 workers are on top of scaffolding and 1 worker is on the ground managing water and bagging debris. 4 workers are on the east half of main floor removing ceiling framing, bagging/wrapping debris. 2 workers are in the practice rooms precutting gypsum wallboard (1 with saw and 1 with HEPA vacuum) 3 workers are in the southwest area bagging precut gypsum wallboard and insulation loading into tip bin. 2 workers are in the Art Gallery housekeeping load out area. One worker with tip bin transporting waste bags to load out area.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| _ | 0. |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai

Date: 1/14/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/14/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1323 Level 3: Two workers are encapsulating the corrugated ceiling while 4 workers are spraying encapsulation fluid on items on the sub floor

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 Corey F departs site – doors are locked.

1500 PBS departs the site – Generator off.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Clubble T Substitution Name: Claire Tsai



| Asbestos Contractor: NA | | | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|-------------------------------|------------------------|----------|------------------|-----------|----------|---|---|-----------------------|-----------|----------|
| PBS Site Observer(s): Clai | re Tsai, Ferma | n Fleto | cher, Kaitlin So | ukup | | | oject No.: 40535.4 oject No.: 2021-1 | | Date: 1, | /17/2022 |
| | | | | | | Page | 1 of 1 | Time | 0900 | am |
| Contractor on Site Person | nel: | | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summ | ary Phase Status: | PBS continue invento | ry effort | |
| Workers | Yes | No | Name: NA | | | _ | | | | |
| How Many? | | | | | | | | | | |
| Air Monitoring Personnel | on site: NA | | | | | Other | Personnel on Site | : MacDonald Miller (N | 1M) | |
| WORK DESCRIPTION: PE | 3S continue in | ventor | y process of Le | evel 1 co | ontents. | | | | | |
| WORKER PROTECTION: | ½ face respira | ator, Ty | vek, safety bo | ots, har | d hat | | | | | |
| METHOD OF REMOVAL: | NA | | | | | | | | | |
| OBSERVATIONS: | | | | | | | | | | |
| 1900 PBS on site. No a | abatement ¹ | work | occurring to | oday d | due to | union ho | oliday. | | | |

Rick (MM) stops by site to check site security. PBS will secure site before leaving for the day.

PBS visually inspect contents previously cleaned by Dickson workers. Contents have been stored in sealed plastic pouches to prevent dust settling on contents until PBS visual inspection and confirmation microvac sampling.

PBS visually inspect contents from Rooms 171 and 172 for visible dust. Items passed visual inspection.

1200-1230 PBS take lunch break.

PBS collect microvac samples from Room 171 contents and move items to connex 5 for storage. Items remain in their sealed pouches in connex. Room 172 items moved back in building will be samples at a later date.

1430 PBS lock doors and shut off generator before leaving site.

| ITEMS OF CONCERN: None | |
|--|------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| | Olympic South Level 1 |
| NA | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Chille Tsai Name: Claire Tsai Date 1/17/2022



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|--|----------------------|------------------|---|-----------------------|------------------|----------|--|
| PBS Site Observer(s): Mike Smith, Toan Nguyen, Ferman Fletcher | | | | ect No.: 40535.4 ect No.: 2021-19 | | Date: 1/ | 18/22 | |
| | | | Page 1 | of 2 | Time | 0700 | am | |
| Contractor on Site Perso | nnel: | | | | | | | |
| Project Manager | Yes No Sup | ervisor Yes I | lo Summar | y Phase Status: I | Level 1: No work occu | urring. Level 2 | | |
| Workers | Yes No Nar | ne: Corey Foust | Continue | ed GWB demo a | nd fireproofing remo | oval. Level 3: C | ontinued | |
| How Many? + 22 | | | | encapsulation | | | | |
| Air Monitoring Personne | el on site: PBS/Dickson | | Other Pe | Other Personnel on Site: MacDonald Miller (MM) | | | | |
| | Level 1: No work occurring. | Level 2: Continued | gypsum wallboard | d demolition/ba | gging and loadout. R | Removal of fire | proofing | |
| | Lavad Or Finish an assessment | | | | | | | |
| | Level 3: Finish encapsulatin | g area. | | | | | | |
| With a pressure washer. | Level 3: Finish encapsulatin I: ½ face respirator, Tyvek, s | | at | | | | | |
| With a pressure washer. | • | | ət | | | | | |

OBSERVATIONS:

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0715 Dickson is using their Forklift in parking lot A to transfer waste bags to the storage/disposal container. 1 operator and one spotter. Two workers in stairwell outside of containment loading out waste bags via skybridge to forklift.

0730 PBS setting up daily air sampling.

0820 Level 2: Four workers are loading out ACM bags and 4 workers are loading demolished gypsum wallboard into ACM bags. 3 workers are removing the fireproofing (from beams) in Room 284 using a pressure washer. The water being used for removal is absorbing into the fireproofing debris and not migrating to other areas.

Level 3: Five workers observed on the level. 1 worker is in the plenum crawlspace continuing to encapsulate hard to get spots and 4 workers are on the main floor applying encapsulation.

1030-1115 Workers break for lunch and return to work.

1045 Dickson fuel truck on site, generators and heater are refilled.

1115 Level 3: There are 5 workers continuing the encapsulation process of the above the plenum crawlspace. They are using 3 airless sprayers - each at a different end of the space: south, west, and north. There are 2 spotters helping manage hoses.

| ITEMS OF CONCERN: None | |
|---|--------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 2/3 | Olympic South Levels 2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 1/18/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/18/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1145 Level 2: Eight workers continue with gypsum wallboard and HVAC demolition throughout Rooms 285 & 292. Workers are bagging/wrapping demolished materials as it occurs. 2 workers with high pressure power washer removing the fireproofing on beams inside of Room O284 with 1 worker on the ground moving abated fireproofing into individual piles on the floor. 13 negative air machines are running on this level being exhausted to the exterior.

Seven negative air machines are running on the first level being exhausted to the exterior.

1300 Four outside workers are suiting-up to join the crew on Level 2

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS leaving site. Corey F and MM still on site will shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date: 1/18/22



| Asbestos Contractor: Di | ckson | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|----------------------|-------------------|---|--|------------------------|------------------|-----------|
| PBS Site Observer(s): Cla Middaugh | ire Tsai, Toan Nguye | n, Ferman Fletche | er, Gregg | PBS Project No.: 40535 DES Project No.: 2021- | | Date: 1/ | /19/22 |
| | | | | Page 1 of 2 | Time | 0700 | am |
| Contractor on Site Persor | nnel: | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status | : Level 1: No work occ | urring. Level 2 | : |
| Workers | Yes No | Name: Randy S | Scott | Continued GWB demo | and fireproofing remo | oval. Level 3: C | Continued |
| How Many? + 19 | | | | encapsulation | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Other Personnel on Site: MacDonald Miller (MM) | | | | |

WORK DESCRIPTION: Level 1: No work occurring. Level 2: Continued gypsum wallboard demolition/bagging and loadout. Removal of fireproofing With a pressure washer. Level 3: Finish encapsulating area.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0715 PBS setting up air sampling throughout the site.

0900-1030 PBS collects microvac samples from Room 172 contents visually inspected on Monday 1/17

0915 Level 3: Three workers observed. 1 worker in floor plenum encapsulating any missed areas. 2 workers above floor visually inspecting areas throughout and applying encapsulation to any areas missed. Encapsulation will be done by lunch break today. PBS will visual encapsulant to make sure full coverage is visible.

0943 Level 2: Three workers are demolishing the walls and ceilings of the Men's and Women's Restrooms. 1 worker in Room O275 is wrapping demolished debris in poly sheeting. 4 workers are in the music department office (Room O285) removing duct work, ceiling, and walls. There are 3 workers in Room O283, 2 of which are assembling scaffolds. Dickson has completed the fireproofing removal in Room O284 and 2 workers are bagging up removed material into ACM bags.

1000 Forklift operator transporting supplies from parking lot connex to ECE drive through area.

1030-1115 Workers break for lunch and return to work.

1130 PBS Project Manager Gregg Middaugh on site walks through level 2. No issues noted.

1245 PBS collects air samples set up around site.

| ITEMS OF CONCERN: None | |
|--|--------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 2/3 | Olympic South Levels 2/3 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Mull Table
Name: Claire Tsai

Date: 1/19/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/19/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1330 Gregg Middaugh departs the site. PBS walk through level 3 to visual encapsulant. PBS note areas in need of white encapsulant for visibility. Clear encapsulant was used in certain areas due to short supply of white encapsulant. Dickson will get a white pigment to mix into clear encapsulant. Pigment is needed for visual confirmation areas have been encapsulated.

1340 Level 2: Three workers in the Men's and Women's Restrooms bagging fiberglass batting insulation and wallboard. 2 workers in Room O264 are bagging and wetting the inside of ACM waste bags. 2 workers in music department offices are using Sawzalls dismantling bulk wall and ceiling pieces. 1 worker is coiling hoses and cords to keep space tidy. There is 1 worker using a squeegee to keep fireproofing in Rooms 283 & 284.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 PBS transport Room 172 contents to connex in parking lot for storage. Items remain sealed in plastic.

1500 PBS off site. Doors locked. Dan on site will shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

The individual signing certifies that the above

information is correct and accurate.

Signature: WWW T SW .
Name: Claire Tsai

Date: 1/19/22



| Asbestos Contractor: Dickson | Project Name: Olympic South Abatement & Repairs | | | | |
|--|--|--|--|--|--|
| PBS Site Observer(s): Claire Tsai, Toan Nguyen, Ferman Fletcher | PBS Project No.: 40535.488 DES Project No.: 2021-192 | Date: 1/20/22 | | | |
| | Page 1 of 2 Time | 0700 am | | | |
| Contractor on Site Personnel: | | | | | |
| Project Manager Yes No Supervisor Yes No | Summary Phase Status: Level 1: No work | • | | | |
| Workers Yes No Name: Corey Foust | Continued GWB demo and fireproofing r | removal. Level 3: Complete | | | |
| How Many? + 19 | encapsulation | | | | |
| Air Monitoring Personnel on site: PBS/Dickson | Other Personnel on Site: MacDonald Mill | er (MM) | | | |
| WORK DESCRIPTION: Level 1: No work occurring. Level 2: Continued gypsu | um wallboard demolition/bagging and loado | ut. Removal of fireproofing | | | |
| with a pressure washer. Level 3: Finish encapsulating area. | | | | | |
| WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat | | _ | | | |
| | | | | | |
| METHOD OF REMOVAL: wet methods manual and saws | | | | | |
| | | | | | |
| OBSERVATIONS: | | | | | |
| 7700 PBS arrives to the site. Dickson workers have gone to ass | igned tasks. All following notes will | be in reference to the | | | |
| Dlympic South Building. PBS conducting air monitoring inside | and outside of work areas including | HEPA exhausted air | | | |
| | <u> </u> | | | | |
| Dickson is loading out ACM bags via the skybridge loadout. 2 v | workers are on the skybridge loadin | g the bags into the | | | |
| orklift metal bin. The forklift operator and a spotter then trans | sport the bags to the storage contain | ner located in Parking | | | |
| · | port the bugs to the storage contain | ier rocatea iii r arkii ig | | | |
| ot A. | | | | | |
| 0730 PBS setting up daily air sampling. | | | | | |
| 2020 Level 2: Circumstance are in the level and automorphism deviled because | | h h - f 2 - + h | | | |
| 1830 Level 2: Six workers are in the load out area, double bagg | Jing and using duct tape to seal the | bags before 2 other | | | |
| vorkers hoist the ACM waste bags into the bin attached to the | forklift through the skybridge wind | ow. The bulk removal c | | | |
| ireproofing on structural beams in Room O284 is done. There | | | | | |
| | | | | | |
| ıll traces of fireproofing. 3 workers are in Room O283, they are | e currently manually removing the fi | reproofing, the pressure | | | |
| vasher is malfunctioning. 1 worker is putting up red danger ta | pe around the men's and Women's | restrooms since | | | |
| olumbing is still live. 2 other workers are moving equipment ar | • | | | | |
| building is still live. 2 other workers are moving equipment ar | id materials to a new section of the | ZIIU IIOOI WOIK area. | | | |
| 1900 Level 3: Two workers are continuing with encapsulation a | above the floor locations on this leve | el in areas pointed out | | | |
| by PBS yesterday. | | · | | | |
| y 1 Do yesterday. | | | | | |
| | | | | | |
| 1930 Level 2: Seven workers at the load out area, double bagg | ing and using duct tape to seal the | bags before being | | | |
| | | | | | |
| noisted out by 2 other workers on the other side. 3 workers are | e in Room O283 - 2 workers are usir | ng a pressure washer to | | | |
| noisted out by 2 other workers on the other side. 3 workers are | e in Room O283 - 2 workers are usir | ng a pressure washer to | | | |
| oisted out by 2 other workers on the other side. 3 workers are emove bulk fireproofing (pressure washer working again) on s | e in Room O283 - 2 workers are usin structural beams. 2 workers with a Sa | ng a pressure washer to awzall and HEPA | | | |
| D930 Level 2: Seven workers at the load out area, double bagg noisted out by 2 other workers on the other side. 3 workers are remove bulk fireproofing (pressure washer working again) on sacuum precutting the wall adjacent to Room O266 for demo. ITEMS OF CONCERN: None | e in Room O283 - 2 workers are usin structural beams. 2 workers with a Sa | ng a pressure washer to awzall and HEPA | | | |
| noisted out by 2 other workers on the other side. 3 workers are emove bulk fireproofing (pressure washer working again) on stractum precutting the wall adjacent to Room O266 for demo. | e in Room O283 - 2 workers are usin structural beams. 2 workers with a Sa | ng a pressure washer to awzall and HEPA | | | |
| noisted out by 2 other workers on the other side. 3 workers are emove bulk fireproofing (pressure washer working again) on stractum precutting the wall adjacent to Room O266 for demo. | e in Room O283 - 2 workers are usin structural beams. 2 workers with a Sa | ng a pressure washer to awzall and HEPA | | | |
| oisted out by 2 other workers on the other side. 3 workers are emove bulk fireproofing (pressure washer working again) on s acuum precutting the wall adjacent to Room O266 for demo. ITEMS OF CONCERN: None | e in Room O283 - 2 workers are usin structural beams. 2 workers with a Sa | ng a pressure washer to awzall and HEPA | | | |

The individual signing certifies that the above information is correct and accurate.

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 2/3

1 full 40 CY container (ACM bags and wraps) removed from site today

Signature: Claure Tsui

Name: Claire Tsai

Date: 1/20/22

BUILDING/AREA/LOCATION

Olympic South Levels 2/3



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/20/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1000 PBS, Corey, Dan, Rick in level 1/2 containment. PBS collect bulk sample of elevator hydronic oil for PCB analysis.

1030-1115 Workers break for lunch and return to work.

1155 Level 2: Two workers are in Room O283, using pry bars and wet methods to scrape and remove hardened fireproofing on structural beams. 1 worker is in Room O283 using squeegee to clean up fallen fireproofing. 4 workers are cleaning up the loadout area with brooms and exchanging the drop sheeting for a new clean one. 2 workers are precutting the wall inside of O266 (art storage room) for demo. 1 worker in skybridge continues loading ACM bags into forklift bin.

Level 3: Two workers are finishing up the encapsulation process. PBS in work area confirming surfaces pointed out have been encapsulated.

1250 Two workers from level 2 exit containment and assist with load out of materials from Level 3 so area is clear of equipment for PBS air clearance tomorrow.

1400 Level 3: Two workers continue loading out equipment and materials.

1400-1500 Weekly construction meeting with project team.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS leaving site. Corey F and MM still on site will shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Mule Todal
Name: Claire Tsai

The individual signing certifies that the above information is correct and accurate.

Date: 1/20/22



| Asbestos Contractor: Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|------------------------------|------------------|--------|------------------|----------|---|-----------------------|--------------------|------|--|
| PBS Site Observer(s): Mil | ke Smith, Toan I | Nguy | en, Ferman Fletc | her | PBS Project No.: 40535.4 DES Project No.: 2021-1 | | Date: 1/21 | 1/22 | |
| | | | | | Page 1 of 2 | Time | 0700 | am | |
| Contractor on Site Person | nnel: | | | | • | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | Level 1: No work occ | urring. Level 2: | | |
| Workers | Yes | No | Name: Corey l | Foust | Continued GWB demo a | and fireproofing remo | oval. Level 3: PBS | S | |
| How Many? + 19 | | | | | collect AHERA clearance | sampling | | | |
| Air Monitoring Personne | on site: PBS/Di | icksor | 1 | <u> </u> | Other Personnel on Site | : MacDonald Miller (N | MM) | | |

WORK DESCRIPTION: Level 1: No work occurring. Level 2: Continued gypsum wallboard demolition/bagging and loadout. Removal of fireproofing with a pressure washer. Level 3: PBS collect AHERA clearance samples.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat.

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson is loading out ACM bags via the skybridge loadout. 2 workers are on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A.

Level 3: Four workers loading out the last remaining equipment and materials and uncovering finishes protected from the encapsulation with poly sheeting (windows, floor grills, sprinkler heads) prior to PBS initiation of aggressive air clearance sampling in the space.

0730 PBS setting up daily air sampling.

0800 Level 2: Workers continue with gypsum wallboard demolition, demolished materials are bagged or wrapped as work occurs. Fireproofing removal continues in Room 0283 from scaffolding. A pressure washer is being utilized for this removal.

0945 Level 3: Four workers are finished with loading out the remaining equipment and materials. PBS is entering the containment to set up pumps and begin AHERA air clearance sampling.

1030-1115 Workers break for lunch and return to work.

| ITEMS OF CONCERN: None | |
|---|--------------------------|
| CHANGES IN SCOPE: None | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 2/3 | Olympic South Levels 2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 1/21/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/21/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1050 Level 3: PBS has completed setting up clearance sampling and started the interior pumps – 5 above floor and 5 below floor.

1110 PBS sets up and starts exterior clearance samples at Level 3 and roof locations.

1250 Level 3: PBS collects interior clearance samples followed by exterior clearance samples.

1300 Level 2: Workers continue with gypsum wallboard and HVAC demolition, demolished materials are bagged or wrapped as work occurs. Fireproofing removal continues in Room 0283 from scaffolding. A pressure washer is being utilized for this removal.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS leaving site, clearance samples will be transported to Lab/Cor today. Corey F and MM still on site will lock doors and shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date: 1/21/22



| Asbestos Contractor: Dickson | | Project Name: Olympic South Abatement & Repairs | | | | | |
|---|--------------|---|---|---|----------------|------|----|
| PBS Site Observer(s): Claire Tsai, Toan Nguyen, Ferman Fletcher | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 1/24/22 | | | |
| | | | | Page 1 of 2 | Time: | 0700 | am |
| Contractor on Site Persor | nnel: | | _ | | | | |
| Project Manager | Yes N | No Supervisor Yes No Summary Phase Status: Level 1: GWB scoring. Level 2: | | . Level 2: | | | |
| Workers | Yes N | 'es No Name: Corey Foust | | Continued GWB, HVAC demo and fireproofing removal. Level 3: PBS | | | |
| How Many? + 22 | | | | collect clearance surface | e dust samples | | |
| Air Monitoring Personnel on site: PBS/Dickson | | Other Personnel on Site: MacDonald Miller (MM) | | | | | |

WORK DESCRIPTION: Level 1: Scoring GWB walls. Level 2: Continued gypsum wallboard and HVAC demolition/bagging and loadout. Removal of fireproofing with a pressure washer. Level 3: Awaiting results for AHERA clearance samples. PBS collect clearance surface dust samples

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson is loading out ACM bags via the skybridge loadout. The forklift operator and a spotter transport waste from skybridge window to the waste container located in Parking Lot A.

0730 PBS setting up daily air sampling.

0815 Level 2: Seven workers bagging demolition waste and sealing ACM bags with duct tape at the 2nd floor load out. 1 worker is standing on the other side of the load out carry the bags to the forklift, waiting at the skybridge opening. 2 workers are using a Sawzall to cut and demolish air ducts at Room O280. 4 other workers are moving the HVAC debris to another area to be cut down to smaller pieces and wrapped in poly sheeting. 1 worker is in Room O284 using hand tools for detail cleaning of the fireproofing on structural beams. 2 workers are in Room O283 using scrape and pry tools, along with power washer to remove bulk fireproofing. PBS observed 19 workers inside/nearby Level 2 work area.

0840 Forklift operator and spotter in parking lot A loading ACM bags into waste trailer.

0930 PBS communicate to Corey and MM large trout painting in stairwell has been approved for disposal. PBS will need documentation of proper disposal involving breaking down of artwork and separating into multiple waste bags for disposal.

0950 Level 1: Two workers are using a Sawzall and HEPA vacuum to precut gypsum wallboard for demolition near Restroom 165.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Level 2 | Olympic South Levels 1 & 2 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | 0 |

The individual signing certifies that the above information is correct and accurate.

Signature: WWW TSW.

Name: Claire Tsai Date: 1/24/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/24/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1000 Level 2: Two workers are using a Sawzall and vacuum to precut the wall by the offices near Room O261 to prep for demo. 1 worker is loading metal wall studs into cart to be cut into smaller pieces before wrapping with poly sheeting for disposal. 2 workers are cutting metal wall studs into 4ft pieces and wrapping in poly sheeting. 4 workers are using wire cutters and other hand tools to remove metal braces that was used to hold air ducts. 2 workers in Room O283 are using a power washer for bulk removal of fireproofing, 1 is on the ground supervising. 2 workers on mobile scaffolding are using hand tools for manual detail cleaning of the structural beams in Room O284.

1030-1115 Workers break for lunch and return to work.

1050 Dickson fuel truck on site to fill generators.

1140-1230 PBS enter level 2 containment with Corey, Dan and MM electrician to walk perimeter walls for conduit that needs to be removed. PBS and MM mark up drawings as Corey marks walls with spray paint to designate demolition or to remain in place.

1200 Level 1: Two workers with a Sawzall and HEPA vacuum precut wallboard in Room O164 for demo.

Level 2: Two workers with a Sawzall and HEPA vacuum precut wallboard in offices across from Room O161 for demo. 1 worker is using water to wet debris and mitigate suspended dust. 4 workers are cutting poly sheeting to wrap demolition debris and using duct tape to seal. 4 workers are using hand tools to pry and remove metal wall studs and air ducts overhead by Room O280. 2 workers are bagging fireproofing waste with shovels. 2 workers in Room O283 are using hand tools and water hoses to detail clean structural beams.

1300 Level 1: Two workers with a Sawzall and HEPA vacuum precutting wallboard in Room 166A for demo.

Level 2: Four workers are wrapping demolition debris in poly sheeting. 2 workers are using a Sawzall to cut and disassemble air ducts overhead. 3 other workers are breaking down wallboard and ceiling tiles into smaller pieces with hand tools. 2 workers are in Room O283 using power washer for bulk removal of fireproofing, 1 is on the ground supervising. 2 workers are using hand tools for manual detail cleaning of the structural beams in Room O284.

1350 PBS observed Le May truck on site hauling filled ACM dumpster away.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS leaving site, Corey F and MM still on site will lock doors and shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Date: 1/24/22



| Asbestos Contractor: Di | ckson | | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|--|----|--|--|---|-------------------------|------------|----|
| PBS Site Observer(s): Mil | PBS Site Observer(s): Mike Smith, Toan Nguyen, Ferman Fletcher | | | PBS Project No.: 40535 DES Project No.: 2021- | Date: 1/25/22 | | | |
| | | | | | Page 1 of | Time | 0700 | am |
| Contractor on Site Person | nnel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: Level 1: Scoring GWB for demo. Level 2: | | | |
| Workers | Yes | No | No Name: Corey Foust | | Continued fireproofing removal and GWB demolition. | | | |
| How Many? 23 + | | | | | Level 3 area isolated fo | or clearance passes air | clearance. | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Other Personnel on Site: MacDonald Miller (MM) | | | | | |

WORK DESCRIPTION: Level 1: Continued scoring of gypsum wallboard for demolition throughout the area. Level 2: Continued fireproofing and gypsum wallboard, metal wall framing, and fiberglass insulation demolition throughout the area. Level 3: No work occurring. WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0700 PBS arrive to the site. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0730 PBS setting up daily PCM air samplings.

0800 PBS observer enter Level 1 and 2 containment.

0815 Level 2: Four workers are near 261 using hammers, Sawzall, and pry tools to remove gypsum wallboard and insulation. 1 worker using Sawzall to cut HVAC ducts, while 2 other workers are moving HVAC debris to a clear area at O280 to cut down to smaller pieces and wrap in poly-sheeting for disposal.

0900 Level 2: Two workers are on top of scaffoldings in O283 using pry tools and power washer to remove bulk fireproofing on structural beams. 1 worker is on the ground supervising for both O283 and O284. 2 workers are on top of scaffolding and attached to fall protection equipment in O284. Both workers are using hand tools and water for detail cleaning of the structural beams.

0930 PBS observed nineteen workers inside Level 1 and Level 2 work areas. 4 workers are bagging demolition debris near O261, batts insulation, ceiling panels and wallboards. 2 workers are precutting walls near 266. 2 workers are in O283 using scrape tools to manually remove fire proofing. 2 workers in O284 detail clean surfaces with residual fireproofing. 6 workers are wrapping ACM demolition waste in poly sheet and sealing with duct tape. 2 workers using Sawzall to remove conduits and metal braces overhead.

| ITEMS OF CONCERN: None | |
|--|--------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2 | Olympic South Levels 1/2 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Date 1/25/2022 Name: Mike Smith



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/25/2022 |
|---|-------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1000 Level 2: Corey enters the containment. 2 workers near O280 wrapping conduits in poly sheeting. 2 workers near O275 and O270 wrapping HVAC air ducts in poly sheeting for disposal. 2 workers near O264 are precutting the wall for demolition with Sawzall and HEPA vacuum. 2 workers are in O283 using scrape tools and power washer for bulk removal of fireproofing. 2 workers are in O284 using hand tools for detail cleaning of surfaces with residual fireproofing.

1030-1115 Workers break for lunch and return to work.

1140 PBS observer enter Level 1 and 2 containments. Walls have been precut at rooms O164, 165 and 166 on Level 1.

1145 Level 2: Thirteen workers performing demolition of walls and ceilings throughout using Sawzall to cut, then immediately cut the debris into smaller pieces, then wrap in poly-sheeting. 2 workers are detail cleaning in Room O284 with hand tools, rags, and water. 2 workers are using pressure washer on scaffolding in Room 284, while 1 worker is supervising and managing fireproofing and water on ground.

1215 PBS observed 75% of all wall-framing and ceiling grid has been removed on Level 2.

1245 Level 2: Two workers are demolishing wall framing at the northeast corner using a Sawzall, pry tool, and ladder. 1 worker performing demolition around the northwest corner using hammer and pry tool. 1 worker is exchanging old prefilters for new ones on HEPA negative air machines at Level 1 and 2. Two workers are scoring the east perimeter wall using a Sawzall and a HEPA vacuum. 4 workers are wrapping ductwork with poly-sheeting and duct tape. 1 worker is pressure washing fireproofing in room O283, 1 worker is sweeping the bulk fireproofing debris, and 2 workers are detail cleaning the corrugated pan decking in room O284 with hand tools and water.

1300 Worker that was changing HEPA filters is now misting the demo area with water.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith Date 1/25/2022



| Asbestos Contractor: Die | ckson | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|--|--------------------------|--|---|------|------|-------|
| PBS Site Observer(s): Cla Middaugh | PBS Site Observer(s): Claire Tsai, Toan Nguyen, Ferman Fletcher, Gregg Middaugh | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | 26/22 |
| | | | | Page 1 of 2 | Time | 0700 | am |
| Contractor on Site Persor | nnel: | | | | | | |
| Project Manager | Yes N | o Supervisor | Yes No | Summary Phase Status: Level 1: Scoring GWB for demo. Level 2: | | | |
| Workers | Yes N | Yes No Name: Corey Foust | | Continued fireproofing removal and GWB demolition. | | | |
| How Many? +21 | | | | Level 3: No work occurr | ing | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Other Personnel on Site: MacDonald Miller (MM) | | | | |

WORK DESCRIPTION: Level 1: Continued scoring of gypsum wallboard for demolition throughout the area. Level 2: Continued fireproofing and gypsum wallboard, metal wall framing, and fiberglass insulation demolition throughout the area. Level 3: No work occurring.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat.

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson is loading out ACM bags via the skybridge loadout. 2 workers are on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A.

0715 PBS setting up daily PCM air samplings.

0830 Level 2: Six workers adding second bag to ACM bags with demolition debris and sealing with duct tape by the load out tunnel. Minimal demolition occurring, work currently focused on load out. 2 workers are by Room O264 bagging fiberglass batting insulation.

0900 Level 1: Two workers using a HEPA vacuum and a Sawzall to precut walls near Room O169 for demo. There are 6 negative air machines in operation on this level.

Level 2: Two workers are moving mobile scaffolding to target another section of the structural beams with residual fireproofing in Room 0283. 2 workers on scaffolding continue using rags and water to wipe structural beams and sprinkler pipes. 1 worker is on the ground for support. 14 negative air machines are running on this level.

1000 Level 2: Three workers are using pry bars to remove the precut walls and the fiberglass batting insulation by Room O280 and O286. 6 workers continue to load double bagged ACM waste though the loadout. 2 workers outside containment haul the ACM waste bags through the skybridge opening and into the forklift bin.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1 & 2 | Olympic South Levels 1 & 2 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claire Tsai Date: 1/26/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/26/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1030-1115 Workers break for lunch and return to work.

1200 Level 1: Two workers precutting gypsum wallboard for demolition.

Level 2: Eleven workers performing demolition. 5 workers working in Rooms 0283 and 0284 removing fireproofing. Bulk removal appears to be complete workers are detailing ceiling components.

PBS opens exploratory holes in east stairwell to assess extent of water intrusion. Corey and one worker assisting PBS in stairwell.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1500 PBS off site. Doors locked. Corey still on site will shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Clavice Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai

Date: 1/26/22



| Asbestos Contractor: Di | ckson | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---------------------------|--------------------------|--------|---|--------|--|-----------------------|---------------|---------------|--|
| PBS Site Observer(s): Cla | ire Tsai, Toan N | lguye | n, Ferman Fletcl | her | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | Date: 1/27/22 | |
| | | | | | Page 1 of 2 | Time | 0700 | am | |
| Contractor on Site Perso | nnel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | Level 1: Precut GWB. | Level 2: demo | lish GWB | |
| Workers | Yes No Name: Corey Foust | | and final clean fireproofing. Level 3: No work occurring. Surface d | | | rface dust | | | |
| How Many? +24 | | | | | Samples of area isolated | for clearance pass. | | | |
| Air Monitoring Personne | on site: PBS/Di | icksoı | า | | Other Personnel on Site | : MacDonald Miller (N | MM), PCI | | |

WORK DESCRIPTION: Level 1: Continued scoring of gypsum wallboard for demolition throughout the area. Level 2: Continued gypsum wallboard, demolition and final detail cleaning in Rooms 0283 & 0284. Level 3: No work occurring.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson is loading out ACM bags via the skybridge loadout. 2 workers are on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A.

0730 PBS setting up daily PCM air samplings.

0915 Level 1: Two workers precutting gypsum wallboard for demolition. One worker in Room 168 cleaning room detailing server floor components for manufacturer to look at on a later date.

Level 2: Twelve workers are demolishing perimeter gypsum wallboard walls using Sawzalls and HEPA vacuums. Wet methods are being used during the demolition. The workers are also bagging demolished materials into ACM bags and staging them for loading out. 6 workers continue to detail clean beams in Rooms 0283 and 0284. Electric grinders and hand tools are being used for the cleaning process. One worker assisting PBS with moving Room 261 contents to Room 168 for safe storage until items are approved for cleaning or disposal.

0957 PBS notices water dripping from the ceiling on the 1st floor that is in a similar location to where the bathroom piping is located on the 2nd floor. Dickson is notified and investigating. PBS collects samples of previously concealed materials uncovered during demolition activities to submit for analysis. Four samples collected of various materials (mastics, vapor barrier, debris).

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1 & 2 | Olympic South Levels 1 & 2 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai

Date: 1/27/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/27/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1030-1115 Workers break for lunch and return to work.

1130 Todd L on site.

1200 Level 1: Two workers continue precutting gypsum wallboard for demolition HEPA vacuums are being used during the precutting process.

Level 2: Twelve workers continue with demolition of perimeter gypsum wallboard walls using Sawzalls and HEPA vacuums. Wet methods are being used during the demolition. The workers are also bagging demolished materials into ACM bags and staging them for loading out. 6 workers continue to detail clean beams in Rooms 0283 and 0284. Electric grinders and hand tools are being for the cleaning process.

1300 PBS vacates the site to attend a staff meeting in the Seattle office. Dickson and MM remain on site and will secure site/building and shut-down generators.

1400-1500 Weekly construction meeting with project team.

Signature: Music Todal
Name: Claire Tsai

Date: 1/27/22



| Asbestos Contractor: Di | ckson | | | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|--|------------------------------------|----------------------|--|--|--|------|--------|--------|
| PBS Site Observer(s): Mil | PBS Site Observer(s): Mike Smith, Toan Nguyen, Ferman Fletcher | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | /28/22 | |
| | | | | | | Page 1 of 2 | Time | 0700 | am |
| Contractor on Site Persor | nnel: | | | | | | | | |
| Project Manager | Yes | No Supervisor Yes No | | | 0 | Summary Phase Status: Level 1: Precut gypsum wallboard walls. | | | |
| Workers | Yes | No | No Name: Corey Foust | | | Level 2: demolish gypsum wallboard and final clean fireproofing. | | | ofing. |
| How Many? + 21 | | | | | | Level 3: No work occur | ring | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | Other Personnel on Site: MacDonald Miller (MM) | | | | | |

WORK DESCRIPTION: Level 1: Continued precutting gypsum wallboard for demolition throughout the area. Level 2: Continued gypsum wallboard, demolition throughout, detail cleaning in Rooms 0283 & 0284. Level 3: No work occurring.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson is currently loading out ACM bags/wraps from Level 1 ECE to the storage containers in Parking Lot A.

0730 PBS setting up daily air sampling.

0800 Level 1: Two workers continue precutting gypsum wallboard walls. Currently, workers are near Room O181 using a HEPA vacuum and Sawzall for precutting. 8 negative machines are in operation this level.

0830 Level 2: One worker is using a wire cutter to remove the security gate at the Art Gallery. 4 workers are cutting the security gate debris into smaller pieces to be bagged in ACM waste bags. 2 workers are wrapping metal wall stud debris from columns. 1 worker is using a Sawzall and pry tools to remove metal wall studs from columns. 2 workers are doing general housekeeping - winding up wires, picking up used cans of spray adhesive, etc.

0900 Level 2: Three workers are in Room O284 - 2 workers are on scaffolding using water and multiple scraping tools to manually detail clean fireproofing on pan decking and beams, 1 worker sweeping debris. 2 workers are in Room O283 on scaffolding with a pressure washer and scraping tools to manually detail clean the pan decking and beams. 13 negative machines are in operation this level. PBS observed 18 workers inside level 1 & 2 containment.

0930 Level 2: Two workers are using a Sawzall to remove air ducts and conduits. 2 workers are using pray tools and hammers to remove gypsum wallboard and wall studs by Room O261. 1 worker is using wire cutters to remove the

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

BUILDING/AREA/LOCATION

Asbestos contaminated building materials from Levels 1/2

2 full 40 CY containers (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 1/28/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:1/28/22 |
|---|--------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

security gate. 4 workers are bagging and wrapping demolition debris in poly sheeting. 1 worker is using a water hose to control dust. 2 workers in Rooms O283 and O284 using water, powered hand grinders, and rags to detail clean fireproofing on pans decking and beams, 1 worker is sweeping fireproofing debris for both rooms

1030-1115 Workers break for lunch and return to work.

1300 Level 1: Two workers continue precutting gypsum wallboard walls throughout the level.

Level 2: Sixteen workers currently observed on this level. Workers who are not in the fireproofing areas (Rooms 0283 and 0284) are cleaning up wall and ceiling debris from demolition. 3 workers observed in the northwest corner gathering wall framing. Dickson has a large pile of bags in the former Art Gallery that are staged for loading out. Dickson is in the process of wetting items down with a Hudson type sprayer for dust control measures. Carpet removal has not started yet on this level.

1400 Level 2: Workers are HEPA vacuuming carpeting in preparation for its removal throughout the level. Three workers are in Room O284 - 2 workers are on scaffolding using water and multiple scraping tools to manually detail clean fireproofing on pan decking and beams, 1 worker sweeping debris. 2 workers are in Room O283 on scaffolding with a pressure washer and scraping tools to manually detail clean the pan decking and beams.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS leaving site. Corey F and MM still on site will lock doors and shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith Date: 1/28/22



| Asbestos Contractor: Die | ckson | | | Project Name: Olympic South Abatement & Repairs | | | |
|---------------------------|--|----------------------|--|---|-----------------------|-----|--------|
| PBS Site Observer(s): Cla | re Tsai, Toan Nguy | en Ferman Fletcher | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: | | | /31/22 |
| | | | | Page 1 of 2 | Time | 700 | am |
| Contractor on Site Persor | nnel: | | | | | | |
| Project Manager | Yes No Supervisor Yes No | | | Summary Phase Status: Level 1: GWB removal/demo. | | | |
| Workers | Yes No | No Name: Corey Foust | | Level 2: Continued GWB and carpet removal, fireproofing detail. | | | |
| How Many? +16 (+1 arriv | How Many? +16 (+1 arrived after lunch) | | | Level 3: Prep containment for server flooring company to look at. | | | |
| Air Monitoring Personnel | on site: PBS/Dickso | on | | Other Personnel on Site | : MacDonald Miller (I | MM) | |

WORK DESCRIPTION: Level 1: Gypsum wallboard removal, boxing removed carpeting. Level 2: Continued gypsum wallboard and carpet removal, fireproofing detail. Level 3: Prep server floor components and containment (viewing window) for server floor manufacturer to look inside

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson is loading out ACM bags via the skybridge loadout. 2 workers are on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A.

0730 PBS is calibrating various pumps to collect daily PCM air samples throughout site.

0815 Level 1: One worker is in Room O181 loading carpets and rugs into mega boxes (mega boxes are large carboard boxes that are double lined with poly sheeting so a larger amount of waste can be wrapped and loaded out at a time. Boxes sit on a pallet and are transported using a pallet jack or forklift).

Level 2: One worker is using a hammer and chisel to remove metal brackets on ceiling throughout the space. 2 workers are using a Sawzall to cut metal wall studs and conduits into smaller pieces to be wrapped in poly sheeting. 1 worker is using ACM stickers to label poly sheeting wraps for loadout. 1 worker is using a Commander floor scraper to remove carpet and mastic by Room O276. 3 workers by room O280 using pry tools to remove carpet flooring.

0900 Level 2: Two workers are using brushes, rags, and water to detail clean pan decking and beams in Room O284. 2 workers are using scrape tools to detail clean fireproofing from pan decking and beams in Room O283.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Mull Juli
Name: Claire Tsai Date: 1/31/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 1/31/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

PBS observed 12 workers in the level 2 work area. 2 workers on the forklift team. 2 workers on skybridge. Total of 16 workers.

1000 Level 1: One worker is prepping Megabox's to be used for loading of demolished gypsum wallboard and wall insulation.

1030-1115 Workers break for lunch and return to work.

1230 Dickson fuel truck on site filling generators and heater tank.

1330 Level 1: One worker is removing pre-cut gypsum wallboard in the ECE.

Level 2: Two workers are using a Commander floor scraper to remove carpet. 2 workers are extending the poly sheet loadout tunnel further into the work area. 2 workers are using duct tape and spray adhesive to wrap light fixture housing. 2 workers are removing light fixtures by Room O264. 2 workers are using brushes, rags, and water to detail clean pan decking and beams in Room O284. 2 workers are using scrape tools to detail clean fireproofing from pan decking and beams in Room O283.

1345 Level 1: PBS visually inspects the server floor components in 168 cleaning room. Items pass visual inspection. PBS communicate to Corey items can be removed from containment for viewing by the manufacturer. One worker shoveling demo debris into mega box placed just south of 164.

Level 2: Three workers near load out, one wrapping waste, one adjusting load out chamber, one bringing rolls of carpet to be wrapped. 2 workers removing lights from ceiling and stacking in a pile, once removed workers will separate ballasts. 2 workers cleaning up demo debris and one supervisor in area. Work continues as before in fireproofing area.

1415 One worker moving cleaned server floor components to level 3 for manufacturer to view tomorrow. Viewing window has been installed in containment on level 3 for manufacturer to look inside. Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 PBS leaving site. Doors locked. Corey and MM still on site will shut off generator

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Claure Tsai

Name: Claire Tsai

Date: 1/31/22



| Asbestos Contractor: Dickson PBS Site Observer(s): Mike Smith, Toan Nguyen, Ferman Fletcher | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|--------------|--|-------------------------|--------------------------|-------------------------|------------|
| | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 2/1/22 | | |
| | | | | Page 1 of 2 | Time | 0700 am |
| Contractor on Site Person | nnel: | | | | | |
| Project Manager Yes No Supervisor Yes No | | | Summary Phase Status: | Level 1: Demo GWB | &load Mega-boxes | |
| Workers Yes No Name: Corey Foust | | | Level 2: Remove carpet, | GWB, and detail clea | n fireproofing. | |
| How Many? + 25 (2 arriv | ed at 12:30) | | | Level 3: manufacturer ev | valuate server floor co | omponents. |
| Air Monitoring Personnel on site: PBS/Dickson | | Other Personnel on Site: MacDonald Miller (MM) & ATG Inc | | | | |

WORK DESCRIPTION: Level 1: Remove pre-cut gypsum wallboard & load Mega-boxes. Level 2: Continued carpet removal, gypsum wallboard removal and fireproofing detail cleaning. Level 3: Manufacturer evaluate server floor components.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson is loading out ACM bags via the skybridge loadout. 2 workers are on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A. 1 worker is prepping a new storage container with a poly sheeting liner.

0730 PBS is calibrating various pumps to collect daily PCM air samples throughout site.

0815 PBS, MM, and ATG Inc. (Advanced Technology Group, Inc.) look at elevated server floor areas of Level 3 to evaluate future construction plans for the space.

0830 PBS observed 18 workers throughout Levels 1 and 2.

Level 1: Four workers inside near ECE drive thru area removing and dismantling pre-cut gypsum wallboard and disposing all waste into Mega-boxes, wetting debris, and then sealing with duct tape.

0845 Level 2: Six workers doubling bagging ACM waste bags and sealing with duct tape, then loading out to the 1 worker on the skybridge. 1 worker using hand tools to remove metal brackets and conduits at ceiling throughout level. 1 worker is removing carpet with commander floor scraper by elevator. 1 worker is using rags, water and hand scrapers to detail clean structural beams and pan decking in Room O284. 2 workers are on scaffolding using hand grinders, rags, and water to detail clean fireproofing in Room O283. 2 workers are bagging fireproofing and sealing with duct tape.

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1/2/3

1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 2/1/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/1/22 |
|---|--------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0945 Level1: Five workers are removing pre-cut wallboard with pry tools, and Sawzalls then placing waste into poly sheeting lined Mega-boxes.

Level 2: Two workers are using rags, water and hand scrapers to detail clean structural beams and pan decking in Room O284. 2 workers are on scaffolding using hand grinders, rags, and water to detail clean fireproofing in Room O283. 1 worker by O264 is removing metal wall studs. 6 workers are double bagging demolition debris and sealing with duct tape before passing to 1 worker on skybridge. 1 worker removing carpet with Commander floor scraper.

1030-1115 Workers break for lunch and return to work.

1200 Level 1: Nine full mega boxes are staged in Room 181 for loadout. 5 workers performing demo on the 1st floor using Sawzalls and hand tools. 1 additional full mega box is being moved to Room 181 during PBS' walkthrough.

1220 Level 2: Seven workers are loading out ACM bags filled with demo debris at the east skybridge. 1 worker is performing demolition of the southeast upper wall using hand tools and a ladder. 6 workers are detail cleaning fireproofing in 283 and 284.

1230 Two additional Dickson workers arrive to the site and are assigned to Level 2 to assist with work efforts occurring on that level.

1300 Le May on site to swap a full waste container for an empty one in Parking Lot A.

1315 Dickson is loading out ACM bags via the skybridge loadout. 1 worker is on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS leaving site. Corey and MM still on site will shut off generator and secure site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith Date: 2/1/22



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|--|--|--|---|--|-------------------------|------|--------|----|
| PBS Site Observer(s): Cla Middaugh | Claire Tsai, Toan Nguyen, Ferman Fletcher, Gregg PBS Project No.: 40535.488 DES Project No.: 2021-192 Date | | Date: 2/ | Date: 2/2/22 | | | | |
| | | | | | Page 1 of 2 | Time | 0700 | am |
| Contractor on Site Person | nnel: | | | | | | | |
| Project Manager Yes No Supervisor Yes No | | | | Summary Phase Status: Level 1: Demo GWB & load Mega-boxes. | | | boxes. | |
| Workers Yes No Name: Corey Foust | | | Level 2: Remove carpet, GWB, and detail clean fireproofing. | | | | | |
| How Many? + 23 | | | | | Level 3: No work occurr | ing. | | |
| Air Monitoring Personnel on site: PBS/Dickson | | Other Personnel on Site: MacDonald Miller (MM) | | | | | | |

WORK DESCRIPTION: Level 1: Remove pre-cut gypsum wallboard & load Mega-boxes. Level 2: Continued carpet removal, gypsum wallboard removal and fireproofing detail cleaning. Level 3: No work occurring.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson is loading out ACM bags via the skybridge loadout. 2 workers are on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A.

0730 PBS is calibrating various pumps to collect daily PCM air samples throughout site. Currently 4 negative air machines are running on the roof for maintaining negative air pressure for the area on Level 3 not yet cleared.

0830 Level 1: Four workers are removing pre-cut gypsum wallboard with pry tools and various other hand tools, by Room O169. Demolished gypsum wallboard is being placed in mega boxes lined with poly sheeting.

Level 2: Three workers by load out area are bagging insulation and metal wall studs. 1 worker is using a Sawzall while on scaffolding to remove metal brackets. 3 workers are wrapping lighting fixture housings in poly sheeting by Room O264. 1 worker is doing general housekeeping - sweeping, keeping the floor clear of trip hazards. 1 worker is using a PDG 3000 floor grinder, to remove carpet mastic. 2 workers are on the side with HEPA vacuum to pick up any stray dust that the grinder did not pick up (by Room O280). 2 workers are on scaffolding with rags, water, and hand tools to manually detail clean fire proofing from beams and pan decking in Room O284. 1 worker is on the ground sweeping any fallen debris. 2 workers are on scaffolding with rags, water, and hand tools to manually detail clean fire proofing from beams in Room O283.

| ITEMS OF CONCERN: None | |
|---|--------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2 | Olympic South Levels 1/2 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Mulie Tsui

Name: Claire Tsai

Date: 2/2/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/2/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1000 Level 1: Four workers are removing pre-cut wallboard with pry tools and various other hand tools, by Room O169, breaking down all debris with mallet and placing all debris in mega boxes lined with poly sheeting.

Level 2: One worker continues using a PDG 3000 floor grinder to remove carpet mastic, 1 worker is on the side with HEPA vacuum to pick up any stray dust that the grinder did not (by Room O280). 2 workers are wrapping lighting fixture housings in poly sheeting by Room O275. 2 workers are removing pre-cut gypsum wallboard with pry tools and various other hand tools, by Room O261. 2 workers are on scaffolding with rags, water, and hand tools to manually detail clean fire proofing from beams and pan decking in Room O284. 1 worker is on the ground sweeping any fallen debris. 2 workers are on scaffolding with rags, water, and hand tools to manually detail clean fire proofing from beams in Room O283.

Eighteen workers observed in Levels 1 & 2.

1030-1115 Workers break for lunch and return to work.

1152 Level 1: Five workers performing gypsum wallboard demolition using Sawzalls and hand tools. PBS observed 21 Mega-boxes stored in Room 0181 ready for load out.

1220 Level 2: Eight workers continue with walls and ceilings demolition using Sawzalls and hand tools throughout the level. Enter Rooms 0283 and 0284, 5 workers continue cleaning ceilings. PBS note areas tin need of further cleaning (ie gaps in corrugated metal ceiling).

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 PBS leaving site. MM leaving site. Doors locked. Corey still on site will shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Mulie Tsui

Name: Claire Tsai

Date: 2/2/22



| Asbestos Contractor: Dickson PBS Site Observer(s): Claire Tsai, Toan Nguyen, Ferman Fletcher | | Project Name: Olympic South Ab | oatement & Repairs | | |
|---|-------------------------------------|---|--|--|--|
| | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | Date: 2/3/22 | | |
| | | Page 1 of 2 | Time 0700 am | | |
| Contractor on Site Person | nnel: | | | | |
| Project Manager | Yes No Supervisor Yes | No Summary Phase Status: Level 1: 0 | GWB & wall frame demolition. | | |
| Workers | Yes No Name: Corey Foust | Level 2: GWB & carpet mastic re | Level 2: GWB & carpet mastic removal. Detail clean fireproofing. | | |
| How Many? + 25 | | Level 3: No work occurring. | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | Other Personnel on Site: MacDonald Miller (MM) | | | |

WORK DESCRIPTION: Level 1: Continued gypsum wallboard and metal wall framing demolition. Level 2: Continued gypsum wallboard removal, carpet mastic removal, and fireproofing detail cleaning. Level 3: No work occurring

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson is loading out ACM bags via the skybridge loadout. 2 workers are on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A.

0730 PBS is calibrating various pumps to collect daily PCM air samples throughout site. Currently 4 negative air machines are running on the roof for maintaining negative air pressure for the area on Level 3 not yet cleared.

0830 Level 1: Four workers are removing precut gypsum wallboard manually with hand tools and Sawzall. 2 workers are wrapping wallboard and wall framing in poly sheeting.

Level 2: Four workers are wrapping metal wall framing and light fixture housings in poly sheeting. 1 worker is using a knife to remove pipe instillation from the Men's and Women's Restroom. 1 worker is on terminator to scrape residual carpet and mastic before grinding. 2 workers are using grinders with HEPA vacuum attachments to remove residual mastic on concrete floor. 2 workers are on scaffolding, using water, rags, powered hand grinders, and scrape tools to detail clean fireproofing from pan decking and beams in Room O284. 1 worker is on the ground supervising. 3 workers are on scaffolding using powered pressure washer, rags, powered hand grinders and scrape tools to detail clean fireproofing from pan decking and beams in Room O283.

0900 Level 1: Four workers are removing precut gypsum wallboard manually with hand tools, and Sawzalls. 1 worker is wrapping gypsum wallboard and wall framing in poly sheeting. 1 worker is using duct tape to assemble Mega-boxes. PBS

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1 & 2

1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature: Signature: Date: 2/3/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/3/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | · | · |

counts 18 workers inside Level 1 & 2 containment. Magnetic ballasts are separated from light fixtures and are currently being stored in a pile in Room 181.

0930 PBS continue inventory documentation. All contents have been moved to Room 168 for cleaning or until approved for disposal.

0945 Level 2: Two workers continue wrapping metal wall framing, light fixture housings, fiberglass insulation and metal security gate in poly sheeting. 1 worker is using a Sawzall to breakdown metal debris into smaller pieces. 3 workers are using hand grinders to remove metal brackets and Sawzall to remove conduit on ceiling throughout. 2 workers are using grinder with HEPA vacuum attachments to remove carpet mastic by O275. 2 workers are on scaffolding, using water, rags, powered hand grinders, and scrape tools to detail clean fireproofing from pan decking and beams in Room O284. 4 workers are on scaffolding using powered pressure washer, rags, powered hand grinders and scraper tools to detail clean fire proofing from pan decking and beams in Room O283.

1030-1115 Workers break for lunch and return to work.

1246 Level 1: Twenty-three Mega-boxes being stored in Room 0181. 6 workers are performing demolition of walls and ceilings using Sawzalls and hand tools. PBS observed workers using Hudson type sprayers to keep materials wet.

1315 Level 2: Five workers are demolishing the drop ceiling on the skybridge to Olympic North and are trying to determine the path of two large conduit. 10 workers observed throughout the level (except Music Rooms) demolishing gypsum wallboard and wall framing and grinding concrete to remove non-ACM floor mastic. 5 other workers continue with detail cleaning fireproofing from Rooms 0283 & 0284 ceilings on scaffolding.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1400-1500 Weekly construction meeting with project team.

1515 PBS leaving site. Corey and MM still on site will shut off generator and secure site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Claure Tsai

Date: 2/3/22



| Asbestos Contractor: Dickson | | Project Name: Olympic South Abatement & Repairs | | | | |
|----------------------------------|----------------|---|--------------------------|---|-----------------------|-----------------------|
| PBS Site Observer(s): Mil | ke Smith, Toan | Nguy | en, Ferman Fletcher | PBS Project No.: 40535.4 DES Project No.: 2021-1 | | Date: 2/4/22 |
| | | | | Page 1 of 2 | Time | 0700 am |
| Contractor on Site Person | nnel: | | | | | |
| Project Manager | Yes | No | Supervisor Yes No | Summary Phase Status: | Level 1: GWB demolit | tion/ load Mega-boxes |
| Workers Yes No Name: Corey Foust | | Level 2: Remove poly sheeting music rooms, demo GWB, remove | | | | |
| How Many? + 29 | | | | Level 3: no work occurri | ng | |
| Air Monitoring Personne | on site: PBS/D | icksor | 1 | Other Personnel on Site | : MacDonald Miller (N | ЛМ) |

WORK DESCRIPTION: Level 1: Gypsum wallboard demolition, load Mega-boxes, clean artwork. Level 2: Gypsum wallboard demolition, remove carpeting, clean up debris and remove poly sheeting 283/284. Level 3: No work occurring.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0700 PBS arrives to the site. Dickson workers have gone to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Dickson is loading out ACM bags via the skybridge loadout. 2 workers are on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A.

0730 PBS is calibrating various pumps to collect daily PCM air samples throughout site.

0830 Level 1: Two workers are lining Mega-boxes with poly sheeting and loading all demolition debris inside, then sealing with duct tape. 4 workers are using Sawzalls to remove precut gypsum wallboard. 1 worker is using a Sawzall to remove air ducts overheads. 1 worker is in the O168 clean room to detail clean artwork from Level 2.

Level 2: One worker using Commander floor scraper to remove carpet by the Art Gallery and 1 worker by skybridge connecting to OLY N. 1 worker is hammering nails to 2" x 4" lumber at exposed columns as fall protection. 2 workers are using PDG 6000 floor grinder to remove carpet mastic at Room O280. 3 workers are bagging fireproofing into ACM waste bags and sealing with duct tape in Room O284, and 1 worker is removing poly drop sheet. 1 worker on scaffolding removing metal wall studs at O284A. 2 workers are removing the poly drop sheeting in Room O284. Dickson cleaning up all water, debris and plastic sheeting in rooms 283/284 by end of day. PBS will investigate rooms on 2/7 to follow up on comment from construction meeting on 2/3 about water use in fireproofing work area.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| CHANGES IN SCOPE: None | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1 & 2 | Olympic South Levels 1 & 2 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 2/4/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/4/22 |
|---|--------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0930 Level 2: Two workers are sweeping fireproofing and water mixture in Room O284. 1 worker on mezzanine doing housekeeping. 5 workers are removing poly sheeting drop cloth. 2 worker using Commander floor scraper to remove carpet by the art gallery. 1 worker is drilling pilot holes to 2" x 4" lumber to be attached to exposed columns as fall protection. 2 workers are using a PDG 6000 floor grinder to remove carpet mastic at Room O280. Currently, 12 negative air machined are running and exhausted to the exterior this level.

1000 Level 1: Two workers are loading metal wall studs and gypsum wallboard into mega boxes and sealing with duct tape. 4 workers are manually removing air ducts and wallboard with hand tools. 1 worker is cleaning artwork in O168. 1 worker is lining Mega-boxes with poly sheeting. Currently, 9 negative air machined are running and exhausted to the exterior this level.

1030-1115 Workers break for lunch and return to work.

1200 Level 1: One worker is housekeeping in the clean room area. 6 workers performing demolition using hand tools. Demolished materials are being loaded into Mega-boxes.

Level 2: Ten workers are performing demolition in areas north of 283 and 284. 6 workers are removing carpeting and cleaning flooring in Rooms 283 and 284. Poly sheeting has been removed from the walls. 1 of 6 workers in music area is using Terminator machine to remove carpet squares. Crew using grinding machines to remove non-ACM mastic.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS leaving site. Corey still on site will shut off generator and secure site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith

Date: 2/4/22



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | |
|----------------------------------|----------------------|---|---|--|------------------------|-------------------|
| PBS Site Observer(s): Cla | ire Tsai, Peter Ster | sland, Gregg Mi | ddaugh | PBS Project No.: 40535. DES Project No.: 2021-1 | | Date: 2/7/22 |
| | | | | Page 1 of 2 | Time | 0600 am |
| Contractor on Site Persor | nnel: | | _ | | | |
| Project Manager | Yes N | o Supervisor | Yes No | Summary Phase Status: | Level 1: GWB/HVAC | demo. Load out Me |
| Workers Yes No Name: Corey Foust | | boxes. Level 2: GWB/HVAC demo. Grind residual floor mastic. | | | | |
| How Many? + 31 | | | | Level 3: No work occurr | ing. | |
| Air Monitoring Personnel | on site: PBS/Dick | son | | Other Personnel on Site | e: MacDonald Miller (I | MM) |

WORK DESCRIPTION: Level 1: Continued demolition and loading Mega-boxes in east parking area. Level 2: Continued gypsum wallboard, fiberglass insulation, and HVAC demolition. Grinding residual floor mastic. Level 3: No work occurring.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet manual methods and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. 2 workers are on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A.

0645 PBS is calibrating various pumps to collect daily PCM air samples throughout site.

0730 Level 1: Two workers cutting gypsum wallboard with Sawzalls by the clean room. 1 worker is HEPA vacuuming next to the cut, the removed wallboard sections are placed in a poly sheeting lined mega box. 2 workers are wiping down filled mega boxes near the level 1 load out area and attaching asbestos and generator tags. 1 worker is cutting HVAC ductwork out from the Mechanical Room with a Sawzall. 6 negative air machines are running and exhausted to the exterior. 2 additional negative air machines are running and being utilized as scrubbers on this level.

Level 2: Three workers inside containment are double bagging demolition waste for loadout. Two workers outside containment carrying the ACM bags to the forklift for loadout through the skybridge. 1 worker is using a grinder on the concrete floor along the east side of the building. The grinder is fitted with a HEPA vacuum attachment. 1 worker is following behind the grinder HEPA vacuuming the remaining dust. 3 workers are in Room 284 - 1 is on the mobile scaffolding removing fiberglass insulation from the north wall and 2 workers are on the ground bagging the waste and loading it into a rolling bin for loadout. 4 workers are in Room 283 bagging removed tile pieces. 1 worker is swapping out the prefilters in the negative air machines. 2 workers by the west stairs one is on mobile scaffolding using a grinder to

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1 & 2 | Olympic South Levels 1 & 2 |
| 2 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Mulli Tolki.

Name: Claire Tsai Date: 2/7/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/7/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| · - | | |
| OBSERVATIONS: | | |

remove ductwork, one is attaching wooden safety rails near holes in the floor. 11 negative air machines are running and exhausted to the exterior. 2 additional negative air machines are running and being utilized as scrubbers on this level.

0945 Level 1: Two workers in Room 181 using a Sawzall with a HEPA vacuum to cut the gypsum wallboard into segments in preparation for removal. 2 workers in the Mechanical Room are using Sawzalls to dismantle the HVAC ductwork. 3 workers in the middle of the floor loading the cut metal studs into mega boxes.

Level 2: Four workers inside the restroom area, 1 is using a jack hammer to remove ceramic floor tile, 1 worker is on a ladder removing metal studs with a drill, 1 worker is shoveling the floor sections into a poly lined wheel barrel, and 1 worker is misting down the area with water. 1 worker is using a HEPA vacuum and grinder along the eastern side of the building. 5 workers are in the music rooms - 1 is removing metal studs and insulation that separate Room 284 from the rest of the floor space. 3 are bagging the metal studs and fiberglass insulation, and 1 worker is sweeping up the fiberglass insulation by Room 283. 4 workers in the hallway between the music rooms - 2 are on mobile scaffolding removing gypsum wallboard and fiberglass insulation with Sawzalls. 1 worker is on the ground bagging the debris.

1030-1115 Workers break for lunch and return to work.

1110 PBS project manager Gregg M on site.

1115 Three workers are outside in the ECE drive thru load out area prepping the mega boxes that are outside containment for loading into ACM dumpsters. Mega boxes are set on pallets to be moved with the forklift.

1130 PBS enter containment with Corey to assess Rooms 283 and 284. On 2/3 PBS observed water dripping from the drip edge on the southwest elevation of room 284. PBS mark areas for Dickson to open wall cavity in rooms 283 and 284. Workers cut holes with Sawzall. PBS observed elevated moisture readings (approximately .8 to .9%) on the interior side of the exterior gypsum wallboard in both rooms 283 and 284. Insulation in south wall cavities does not appear to be wet, no evidence of water intrusion from the interior or exterior observed. PBS observed fireproofing over spray in wall cavities in both rooms 283 and 284. Wall cavities will need to be opened for access to abate fireproofing overspray.

1300 Three workers outside containment prepping mega boxes for disposal. 1 Dickson worker arriving on site in a fuel truck to refill the generator and heater. Work efforts in Levels 1 & 2 continue as previously noted.

1400 PBS collect microvac sample from Room 265 contents. There are 3 Dickson workers in the parking lot. 1 worker is operating the forklift, the other two workers are spotting and assisting in the dumping of the labeled ACM bags and wraps.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1515 PBS leaving site. Corey leaving site. Doors locked; generator shut off.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

| Signature: Clillic Topic | |
|--------------------------|--------------|
| Name: Claire Tsai | Date: 2/7/22 |



| Asbestos Contractor: Die | ckson | Project Name: Olympic South Abate | ment & Repairs | |
|---|--|---|----------------------------|--|
| PBS Site Observer(s): Mike Smith, Peter Stensland | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | Date: 2/8/22 | |
| | | Page 1 of 3 | me 0600 am | |
| Contractor on Site Persor | nnel: | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: Level 1: GW | B/HVAC demo. Load out Mega | |
| Workers | Yes No Name: Corey Foust | boxes. Level 2: GWB/HVAC demo. Grind carpet mastic. | | |
| How Many? + 27 | | Level 3: No work occurring. | | |
| Air Monitoring Personnel | on site: PBS/Dickson | Other Personnel on Site: MacDonald | d Miller (MM) | |

WORK DESCRIPTION: Level 1: Continued demolition and loadout of Mega-boxes to east parking area. Level 2: Continued gypsum wallboard, fiberglass insulation, and HVAC demolition. Grinding carpet mastic. Level 3: No work occurring.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. 2 workers are on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A.

0645 PBS is calibrating various pumps to collect daily PCM air samples throughout site.

0730 Level 1: One worker just inside the containment removing gypsum wallboard and fiberglass insulation from the Room 181 wall. The worker periodically spraying down the area with water. 2 workers are in the Mechanical Room demolishing HVAC ductwork with a Sawzall. 2 workers are in Room 168 precutting gypsum wallboard for removal. 3 workers are in the southern half of the level loading metal studs and demo debris into Mega-boxes, attaching generator labels and asbestos tags, and wiping down the outsides of the containers in preparation for removal from containment.

Level 2: Two workers are inside Room 284 using a Sawzall to remove and bag gypsum wallboard and fiberglass insulation. 2 workers are in Room 283 removing gypsum wallboard fiberglass insulation and metal studs with a Sawzall and drill. 3 workers are in the restroom area - 1 is HEPA vacuuming the floor the other is using a grinder to cut suspension straps for piping, one is using the large grinder on the concrete floor. One worker is establishing wooden railing around the SE column cavity as fall protection barrier. 3 workers are doing load out to the level 2 skybridge, one worker is outside the

| BUILDING/AREA/LOCATION |
|--------------------------|
| Olympic South Levels 1/2 |
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The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 2/8/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/8/22 |
|---|--------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

containment loading the bags into the forklift waste container. 1 worker is using a terminator to remove mastic from the concrete by the skybridge leading to Olympic North.

0930 Level 1: One MM worker entering containment to do a general safety inspection. 3 workers by the load out area preparing the Mega-boxes for loadout. 2 workers are in Room 181 picking up gypsum wallboard debris and insulation and shoveling the debris into mega boxes for disposal. Two workers in the Mechanical Room removing HVAC ductwork with Sawzalls. 2 workers are prying out wall sections of Room 168, workers were observed periodical spraying the walls and ground with water. 6 negative air machines are running and exhausted to the exterior. 2 additional negative air machines are running and being utilized as scrubbers on this level.

Level 2: Two workers are using a grinder on the concrete floor along the north side of the building - 1 is operating the grinder the other is using a HEPA vacuum to pick up the residual dust. 1 worker is by the restrooms cutting out metal hangers from the concrete roof with an angle grinder. 3 workers are staging bags near the skybridge loadout. 5 workers in Room 284 removing gypsum wallboard and fiberglass insulation from the southern wall. Two workers in room 283 removing GWB and fiberglass insulation from the south wall. 11 negative air machines are running and exhausted to the exterior. 2 additional negative air machines are running and being utilized as scrubbers on this level.

32 Mega-boxes have been staged in the east parking/drive-through lot. Of those 32, 16 have been loaded into a waste container. Dickson anticipates having the remaining 16 Mega-boxes loaded into a storage container by the end of the day today.

1030-1115 Workers break for lunch and return to work.

1130 One worker in the parking lot bringing Mega-boxes out from the building and stacking them on pallets with a forklift. Negative air observed (poly sheeting pulling in toward building) during loadout.

1230 Level 1: One worker is in Room 185 putting cut gypsum wallboard into a poly sheeting lined Mega-box for disposal. 2 workers in the Mechanical Room are disassembling the ductwork over the top of the main air handler. 2 workers are breaking down the gypsum wallboard demising wall between Room 168 and Office 185. Debris is loaded into a Mega-box. 3 workers near the load-out area, are sealing, marking, and cleaning Mega-boxes in preparation for removal from containment. The Mega-boxes are on pallets and are wheeled outside to the ECE drive through via pallet jack.

Level 2: One worker is using a HEPA vacuum equipped grinder to remove the remaining mastic off the concrete floor along the north wall. 1 worker is using a razor scraper to clean off the piping within the vertical central columns. 2 workers are bringing loaded carts from the music rooms to the skybridge loadout area and staging them for removal. Five workers are in Room 284 - 4 are removing gypsum wallboard and fiberglass insulation. 1 worker is misting down the area and ACM bags with a garden hose. Approximately 70% of the gypsum wallboard has been removed, approximately 60% of the insulation has been removed. 6 workers are in Room 283 Three are removing and three are bagging the GWB and

Signature: Mchall mile

Name: Mike Smith

Date: 2/8/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/8/22 |
|---|--------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

fiberglass insulation. Approximately 40% of the GWB has been removed and approximately 30% of the fiberglass insulation has been removed. Workers sprayed the air and floor with a garden hose to reduce airborne particulates periodically.

1330 Workers continue to load out ACM bag/wraps from the east skybridge. The 16 Mega-boxes previously noted in the ECE drive thru have been loaded into a waste container in Parking Lot A.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS leaving site. Corey still on site. Dickson and MM will secure site and shut-down generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date: 2/8/22



| Asbestos Contractor: Dic | kson | | | | | Project Name: Olympic S | South Abatement & F | Repairs | |
|--|--|---------|---|---|----------|--------------------------|---------------------|---------|----|
| PBS Site Observer(s): Claire Tsai, Gregg Middaugh, Peter Stensland | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 2/ | Date: 2/9/22 | | | |
| | | | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Person | nel: | | | | | | | | |
| Project Manager | Yes No Supervisor Yes No | | 10 | Summary Phase Status: Level 1: GWB/HVAC demo. Load out Mega | | | | | |
| Workers | Yes No Name: Corey Foust | | | boxes. Level 2: GWB/HVAC demo. Grind residual floor mastic. | | | | | |
| How Many? +27 (1 onsite | for the last 2 | hrs. oı | nly) | | | Level 3: No work occurri | ng. | | |
| Air Monitoring Personnel | on site: PBS/[| Dicksor | า | | | Other Personnel on Site: | MacDonald Miller (N | /M) | |

fiberglass insulation, and HVAC demolition. Grinding residual floor mastic. Level 3: No work occurring.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: manual wet methods and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building unless otherwise noted. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 Olympic South, west elevation main disconnect panel shut off for PBS to collect microvac samples of panel and conduit. MM electrician assisting PBS. Dickson workers in containment ready to reset breakers once power is switched back on.

0640 PBS finished collecting microvac samples. Main disconnect panel switched back on. Power to Olympic South is back on. Corey notifies workers inside to reset brakers and make sure all negative air machines are back up and running.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site. One worker is outside the level 1 loadout area using a pallet jack to wheel out filled mega boxes. The boxes are organized in the ECE Drive thru until they are ready to be loaded into an ACM waste container.

0800 Level 1: Two workers removing gypsum wallboard and fiberglass insulation from Room 185 with a prybar and putting the debris in a Mega-box for disposal. The workers spray down the surfaces with a Hudson type sprayer prior to removal. 2 workers are doing general housekeeping of the main hallway. 1 worker is swapping out fully loaded Megaboxes for new Mega-boxes. 1 worker is in the Mechanical Room cutting HVAC ductwork into smaller pieces for disposable with a Sawzall. 6 negative air machines are running and exhausted to the exterior. 1 additional negative air machines are running and being utilized as a scrubber on this level.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1 & 2 | Olympic South Levels 1 & 2 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | ^ |

The individual signing certifies that the above information is correct and accurate.

Signature: Clavie Tsui Date: 2/9/22 Name: Claire Tsai



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/9/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Level 2: Three workers in Room 284 removing and bagging fiberglass insulation. Approximately 20% of the insulation and GWB remains to be removed. 2 workers in Room 283 removing and bagging fiberglass insulation approximately 90% of the insulation has been removed and 95% of the gypsum wallboard has been removed. 1 worker using a buffer around the central pillars to do detail cleaning. 1 worker HEPA vacuuming the eastern wall cavity. 1 worker using an electric chipping gun to remove the asphaltic material from the restroom floor. 1 worker operating a large grinder along the north side of the level removing floor mastic. 1 worker is bagging removed fiberglass pipe insulation in Room 266. 6 workers are loadout waste, ACM bags are double bagged and promptly loaded outside of containment. There is one worker outside containment loading the ACM bags into the forklift bin. 11 negative air machines are running and exhausted to the exterior. 3 additional negative air machines are running and being utilized as scrubbers on this level.

0945 Level 1: Two workers are removing gypsum wallboard and fiberglass insulation from the Room181 and Wood Shop demising wall. One worker using a small push terminator to remove carpeting just inside of the decontamination chamber door. 1 worker is cutting apart the main air handler in the Mechanical Room. 2 workers are managing and swapping out the Mega-boxes.

Level 2: Two workers in Room 284 - 1 worker is bagging fiberglass insulation the other is cutting wooden pieces in half with a Sawzall for easier disposal. Approximately 10% of the gypsum wallboard / insulation remains to be removed. 4 workers in Room 283 bagging fiberglass insulation. Approximately 5% of the gypsum wallboard / insulation is left to be removed. 4 workers are double bagging and assisting in the load out of ACM bags. 1 worker is running a tip bin between Room 284 and the load out area bringing the ACM bags to the double bagging area. 1 worker is doing general housekeeping in the restroom. 2 workers are along the north wall - 1 is removing fiberglass insulation from the wall, the other is using a grinder to remove mastic from the concrete floor. 1 worker is organizing tools along the west wall.

1030-1115 Workers break for lunch and return to work.

1100 PBS project manager Gregg M on site for walk through.

1245 Level 1: Three workers disassembling HVAC ductwork in the Mechanical Room. 3 workers are cutting metal studs with Sawzalls and putting them in Mega-boxes for loadout.

Level 2: One worker is using a HEPA vacuum equipped grinder to remove mastic on the north side of the building. 4 workers are double bagging demolished materials on top of a poly sheeting drop cloth by the skybridge loadout. 1 worker along the west wall doing general housekeeping. 1 worker along the east wall HEPA vacuuming the wall cavity between the metal studs. 5 workers in Room 284 - 2 on mobile scaffolding removing remaining gypsum wallboard and fiberglass insulation and 3 workers on the ground bagging the contents and moving them in poly sheeting lined tip bins to the load out area. The debris is periodically misted with a water hose. Three workers in Room 283 one is fixing the negative air exhaust poly tubing; 2 workers are on mobile scaffolding removing the last section of gypsum wallboard and fiberglass insulation.

The individual signing certifies that the above Signature: White Signature: White Signature: Name: Claire Tsai

Date: 2/9/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/9/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1330 One worker inside the level one loadout area rolling mega boxes on pallets to one worker outside of containment who organizes them in the ECE drive thru in preparation for loading into an ACM waste container.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS leaving site. Corey still on site. Dickson and MM will secure site and shut-down generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: (Mull J Sui Name: Claire Tsai

Date: 2/9/22



| Asbestos Contractor: Dic | kson | Project Name: Olympic South Abatement & Repairs | | | |
|----------------------------|--|---|---------------|--|--|
| PBS Site Observer(s): Clai | re Tsai, Peter Stensland | PBS Project No.: 40535.488 DES Project No.: 2021-192 | Date: 2/10/22 | | |
| | | Page 1 of 2 Time | e 0600 am | | |
| Contractor on Site Person | nel: | | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: GWB/HVAC demo. Load out Mega- | | | |
| Workers | Yes No Name: Corey Foust | boxes. Level 2: GWB/HVAC demo. Grind residual floor mastic. | | | |
| How Many? + 23 | | Level 3: No work occurring. | | | |
| Air Monitoring Personnel | on site: PBS/Dickson | Other Personnel on Site: MacDonald Miller (MM) | | | |

WORK DESCRIPTION: Level 1: Continued demolition and load out of Mega-boxes via ECE drive thru. Level 2: Continued gypsum wallboard, fiberglass insulation, and HVAC demolition. Grinding residual floor mastic. Level 3: No work occurring.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. 2 workers are on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A. Two MM electricians on site building framing on west elevation for temporary power.

0645 PBS is calibrating various pumps to collect daily PCM air samples throughout site.

0745 Level 1: Three workers loading HVAC ductwork and conduit into Mega-boxes. 3 workers inside Mechanical Room removing HVAC ductwork and conduit. 1 worker bringing down fiberglass insulation from Level 2 and loading it into a Mega-box. 6 negative air machines are running and exhausted to the exterior. 1 additional negative air machine is running and being utilized as scrubbers on this level.

Level 2: Four workers in Room 284 - 2 on mobile scaffolding using buffers and steel brushes to remove fireproofing from the central pan decking and above beams. 1 worker is bagging debris remaining in south wall cavity. 1 worker bagging used negative air pre filters. 2 workers in Room 283 removing screws from metal studs with drills and residual pieces of gypsum wallboard and insulation. 3 workers along the north wall of 265, 1 using a HEPA vacuum equipped grinder to remove mastic from the concrete floor, 1 HEPA vacuuming the residual dust and debris from the grinder, the other worker is using a Sawzall to cut up the removed wooden wall panels. 1 worker in the skybridge between Olympic North and Olympic South removing gypsum wallboard and fiberglass insulation from above the windows. 2 workers along the east wall are gathering cleaning equipment in tip bins. 11 negative air machines are running and exhausted to the exterior. 2 additional negative air machines are running and being utilized as scrubbers on this level.

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1/2

1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature: // Sui
Name: Claire Tsai

Date: 2/10/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/10/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0930 Level 1: Three workers cutting metal studs and conduit for disposal into Meg-boxes. 2 workers in the Mechanical Room using a Sawzall to cut out metal hangers, conduit and the air handler. 2 workers using pry bars and Sawzalls to breakdown HVAC ductwork for disposal. 2 workers in northwest stair landing remove WA Art Trout painting from wall. One worker cut apart trout painting as requested by college for disposal. One worker loads sections of art into separate bags for disposal. PBS photo document destruction of artwork for record keeping.

Level 2: Two workers are in the west skybridge removing gypsum wallboard and fiberglass insulation above the expansion joint between the skybridge and building. Workers using hand tools to ensure building seal is not impacted. 2 workers are along the west wall cleaning between the metal studs. 2 workers are along the north wall, 1 worker removing debris from base of wall cavity, the other worker is using a HEPA vacuum equipped grinder to remove the mastic off of the concrete. 3 workers in Room 284 - 2 on mobile scaffolding using buffers to clean fireproofing off of the pan decking, one worker is using a screwdriver to pry off the remaining gypsum wallboard and fiberglass insulation along the exterior walls. 2 workers in Room 283 removing screws from studs and cleaning leftover debris from wall cavity.

1030 One MM electrician assist PBS sampling junction box in Level 2 east skybridge of conduit running from Olympic South to light fixture in skybridge.

1030-1115 Workers break for lunch and return to work.

1300 Level 1: Two workers cutting HVAC ductwork in the Mechanical Room with Sawzalls, approximately 15% remains to be removed. 3 workers sealing up Mega-boxes just inside of the containment entrance. 2 workers along the western wall cutting up HVAC sections into smaller pieces to make disposal easier.

Level 2: Six workers near west skybridge. 2 workers on ladders removing screws from the metal studs near the expansion joint, 2 workers are bagging the fiberglass insulation and conduit debris from the removal. 1 worker is grinding the mastic off of the concrete floor and one worker is HEPA vacuuming behind the grinder to pick up any remaining debris. 3 workers in Room 284 - 1 on a ladder removing screws from the metal studs, two on mobile scaffolding doing detail cleaning of the pan decking and metal beams. 2 workers in Room 283 on mobile scaffolding removing gypsum wallboard & wet wiping water pipes. 1 worker is moving throughout the space doing general housekeeping.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1400-1500 Weekly construction meeting with project team.

1515 PBS leaving site. Corey still on site will shut off generator and secure site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Claire Tsai

Date:2/10/22



| Asbestos Contractor: Die | ckson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|--|---------|-----|--|---|----------|-------|----|
| PBS Site Observer(s): Mik | e Smith, Peter S | Stensla | and | PBS Project No.: 40535. DES Project No.: 2021-1 | | Date: 2/ | 11/22 | |
| | | | | | Page 1 of 3 | Time | 0600 | am |
| Contractor on Site Persor | nnel: | | | | | | | |
| Project Manager | Yes No Supervisor Yes No | | | | Summary Phase Status: Level 1: Demo/abatement/loadout | | | |
| Workers | Workers Yes No Name: Corey Foust | | | | Level 2: Demo/abatement | | | |
| How Many? + 27 | | | | | Level 3: No work occurring | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | | Other Personnel on Site: MacDonald Miller (MM) | | | |

WORK DESCRIPTION: Level 1: Continued HVAC & conduit demolition and loading Mega-boxes. Level 2: Continued detail cleaning of fireproofing in the music rooms, grinding residual floor mastic, wiring removal, HEPA vacuuming, and loading Mega-boxes. Level 3: No work occurring

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. 2 workers are on the skybridge loading the bags into the forklift metal bin. The forklift operator and a spotter then transport the bags to the storage container located in Parking Lot A.

0700 PBS is calibrating various pumps to collect daily PCM air samples throughout site.

0740 Level 1: Two workers in Mechanical Room 173 removing conduit above the electrical panels. 1 worker is spraying down the work area with water. 2 workers are doing general housekeeping by the east loadout. 6 negative air machines are running and exhausted to the exterior. 1 additional negative air machine is running and being utilized as scrubbers on this level.

Level 2: Three workers in Room 284 on mobile scaffolding - 2 workers detail cleaning pan decking and pipes to remove remaining fire proofing, 1 worker HEPA vacuuming south wall metal studs. 3 workers in Room 283 - 2 on mobile scaffolding using wire brushes to clean pipes and metal beams, 1 worker cleaning base of wall cavity with HEPA vacuum near the negative air machines. 1 worker HEPA vacuuming near the west stairs along the ledge. 4 workers loading out ACM bags to 1 worker outside containment. 2 workers along the north wall HEPA vacuuming wall cavity. 1 worker grinding residual floor mastic by the elevator. 1 worker HEPA vacuuming west wall cavity. 1 worker on mobile scaffolding

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1 & 2

2 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 2/11/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/11/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | · | · |

along the west wall cutting out wires from ceiling conduits. 11 negative air machines are running and exhausted to the exterior. 2 additional negative air machines are running and being utilized as scrubbers on this level.

0800 Two workers in scissor lift are cutting 3 holes into the underdeck of the Student Lounge skybridge to provide access for PBS to collect microvac samples.

0940 Level 1: One worker in Room 173 removing conduit from the ceiling. 1 worker loading conduit into Mega-boxes just south of the Mechanical Room. 4 workers sealing, cleaning and marking Mega-boxes with appropriate tags by the loadout area.

Level 2: Three workers in Room 284 on mobile scaffolding – 2 removing fireproofing with buffers and steel wool, 1 HEPA vacuuming the wall cavity between the metal studs. 4 workers in Room 283 – 2 on mobile scaffolding removing ACM fireproofing with wire brushes and 2 workers on ground moving around water supply lines and power lines. 3 workers in east area HEPA vacuuming dust from floor. 1 worker on mobile scaffolding in west area using pliers to remove wires from ceiling conduit and junction boxes embedded in concrete. 2 workers loading out ACM bags to the second floor skybridge. 1 worker HEPA vacuuming along the border of the restroom. 1 worker using a handheld grinder to do detail work along the north wall. 1 worker is using the HEPA vacuum grinder on the west skybridge.

1030-1115 Workers break for lunch and return to work.

1200 Corey assist PBS to collect microvac samples from the bottom side of the student lounge/skybridge. Inside of the space there are metal beams with what appears to be foil-backed fiberglass insulation attached to the floor with metal insulation anchors.

1320 Level 1: Two workers in Room 173 cutting out HVAC ductwork from the ceiling with a Sawzall. 1 worker just south of Room 173 cutting the ductwork into smaller pieces with a Sawzall for disposal. Workers have now created a poly sheeting barrier between the kitchen and the rest of the containment for sheet vinyl flooring removal.

Level 2: Six workers doing general housekeeping by the restroom / loadout area (cleaning out HEPA vacuum, vacuuming up the floor and picking up general debris). 1 worker is HEPA vacuuming the floor around the west stair negative air machines. 3 workers in Room 284 - 2 on mobile scaffolding removing fireproofing from pan decking and steel beams with wire brushes and wet cloths and one worker HEPA vacuuming out between the metal studs on the south wall. 4 workers in Room 283 doing general housekeeping in preparation for the end of the day.

1400 PBS collects consultant air samples running throughout the site

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Signature: Mchall mit

Name: Mike Smith

Date: 2/11/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/11/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1500 PBS departs the site for the shift. Microvac samples collected today will be taken to Lab/Cor for analysis. Corey securing building and shutting down generators.

Good negative pressure indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith Date: 2/11/22



| Asbestos Contractor: Die | ckson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|---|-------|---------------------------------|--|---|-------------|--|--|
| PBS Site Observer(s): Cla | re Tsai, Peter St | ensla | nd | PBS Project No.: 40535. DES Project No.: 2021-1 | | Date: 2/14/ | | |
| | | | | Page 1 of 2 | Time | 0600 a | | |
| Contractor on Site Persor | nnel: | | | | | | | |
| Project Manager | anager Yes No Supervisor Yes No | | | | Summary Phase Status: Level 1: Demo/Abatement/Loadout | | | |
| Workers Yes No Name: Corey Foust | | | Level 2: Demo/Abatement/Loadout | | | | | |
| How Many? + 23 | | | | | Level 3: No work occurring | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | | Other Personnel on Site: MacDonald Miller (MM) | | | |

WORK DESCRIPTION: Level 1: Continued HVAC & conduit demolition and loading Mega-boxes. Level 2: Continued detail cleaning of fireproofing
In the music rooms, grinding residual floor mastic, wiring removal, HEPA vacuuming, and loading Mega-boxes. Level 3: No work occurring
WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 One worker moving ACM Mega-boxes on pallets from the ECE east loadout to the ACM dumpster in Parking Lot A. 1 additional worker is in Parking Lot A lining new containers with poly sheeting.

0700 PBS is calibrating various pumps to collect daily PCM air samples throughout site.

0745 Level 1: One worker in Mechanical Room 173 cutting up HVAC sections into smaller pieces for disposal. 4 workers loading debris into mega boxes and loading out boxes once full. 1 worker in the south area cutting out HVAC ductwork. The area is periodically wetted to control dust. 2 workers removing floor mastic off concrete in ECE kitchen, ACM sheet vinyl flooring has been removed (one negative air machine located in the kitchen exhausting outside has this activity under negative pressure from the rest of the work area). 6 negative air machines are running and exhausted to the exterior. 1 additional negative air machine is running and being utilized as scrubbers on this level.

Level 2: One worker in Room 284 using steel wool to clean fireproofing overspray from metal studs along the perimeter walls. 1 worker wetting the area to control dust. 1 worker wet wiping settled dust from negative air machines. 2 workers in Room 283 - 1 on mobile scaffolding wet wiping I-beams and water pipes, 1 on a ladder scrubbing metal studs with a wire brush after wetting it with a Hudson sprayer. 2 workers picking up debris and organizing water lines by the restroom. 2 workers along the north wall, one using a HEPA vacuum equipped grinder to remove mastic from the concrete floor, 1 picking up remaining dust with a handheld HEPA vacuum. 1 worker detail grinding with a HEPA vacuum attachment by

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

BUILDING/AREA/LOCATION

Asbestos contaminated building materials from Levels 1 & 2

ACM sheet vinyl flooring – ECE Kitchen ~350SF

2 full 40 CY containers (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature: Www. T. Sui.

Name: Claire Tsai Date: 2/14/22



Date: 2/14/22

| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/14/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

the elevator entrance. 11 negative air machines are running and exhausted to the exterior. 2 additional negative air machines are running and being utilized as scrubbers on this level.

0945 Level 1: One worker cutting out HVAC ductwork outside the 168 cleaning room. 1 worker and one MM electrician are looking at the electrical panels that still have power in 173. 4 workers loading metal and debris into Mega-boxes for loadout. 2 workers cutting metal ceiling grid with a Sawzall for disposal.

Level 2: One worker grinding the floor around the east skybridge doors, 2 workers HEPA vacuuming around the grinding area. 1 worker in the restrooms using a jack hammer to remove the black asphaltic material (below the mortar bed) on top of the concrete. 1 worker is pressure washing the pipes in the restroom. 3 workers in Room 284 on mobile scaffolding - 2 detail cleaning fireproofing from ceiling components, 1 detail cleaning fireproofing overspray from metal studs using brushes, a HEPA vacuum and wet rags. 2 workers in Room 283 - 1 on mobile scaffolding wet wiping I-beams and water pipes, 1 on a ladder scrubbing metal studs with a wire brush after wetting it with a Hudson sprayer. 1 worker mopping the floor in the west area of the level. 1 worker on a ladder near 283/284 removing remaining metal hangers / mounting points with a socket wrench and drill and bagging the debris.

1030-1115 Workers break for lunch and return to work. One MM electrician in the level 1 Mechanical Room marking conduit ready for demo.

1300 PBS in Room 168 cleaning room visually inspecting cleaned artwork from Room 266.

1330 Level 1: One worker in Room 173 demolishing conduit marked by MM electrician for removal. 2 workers construct Mega-boxes with tape and prep with poly sheeting to be filled with demolition debris. 1 worker on terminator scraping floor mastic near Room 168. One worker with pallet jack staging Mega-boxes to be loaded out. 2 workers near Room 166A load demolition debris into Mega-boxes.

Level 2: One worker in west skybridge with hand grinder removing floor mastic. 2 workers at west windows tape poly sheeting over windows. 1 worker with a chipping gun removing mortar bed and black asphaltic material below in restroom area. 1 worker detailing floor mastic around structural beams with hand grinder. 1 worker adding framing to east door frame. 1 worker in the north Art Gallery area bagging demolition debris. 2 workers detail cleaning ceiling components in Room 284. 1 worker wet wiping fireproofing overspray off wall studs in Room 284 south wall cavity. 2 workers in Room 283 - 1 on scaffolding detailing ceiling components, 1 wet wiping fireproofing overspray from south wall cavity.

1345 Items pass PBS visual inspection. PBS collecting microvac samples from the previously noted Room 266 artwork. One worker loads PCB ballasts into metal drum. Lid marked with quantity of 63.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1515 PBS and MM leaving site. Doors locked. Corey still on site will shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building. PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

| The individual signing certifies that the above | Signature: (LAUL TALL |
|---|-----------------------|
| information is correct and accurate. | Name: Claire Tsai |



| Asbestos Contractor: Dickson | | | | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|--------------------------|----|------------|---------------------------------|--|--|---------------------|-------------|--------|
| PBS Site Observer(s): Mike Smith, Peter Stensland | | | | | | PBS Project No.: 40535 DES Project No.: 2021- | | Date: 2, | /15/22 |
| | | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Perso | nnel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status | Level 1: Demo/Abate | ment/Loadou | t |
| Workers | Yes No Name: Corey Foust | | | Level 2: Demo/Abatement/Loadout | | | | | |
| How Many? + 28 | | | | | | Level 3: No work occur | ring | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | | Other Personnel on Site: MacDonald Miller (MM) | | | | |

WORK DESCRIPTION: Level 1: Continued HVAC & conduit demolition and loading Mega-boxes. Level 2: Continued detail cleaning of fireproofing in Rooms 283/284, grinding residual floor mastic via Terminator or grinder, HEPA vacuuming, and loading Mega-boxes. Level 3: No work occurring WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site. One worker moving ACM Megaboxes on pallets from the ECE east loadout to the ACM dumpster in Parking Lot A. 1 additional worker is in Parking Lot A lining new containers with poly sheeting.

0740 Level 1: PBS photo document one worker destroying Washington art piece "Hidden Blue" as requested. Art cut into pieces and placed in ACM bag before loading into a Mega-box. Photos kept for recordkeeping of disposal. 1 worker adjacent to the decontamination room closing a Mega-box for loadout, 2 workers in the Mechanical Room cutting out conduit and HVAC ductwork. 3 workers setting up a new poly sheet drop cloth by the loadout area. 2 workers cutting metal studs and putting them into a Mega-box along the west well.

Level 2: Four workers in Room 284 – 1 on terminator removing carpet mastic from the floor and 3 workers on mobile scaffolding detail cleaning wall studs and pan decking. 2 workers are hanging poly sheeting to separate fireproofing area (Rooms 283/284) from the rest of the floor. 1 worker is using a HEPA vacuum equipped grinder to clean the residual mastic from the concrete floor between Rooms 283 and 284. 5 workers are in Room 283 - 4 are on the ground HEPA vacuuming and 1 is on mobile scaffolding doing detail cleaning of the ceiling. 2 workers along the north wall are assembling more mobile scaffolding.

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1 & 2

1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 2/15/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/15/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0900 PBS collects a bulk field sample of caulking along the pan decking above the CMU wall which separates rooms 283 and 284 for analysis.

1030 Pierce College employee (Bill Spur) looks at stored sheet music cabinets in Conex 4 for evaluating needs to transport to storage at the Puyallup Campus. Bill with follow up with PBS for transport scheduling.

1030-1115 Workers break for lunch and return to work.

1100 Level 1: PBS collects microvac sample from Room 181 sink after visual inspection satisfactory for visible dust. 1 MM worker inside containment looking at the electrical panels and conduits.

1245 Level 1: Work efforts continue as previously noted. Dickson workers are demolishing HVAC components and wall framing members. Demolished materials are being placed into lined Mega-boxes and staged for removal. 6 negative air machines are running and exhausted to the exterior. 1 additional negative air machine is running and being utilized as a scrubber on this level.

Level 2: Work efforts continue as previously noted. Dickson workers are cleaning pipes and concrete ceiling throughout the space. Other workers continue to remove residual fireproofing from the ceilings of the music rooms. Workers are also continuing to remove residual floor mastic from concrete floors using grinders with HEPA vacuum attachments. 11 negative air machines are running and exhausted to the exterior. 2 additional negative air machines are running and being utilized as scrubbers on this level.

1300 PBS is collecting microvac samples from Room 266 artwork (previously inspected for surface dust).

1400 PBS is collecting consultant air samples throughout the site that were initiated this morning.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS prepares samples and COCs for drop off at Lab/Cor.

1530 PBS leaves for the day and shuts off the generator. Corey has secured the site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith

Date: 2/15/22



| Asbestos Contractor: Di | ckson | | Project Name: Olympic South Abatement & Repairs | | | | |
|----------------------------------|--|------------------|---|---------------------------------|---|---------|--|
| PBS Site Observer(s): Cla | ire Tsai, Gregg Mido | daugh, Peter Ste | PBS Project No.: 40535.4 DES Project No.: 2021-1 | | Date: 2/16/22 | | |
| | | | | Page 1 of 2 | Time | 0600 am | |
| Contractor on Site Person | nnel: | | | | | | |
| Project Manager | oject Manager Yes No Supervisor Yes No | | | | Summary Phase Status: Level 1: Demo/Abatement/Loadout | | |
| Workers Yes No Name: Corey Foust | | | | Level 2: Demo/Abatement/Loadout | | | |
| How Many? + 27 | | | Level 3: No work occurring | | | | |
| Air Monitoring Personne | on site: PBS/Dickso | on | Other Personnel on Site: MacDonald Miller (MM) | | | | |

WORK DESCRIPTION: Level 1: Continued HVAC & conduit demolition and loading Mega-boxes. Level 2: Continued detail cleaning of fireproofing in Rooms 283/284, grinding residual floor mastic via Terminator, HEPA vacuuming, and loading Mega-boxes. Level 3: No work occurring

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS is calibrating various pumps to collect daily PCM air samples throughout site.

0730 Level 1: One worker setting up Super-Lifts in preparation for HVAC removal outside of room 168. 1 worker misting down automotive creepers with water and then wet wiping them. 5 workers cutting apart HVAC ductwork in the center of the floor and loading them into Mega-boxes where they are then staged for loadout. The work area is periodically misted down with water.

Level 2: Six workers in Room 284. 2 workers on mobile scaffolding detail cleaning pan decking and metal beams. 1 worker using a razor scraper to remove mastic and tape along the CMU wall. 2 workers securing poly dividing wall with tape and adhesive between fireproofing area (Room 283/284) and the rest of the floor. 1 worker HEPA vacuuming between the metal studs along the perimeter of the building. 3 workers in Room 283, two on mobile scaffolding wiping down pan decking and beams and the other worker on a ladder detail cleaning the metal studs. 2 workers below the mechanical mezzanine, 1 wet wiping the ceiling and the other is using a razor blade to scrape the columns. 1 worker HEPA vacuuming the floor along the west wall. 1 worker HEPA vacuuming the pipes in the restroom with a brush attachment. 1 worker is securing a new poly sheeting wall along the stairs (separating LV2 detail cleaning area from LV1 and future elevator demo area. 1 worker erecting mobile scaffolding in Room 266.

0930 PBS project manager Gregg M on site for walk through.

| BUILDING/AREA/LOCATION |
|----------------------------|
| Olympic South Levels 1 & 2 |
| |
| |
| 0. |
| |

The individual signing certifies that the above information is correct and accurate.

Signature: Laure Taure

Name: Claire Tsai

Date: 2/16/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/16/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0945 Two workers in Parking Lot A managing the waste containers. 1 worker is wheeling supplies back to the containment with a hand cart.

0955 Level 2: Four workers in Room 284 - 1 on mobile scaffolding wiping down the top of the CMU wall, 1 worker HEPA vacuuming the floor but the doorway, 1 worker mopping the floor, and 1 worker wet wiping metal studs. 4 workers in Room 283 - 2 on mobile scaffolding using buffers to clean the pan decking, 1 worker doing general housekeeping, and 1 worker attaching a ladder with wire to secure access to the mechanical mezzanine. Corey and PBS inspecting the columns along the perimeter of the room. 1 worker in Room 284A pulling wire out of the wall. 5 workers along the east wall, 1 securing new safety rails to the concrete columns, 4 wet wiping pipes and concrete ceiling on mobile scaffolding and ladders.

1030-1115 Workers break for lunch and return to work.

1200 Level 1: Two workers cutting out HVAC ductwork from the ceiling of the main N to S hallway. Water is sprayed on the ductwork prior to cutting. 1 worker doing general housekeeping by the loadout area, 3 workers removing lights in the ECE. 3 workers cutting and putting removed metal components into Mega-boxes for disposal. 1 worker in room 168 wet wiping the inside of a HEPA vacuum.

1245 Level 1: Two workers loading in a wooden forklift bin/crate and lining it with poly sheeting. 1 worker doing general housekeeping along the southern elevation. 1 worker cutting up HVAC ductwork south of the Mechanical Room, 1 worker misting it with a hose. 1 worker in the Mechanical Room cutting out conduit and 1 worker cutting out HVAC ductwork coming from the Mechanical Room into the main north to south hallway.

Level 2: Four workers wet wiping metal studs and pipes along the east side of the floor. 5 workers in Room 284 - 1 on mobile scaffolding cleaning the top of the metal studs along the south wall, 2 workers wet wiping and cleaning studs along the west wall, 1 worker removing fiberglass insulation from around the doorway frame, and 1 worker moving the power cables around to move the mobile scaffolding. 7 workers in Room 283 - 1 worker on the terminator removing floor mastic, 1 worker moves the cords and negative air exhausts out of the path for the terminator, 2 workers on mobile scaffolding HEPA vacuuming and wet wiping the metal beams, 1 worker HEPA vacuuming the penetration to the roof hood above the mechanical mezzanine, and 1 worker doing general housekeeping.

1400 PBS collects consultant air samples throughout the site that were initiated this morning.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1530 PBS leaves for the day. Corey will shut down generator secure the site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

| The individual signing certifies that the above | Signature: Claure Tsai | |
|---|------------------------|---------------|
| information is correct and accurate. | Name: Claire Tsai | Date: 2/16/22 |



| | | | oepo | | | | | | |
|------------------------------|----------------|---------|------------------|-----------|--------|---|--------------------|-----------------|----------|
| Asbestos Contractor: Dicks | son | | | | | Project Name: Olympic Sou | ıth Abatement & I | Repairs | |
| PBS Site Observer(s): Claire | Tsai, Peter S | Stensla | and | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 2/ | 17/22 |
| | | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Personne | el: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: Lev | el 1: Demo/Abate | ment/Loadou | : |
| Workers | Yes | No | Name: Core | y Foust | | Level 2: Demo/Abatement/ | Loadout (| | |
| How Many? + 29 | | | | | | Level 3: No work occurring | | | |
| Air Monitoring Personnel o | n site: PBS/D | icksor | ١ | | | Other Personnel on Site: M | acDonald Miller (N | MM) | |
| | | | | | | | | | |
| WORK DESCRIPTION: Leve | el 1: Continue | ed HV | AC & conduit | demoliti | on and | loading Mega-boxes. Level 2: 0 | Continued detail c | leaning of fire | oroofing |
| and wall framing in Rooms | 283/284, grii | nding | residual floor i | mastic vi | a Term | inator, HEPA vacuuming, and lo | pading Mega-boxe | es. Level 3: No | work. |

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside work areas including HEPA exhausted air.

0700 PBS is calibrating various pumps to collect daily PCM air samples throughout site.

0745 Level 1: Three workers along the south side of the floor, 1 is using an angle grinder to cut out small sections of metal from the ceiling, 1 is assembling new Mega-boxes, and 1 is going through tools looking for drill bits. 1 worker is doing general housekeeping throughout the floor. 1 worker is assembling a Mega-box near the Mechanical Room. 1 worker in the Mechanical Room is demolishing conduit. 1 worker just inside of containment is removing fiberglass insulation from pipes. The insulation is misted with a Hudson sprayer before each section is removed.

level 2: Three workers in Room 284 on mobile scaffolding - 2 are detail cleaning the metal studs along the exterior wall, 1 worker is wiping down the pan decking and steel beams by the CMU wall. 5 workers in Room 283 - 3 are on mobile scaffolding doing detail cleaning of the pan decking, 1 worker is bringing in equipment, 1 worker is operating the HEPA vacuum grinder. 2 workers on the other side of the 283A wall wet wiping steel beams and metal studs. 4 workers wet wiping studs along the east wall. 1 worker using an electric chisel to remove mastic from the bathroom concrete floor. 1 worker is on mobile scaffolding wet wiping and HEPA vacuuming the ceiling.

0930 PBS microvac samples the electrical conduits next to the main transformer between Olympic South and Olympic North.

| ITEMS OF CONCERN: None | | |
|---|----------------------------|---------------|
| | | |
| CHANGES IN SCOPE: None | | |
| | | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION | |
| Asbestos contaminated building materials from Levels 1 & 2 | Olympic South Levels 1 & 2 | |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | | |
| | | |
| | | |
| The individual signing certifies that the above | Signature: | |
| information is correct and accurate. | Name: Claire Tsai | Date: 2/17/22 |



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:2/17/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1145 Level 1: One worker on a scissor lift removing pipe insulation in the main N to S hallway. 1 worker using a Super Lift to support pipe section. 1 worker is misting the work area with a water hose throughout the floor. 1 worker is breaking apart HVAC ductwork with a hammer to make for easier disposal. 3 workers bagging contents in Mega-boxes. 1 worker is on a scissor lift in the ECE removing fiberglass pipe insulation with a razor blade.

Level 2: Three workers in Room 283 on mobile scaffolding wet wiping and HEPA vacuuming the metal wall studs. 6 workers in Room 283 – 2 on mobile scaffolding wet wiping and HEPA vacuuming the metal exterior wall studs, 1 is on a terminator scraping residual mastic off the floor, 1 bagging the mastic, and two assisting in cleaning of the general work area / passing tools to the workers on the scaffolding. 4 workers along the west wall wet wiping and HEPA vacuuming the wall studs. 1 worker is doing detail scraping around the edges of concrete columns with a razor. 1 worker is doing detail removal of the mastic on the bathroom concrete floor. 2 workers cutting out wires and metal hangers from the Room 266 ceiling.

1300 PBS collects additional microvac samples from the robin's nest and storage bins south of the ECE.

1400 PBS is collecting consultant air samples throughout the site that were initiated this morning.

1400-1500 Weekly construction meeting with project team.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1530 PBS leaves for the day. Corey will shut down generator secure the site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

| The individual signing certifies that the above | Signature: | |
|---|-------------------|---------------|
| information is correct and accurate. | Name: Claire Tsai | Date: 2/17/22 |



| Asbestos Contractor: Dickson | | Project Name: Olympic South Abatement & Repairs | | | | | | |
|---|-----------------|---|---------------------------------|---------------|---|-------------------|----------|--------|
| PBS Site Observer(s): Mil | ce Smith, Peter | Stens | land | | PBS Project No.: 40535. DES Project No.: 2021- | | Date: 2, | /18/22 |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nnel: | | | _ | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | Demo/Abatement/Lo | oadout | |
| Workers Yes No Name: Corey Foust | | | Level 2: Demo/Abatement/Loadout | | | | | |
| How Many? + 29 | | | | | Level 3: No work occurr | ing | | |
| Air Monitoring Personnel on site: PBS/Dickson | | Other Personnel on Site: MacDonald Miller (MM) | | | | | | |

WORK DESCRIPTION: Level 1: Continued HVAC & conduit demolition and loading Mega-boxes. Level 2: Continued detail cleaning of fireproofing and wall framing in Rooms 283/284, grinding residual floor mastic via Terminator, HEPA vacuuming, and loading Mega-boxes. Level 3: No work.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: manual wet methods and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0645 PBS calibrating various pumps to collect daily PCM air samples throughout site. One worker observed moving ACM Mega-boxes on pallets from the ECE east loadout to the ACM dumpster in Parking Lot A with a forklift. 2 additional workers are in Parking Lot A lining new containers with poly sheeting and assisting with loading Mega-boxes into storage container. Corey and 1 worker are laying out locations of 6 additional investigation holes on the exterior base of the skybridge between Olympic South and Olympic North.

0815 Level 1: One worker just inside containment on a scissor lift removing light hangers with a Sawzall. 1 worker in the middle of the floor on a scissor lift removing wires from the ceiling.1 worker in the Mechanical Room pulling off gypsum wallboard and fiberglass insulation from the west exterior wall. 3 workers on the east side of the building ECE removing gypsum wallboard, fiberglass insulation and wood and loading it into Mega-boxes. 2 workers assembling and moving new Mega-boxes for the demolition debris.

Level 2: Three workers on mobile scaffolding in Room 284 - 1 detail cleaning the pan decking and steel beams, two HEPA vacuuming and wet wiping the metal studs. 4 workers in Room 283 - 3 wet wiping / HEPA vacuuming the metal studs, 1 worker is grinding the floor with a HEPA vacuum equipped grinder. 7 workers along the west wall doing detail cleaning on the metal studs and pipes. 1 worker along the top of the stairs doing grinding around the edges of the safety rail.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1/2/3 | Olympic South Levels 1/2/3 |
| 2 full 40 CY containers (ACM bags and wraps) removed from site today | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 2/18/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/18/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0900 PBS is microvac sampling contents from room 261

1030 Level 1: One worker demolishing ceiling mounted air filtration systems in 181. 4 workers along the west wall removing gypsum wallboard and fiberglass insulation. 2 workers bagging insulation in Mega-boxes / ACM bags.

Level 2: Four workers in Room 284 - 1 is securing the poly sheeting barrier that separates the music rooms from the rest of the floor, 1 is wet wiping and HEPA vacuuming above the negative air machines, 2 workers are on the mobile scaffolding doing detail cleaning on the metal studs. 3 workers in Room 283 - 2 are moving the mobile scaffolding one is using a wooden handle to try and pry out insulation from the corner between the metal studs. 8 workers along the west wall doing detail cleaning.

1100-1145 Workers break for lunch and return to work.

1200 PBS is microvac sampling the 266 contents in the 168-cleaning room.

1330 Four holes have been cut (from the exterior) into the base of the skybridge between Olympic South and Olympic North. The remaining 2 holes will be cut Monday (2/21) morning.

Level 1: Twelve workers continue with gypsum wallboard removal, floor grinding, wall cavity cleaning, and loading Megaboxes throughout the floor.

Level 2: Eight workers continue to detail clean wall cavities and framing, and flooring in the enclosure. 6 workers on mobile scaffolding continue to clean the wall cavities in the music rooms (283/284).

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS meets with MM (Dan) – Look at exterior transformer between Olympic South and Olympic North discuss potential impacts if microvac samples of unit are positive.

1530 PBS and MM depart the site – building is secure, and generators are shut down.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith

Date: 2/18/22



Date: 2/21/22

| 0Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|--|-------|--|---|---------------------------------|------------------------|-------------------|--------|----|
| PBS Site Observer(s): Mike Smith, Peter Stensland, Toan Nguyen | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 2/21/22 | | | |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nnel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status | Demo/Abatement/Lo | oadout | |
| Workers Yes No Name: Corey Foust | | | | Level 2: Demo/Abatement/Loadout | | | | |
| How Many? + 27 | | • | | | Level 3: No work occur | ring | | |
| Air Monitoring Personnel on site: PBS/Dickson | | Other Personnel on Site: MacDonald Miller (MM) | | | | | | |

WORK DESCRIPTION: Level 1: Continued GWB & conduit demolition and loading Mega-boxes. Level 2: Continued detail cleaning of fireproofing and wall framing in Rooms 283/284, grinding residual floor mastic via Terminator, HEPA vacuuming, and loading Mega-boxes. Level 3: No work.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

information is correct and accurate.

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 PBS verifies that the sink from room 168 has been moved to Cascade 533.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0830 Level 1: One worker is removing fiberglass insulation pipes in the ECE kitchen. 2 workers are preparing to line poly sheeting in Mega-boxes. 2 workers are removing fiberglass insulation and wall finishes from walls in Room O180. 1 worker is on a lift removing conduits overhead throughout the level.

Level 2: Two workers on scaffolding, using water, rags and HEPA vacuums to detail clean metal wall studs. 2 workers on the ground with HEPA vacuum cleaning dust from concrete floor. 1 worker on the ground with water and rags to detail cleaning wall studs in Room O284. 2 workers on scaffolding using water, rags and HEPA vacuums to detail clean structural beams. 1 worker on a ladder using water and rags to clean metal wall studs in Room O283. 2 workers by Room O275, using water, rags and a HEPA vacuum to clean metal wall studs. 3 workers by Room O261 office spaces using water, scrape tools, and rags to detail clean metal wall studs and sprinkler lines.

0900 PBS visually inspects and microvac samples artwork from Room 261 in the 168-cleaning room.

0930 Dickson has completed cutting the 6 additional investigation holes in the skybridge floor underdeck between the Olympic North and Olympic South Buildings.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1 & 2 | Olympic South Levels 1 & 2 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| The individual signing certifies that the above | Signature: Methol with |

Name: Mike Smith



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/21/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1000 Level 1 - Two workers by O169 office space using floor grinder (PDG 6000) to remove mastic from concrete floor. 2 workers are wrapping debris in poly sheeting and placing it in a plywood box. 1 worker is on a lift to cut fire alarm conduit

Level 2 - Three workers are using rags, water and a HEPA vacuum to detail clean walls studs, structural beams and sprinkler lines. 2 of the 3 are on scaffolding cleaning hard to reach surfaces in Room O284. 3 workers are using rags, water and a HEPA vacuum to clean metal wall studs and structural beams. 1 of 3 is on a ladder, 1 on the ground, and 1 on scaffolding in Room O283. 2 workers by Room O264 using rags, water and a HEPA vacuum to clean metal wall studs. 1 worker is using a HEPA vacuum to remove dust from concrete floor. 3 workers are by O261 office spaces, 1 is on mobile scaffolding and cleaning sprinkler lines with rags and water, 1 worker on a ladder cleaning metal wall studs with rags and water, 1 worker using scrape tool to remove sticky residuals from window frames.

1030-1115 Workers break for lunch and return to work.

1120 Corey F. questions status of 2 hot water tanks in Level 1

1200 PBS collects 5/6 microvac samples from the underside of the skybridge with Corey.

1320 Level 1: One worker using Sawzall to cut demolition debris into smaller pieces by O168. 1 worker on lift remaking conduits. 1 worker by elevator room removing gypsum wallboard. 1 worker using drill to remove some concrete. 2 workers using PDG6000 to remove mastic on concrete. 1 worker on terminator to remove carpet residuals. 2 workers lining Mega-boxes with poly sheeting. 8 workers were observed in the space. 7 negative air machines are currently running on the level.

Level 2: Three workers are using rags, water and a HEPA vacuum to clean metal wall studs and structural beams. 2 workers are on scaffolding and 1 is on a ladder in Room O283. 3 workers are on scaffolding using rags, water and a HEPA vacuum to clean metal wall studs and structural beams. 1 worker is building wooden safety rails around the elevator shaft. 2 workers cleaning metal wall studs by Room O264. 13 workers were observed in the space. 13 negative air machines are currently running on the level.

1350 PBS Project Manager Gregg M advises OK for Dickson to demolish 2 hot water tanks on Level 1.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1515 PBS departs the site for the day. Building secure, Generator's shutdown.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith

Date: 2/21/22



| Asbestos Contractor: Di | ckson | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---------------------------------------|---|--------------------------|------------|--|---|------------------------|--------|----|--|
| PBS Site Observer(s): Mil Middaugh | PBS Site Observer(s): Mike Smith, Peter Stensland, Toan Nguyen, Gregg Middaugh | | | PBS Project No.: 40535 DES Project No.: 2021- | Date: 2, | Date: 2/22/22 | | | |
| | | | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Persor | nnel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status | : Demo/Abatement/Lo | oadout | | |
| Workers | Yes | Yes No Name: Corey Foust | | Level 2: Demo/Abatement/Loadout | | | | | |
| How Many? + 29 | | | | | Level 3: No work occur | ring | | | |
| Air Monitoring Personnel | on site: PBS/Di | icksor | า | | Other Personnel on Sit | e: MacDonald Miller (I | MM) | • | |

WORK DESCRIPTION: Level 1: Continued GWB & conduit demo & loading Mega-boxes. Level 2: Continued detail cleaning of fireproofing and wall framing in Rm's 283/284, grinding residual floor mastic via Terminator /and Grinder, HEPA vacuuming, and loading Mega-boxes.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0740 Level 1: Eight workers observed. 2 workers are by the former office spaces using the PDG6000 floor grinder and HEPA vacuum to remove yellow carpet mastic. 1 worker in ECE restroom using electric chisel to remove mortar bed associated with ceramic tile. 2 workers by Room O168 lining Mega-boxes with poly sheeting. 1 worker on scissor lift removing wires and conduits throughout. 1 worker by the elevator removing gypsum wallboard manually with hand tools, wet methods were observed during the wallboard demolition. 7 negative air machines are running on this level.

Level 2: One worker by Room O275 using a HEPA vacuum to clean and remove dust from metal wall studs. 2 workers on mobile scaffolding using scrape tools to remove adhesive residuals from ceiling. 2 workers on mobile scaffolding with HEPA vacuums, rags, and water to clean metal wall studs by Music department offices. 2 workers on scaffolding with rags and pressure washer to detail clean structural beams and pan decking in Room O283. 1 worker by mechanical mezzanine using scrape tools to detail clean piping. 4 workers on scaffolding with rags, water, and HEPA vacuums to detail clean metal wall studs, structural beams, and pan decking in Room O284. 13 negative air machines are running on this level.

1010 Level 1: Eight workers continue work as previously noted.

Level 2: One worker by the elevator building safety railings at elevator shaft. 3 workers are using HEPA vacuums to clean concrete floor throughout. 3 workers on scaffolding and ladders with rags and water to clean metal wall studs. 3 workers

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1 & 2 | Olympic South Levels 1 & 2 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Mchall mid

Name: Mike Smith Date: 2/22/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/22/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

on scaffolding with rags, water, and HEPA vacuums detail clean metal wall studs, structural beams and pan decking in Room O283. 3 workers on scaffolding with rags, water and, vacuum to detail clean metal wall studs, structural beams and pan decking in room O284.

Skybridge to Olympic North Building: 3 workers on ladders with rags, water and, vacuum to detail clean metal wall studs.

1030 PBS project manager, Gregg Middaugh on site.

1030-1115 Workers break for lunch and return to work.

1240 Level 1: Two workers are by the former office spaces using the PDG6000 floor grinder and HEPA vacuum to remove yellow mastic. 1 worker by the ECE drive thru using an electric chisel continues to remove mortar bed. 2 workers are by Room O168 lining Mega-boxes with poly sheeting. 1 worker on scissor lift removing wires, air ducts, and conduits throughout.

Level 2: One worker continues installing fall protection barrier around the elevator shaft. 6 workers using rags, water and HEPA vacuums to detail clean concrete wall.

1340 Level 2: Six workers split between Room 283 and 284 continue detail cleaning ceiling components. 1 worker on the ground supervising in Room 0283.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS departs the site. Corey will secure building and shut down generators.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Michal Amir

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date: 2/22/22



| Asbestos Contractor: Die | ckson | | | Project Name: Olympic South Abatement & Repairs | | | |
|--|--------------------------|------------|--|---|------------------------|---------------|--|
| PBS Site Observer(s): Mike Smith, Peter Stensland, Toan Nguyen | | | PBS Project No.: 40535 DES Project No.: 2021- | Date:2/23/2 | | | |
| | | | | Page 1 of 2 | Time | 0600 ar | |
| Contractor on Site Persor | inel: | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status | : Level 1: Demo/Abate | ement/Loadout | |
| Workers | Yes No Name: Corey Foust | | Level 2: Demo/Abatement/Loadout | | | | |
| How Many? + 29 | | | | Level 3: No work occur | ring | | |
| Air Monitoring Personnel | on site: PBS/Dickso | n | | Other Personnel on Sit | e: MacDonald Miller (I | MM) | |

WORK DESCRIPTION: Level 1: Continued GWB & conduit demo, demo elevator shaft, & loading Mega-boxes. Level 2: Continued detail cleaning of fireproofing and wall framing in Rm's 283/284, grinding floor mastic, HEPA vacuuming, and loading Mega-boxes.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site. One worker moving ACM Megaboxes on pallets from the ECE east loadout to the ACM dumpster in Parking Lot A. 1 additional worker is in Parking Lot A lining new containers with poly sheeting.

0730 Level 1: Eight workers observed. 2 workers are using the PDG6000 floor grinder, hand grinder and HEPA vacuum to remove residual mastic near the containment entrance in the northeast area. 1 worker with a Sawzall removing 2 water heaters from Mechanical Room. 1 worker on a scissor lift removing metal brackets and conduits throughout. 1 worker using Sawzall to cut and remove elevator wallboard (wet methods observed). 2 workers lining Mega-boxes with poly sheeting and loading demolition debris into the boxes. Floor supervisor in the area. 6 negative air machines are running on this level.

0800 Level 2: Thirteen workers observed. 1 worker at elevator shoveling wallboard for disposal. 1 worker using hand tools to detail clean floor mastics in the restrooms. 3 workers with hand tools, rags, and water to remove residual mastic at base of columns throughout. 2 workers removing foam at the perimeter of the room, removing all debris trapped at the perimeter, using HEPA vacuums and hand tools in Room O284. 1 worker on scaffolding detail cleaning metal wall studs with HEPA vacuum, rags, and water. 2 workers on scaffolding in between O283 and O284, with HEPA vacuum, rags, and water to detail clean structural beams and pan decking. 2 workers are removing Styrofoam at the perimeter of the room,

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1 & 2

1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature: Mchall mide

Name: Mike Smith Date: 2/23/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/23/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

removing all debris trapped at the perimeter, using HEPA vacuums and hand tools. 1 worker on scaffolding with a HEPA vacuum, rags, and water to detail clean structural beams and pan decking Room O283. 13 negative air machines running on this level.

1030-1115 Workers break for lunch and return to work.

1100 PBS verifies that the school has picked up a portion of the rolling sheet music shelves stored in a Connex in Parking lot A. Three shelves remain in connex 4.

1200 Dickson moves two tables previously from Room 168 from the connex to the skybridge doorway for pickup as requested by the College.

Level 2: Three workers with rags, water and hand tools removing residual non-acm cove base mastic at columns throughout the space. 1 worker at the restrooms detail cleaning mastic on plumbing. 1 worker on scaffolding removing residual adhesive at ceiling throughout. 5 workers are on scaffolding with rags, water, and HEPA vacuums to detail clean metal wall studs, structural beams and pan decking. 3 workers on the ground with rags, water, and vacuum to detail clean metal wall studs and crevices at the perimeter of the space Room O283. 1 worker at the in between space of O283 and 284 with a grinder to remove metal brackets on the wall. 2 workers are bagging foam and debris within the crevices at the perimeter of the room into ACM waste bags in Room O284.

1215 Level 1: Three workers are shoveling elevator debris into mega box, 1 worker with a Sawzall dismantling the elevator. 2 workers are building a "clean room" with poly sheeting at Room O180. 2 workers using PDG6000 and HEPA vac to remove residual mastic on concrete floor. 3 workers are bagging demolition debris into ACM waste bags.

1300 Dickson drops off the Rm 264 blue printing press from connex to the maintenance building as requested by college. PBS photo documents item returned in parts as requested.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS departs the site. Corey still on site and will secure site and shut down generators.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Michal Amst

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date: 2/23/22



Date: 2/24/22

| Asbestos Contractor: Di | ckson | | | Project Name: Olympic South Abatement & Repairs | | | |
|---------------------------|--|--------------------------|---------------|---|------------------------|---------------|----|
| PBS Site Observer(s): Pet | PBS Site Observer(s): Peter Stensland, Cameron Budnick | | | PBS Project No.: 40535. DES Project No.: 2021- | Date: 2/ | Date: 2/24/22 | |
| | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Persor | nel: | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status: | Level 1: Demo/Abate | ment/Loadout | : |
| Workers | Yes No | Yes No Name: Corey Foust | | Level 2: Demo/Abatement/Loadout | | | |
| How Many? + 28 | | | | Level 3: No work occur | ring | | |
| Air Monitoring Personnel | on site: PBS/Dickso | า | | Other Personnel on Site | e: MacDonald Miller (N | MM) | |

WORK DESCRIPTION: Level 1: Continued grinding of floor mastic, load Mega-boxes, detail clean throughout. Level 2: Continue detail cleaning in Music rooms 283/284, HVAC demolition, and loading Mega-boxes.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

OBSERVATIONS: 0600 Dickson and MM workers are having th

METHOD OF REMOVAL: wet methods manual and saws

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site. One worker moving Mega-boxes on pallets from the ECE east loadout to the ACM dumpster in Parking Lot A. 1 additional worker is in Parking Lot A lining new containers with poly sheeting.

0820 Level 1: One worker grinding mastic off stairs by former kitchen. The grinding is being done with a grinder equipped with a HEPA vacuum attachment. 3 workers helping load waste into bins which are then being bagged and taped. 1 worker cleaning steel column. 2 workers scraping caulking off 2 concrete columns on the west wall. 1 worker is grinding mastic off the floor in the central area. 1 worker is misting down surfaces.

0830 Level 2: Three workers in Room 283 vacuuming and wiping down the ceilings and walls. 1 worker in Room 284 is HEPA vacuuming dust from floor, 1 worker is sweeping debris on floor and the 3rd worker is cutting studs for removal. 1 worker is scraping cove base mastic from the east wall in the main floor area. 1 worker is loading materials onto the second floor.

1030-1115 Workers break for lunch and return to work.

information is correct and accurate.

| ITEMS OF CONCERN: None | |
|---|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1 & 2 | Olympic South Levels 1 & 2 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| The individual signing certifies that the above | Signature: Pata Steward |

Name: Peter Stensland



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/24/22 |
|---|-------------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1130 Level 2: One worker scraping cove base mastic on the west wall. 3 workers in Room 284 cleaning out the cavity between the wall and floor and wet wiping the ceiling. 4 workers in Room 283 readjusting the scaffolding and removing a portion of the ducting at the ceiling.

1140 Level 1: Three workers cleaning up drywall and stud debris from the base of the stairs. 2 workers in the cleaning room getting ready for load out- final vacuum and clean. 1 worker grinding mastic off floor. 1 worker removing caulk off west wall. 3 workers bringing in additional negative air machines. 1 worker continues grinding stairs adjacent to kitchen.

1300 PBS confirms that the remaining music shelves and jazz plaques have been picked up by the college from connex 4.

1330 Dickson moves the 16 tables from 168 from the connex to the hall near C512 in Cascade as requested by college. La Mae is picking up a waste container from parking lot A.

PBS vacates the site for a mandatory meeting in the Seattle office. Corey/MM will be responsible for site security and generator shutdown.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Pota Stundar

The individual signing certifies that the above information is correct and accurate.

Name: Peter Stensland

Date: 2/24/22



| Asbestos Contractor: Di | ckson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---------------------------|--------------------|---------------------------------|-----------|--|------------------------|--------------|------------|--|
| PBS Site Observer(s): Mik | ce Smith, Peter St | ensland, Cameror | n Budnick | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | e: 2/25/22 | |
| | | | | Page 1 of 3 | Time | 0600 | am | |
| Contractor on Site Persor | nnel: | | _ | _ | | | | |
| Project Manager | Yes N | o Supervisor | Yes No | Summary Phase Status: | Level 1: Demo/Abate | ement/Loadou | t | |
| Workers | Yes N | /es No Name: Corey Foust | | Level 2: Demo/Abatement/Loadout | | | | |
| How Many? + 30 | | | | Level 3: No work occurr | ring | | | |
| Air Monitoring Personnel | on site: PBS/Dick | son | | Other Personnel on Site | e: MacDonald Miller (I | MM) | | |

WORK DESCRIPTION: Level 1: Continued grinding of floor mastic, load Mega-boxes, detail clean throughout. Level 2: Continue detail cleaning in Music Rooms 283/284, caulking/sealing removal, and loading Mega-boxes.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site. One worker moving ACM Megaboxes on pallets and labeled ACM bags from the ECE east loadout to the ACM dumpster in Parking Lot A. 1 additional worker is in Parking Lot A lining new containers with poly sheeting.

0730 Level 2: Two workers in the main floor area HEPA vacuuming around the wall cavities and at the base of metal structural columns. 2 workers in Room 284; 1 wet wiping the ceiling and the other is removing caulking from concrete floor. In Room 283 1 worker is removing caulk from between a CMU wall and flooring. 2 workers are removing caulking on the concrete columns. 3 workers wet wiping the ceiling above the mechanical mezzanine. 10 workers observed on this level.

0800 Level 1: Two workers cleaning up debris around the elevator shaft. 1 worker cleaning debris off the stairs going down to Level 1, wet methods observed. 1 worker is misting down debris. 2 workers are removing the HVAC duct on the west wall and 1 worker is removing drywall on the adjacent south wall. 1 worker is assisting drywall demolition. 1 worker HEPA vacuuming wall cavities on the east wall. 1 worker is removing mastic from a column just outside the former Electrical Room. 1 worker is sweeping floor for dust and debris wet methods observed. 1 worker scraping residual mastic by hand from the floor by loadout. 1 worker is moving bagged (ACM bags) and (ACM labeled) taped mega boxes to

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1 & 2

1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 2/25/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/25/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

loadout. 1 worker is grinding mastic off the stairs adjacent to the kitchen. 1 worker is using the grinder in the NW section of the floor. 15 workers observed on this level.

1000 Two workers in the cleaning room bagging and doing final detail cleaning of contents before they are loaded out into a Conex for storage. Dickson is going to demo the cleaning room, the large printer and documents waiting to be scanned have been moved into a newly created poly bubble by the old 181 doorway. All contents to be returned are being moved to connexs in Parking lot A for storage until they are returned.

1030 PBS conducts a smoke test of the second floor, placing the smoke candles on the north side of the building and observing. Some smoke lingering in second floor area. Dickson brought in two additional negative air machines after lunch to improve air circulation within containment.

1030-1115 Workers break for lunch and return to work.

1130 Level 1: One worker continues using a powered hand grinder (w/HEPA vacuum attachment) to remove mastic from the short flight of stairs adjacent to the kitchen. 1 worker is removing the lighting fixtures just off the SE wall. 1 worker is cutting studs on the S wall. 2 workers are using the terminator to remove carpeting and expose mastic. 1 worker is spraying the general area to mitigate dust and debris from drywall removal. 1 worker is HEPA vacuuming debris out of the wall cavity along the S wall. 1 worker is HEPA vacuuming dust left over from the push-grinder in the S corner of the floor. 3 workers are wrapping the vending machine in poly sheeting. Floor lead walking through area. 12 crew observed on this level.

1155 Level 2: Two workers are cutting apart the frame for the elevator at the top of the Level 1 elevator shaft. 1 worker is wiping down the fire sprinkler lines near the W wall. 1 worker wiping down the fire sprinkler lines in the SW corner of the level. 1 worker is wiping down the fire sprinkler pipes in the former art room by the remaining sink. 1 worker continues removing caulking from the concrete floor in 284 and another continues removing caulking on concrete columns against the S wall. 1 more worker is removing studs on the W wall. 3 workers are wet wiping the ceiling in Room 283. 1 is running the extension cables for the crew on scaffolding and another worker is hanging lights on the S wall.

1330 Level 2: One worker is HEPA vacuuming mastic debris from around the metal structural column closest to the east containment entrance. 1 worker is readjusting the barriers around the open elevator shaft. In Room 284, 1 worker is using a reciprocating saw to remove caulking from the concrete floor. 1 worker is HEPA vacuuming debris from the removed caulking. 1 worker is bagging dirty pre filters from the negative air machines. In Room 283, 2 workers are HEPA vacuuming and scooping up wet debris removed from the ceiling. 1 worker is wet wiping the ceiling to remove dust. 1 worker is continuing removal of the sealing on a concrete piling against the east wall. 1 worker is on the mezzanine and is removing leftover insulation.

Signature: Michael mit

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date: 2/25/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/25/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 3 of 3 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Level 1: One worker is cutting structure at the base of the open elevator shaft. 1 worker vacuuming dust and debris from the S wall. 1 worker hand scraping mastic from E wall at the loadout. 1 worker is W of loadout using the push-grinder. 1 worker cleaning up debris from the drywall removal. 1 worker spraying water on drywall debris. 3 workers loading up a plywood box with debris for removal. 2 workers are floating around, generally assisting. 1 more worker is cleaning up dust behind the push-grinder.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 PBS and Workers off site for the day. Dickson/MM will secure site and shutdown generators.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith Date: 2/25/22



| Asbestos Contractor: Dic | kson | | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|----------------|---------|---|-----------|----------|---|---------------------|--------------|------|--|
| PBS Site Observer(s): Claire Tsai, Peter Stensland | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 2/ | Date: 2/28/22 | | | | |
| | | | | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Person | nel: | | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: Level 1: Demo/Abatement/Loadout | | | | |
| Workers | Yes | No | Name: Core | y Foust | | Level 2: Demo/Abatement/Loadout | | | | |
| How Many? + 22 | | | | | | Level 3: No work occurring | | | | |
| Air Monitoring Personnel | on site: PBS/[| Dicksor | ı | | | Other Personnel on Site: Mac | :Donald Miller (N | MM) | | |
| WORK DESCRIPTION: Le | vel 1: Continu | ıe floo | r mastic remov | al, clean | wall fra | ming, & remove elevator hydrau | lic fluid. Level 2: | Continued de | tail | |
| cleaning on walls/floors, r | | | | | | | | | | |
| | | | | | d hat | | | | | |

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0740 Level 1: One worker along the southern ECE wall doing detail residual floor mastic grinding below the windows (worker sprayed down the area periodically during grinding). 3 workers wrapping and loading out metal debris from the elevator by the loadout area. 1 worker on a scissor lift removing wires from the Room168 ceiling. 1 worker on a terminator removing carpet and carpet mastic, one worker is wrapping up the bulk mastic. 1 worker cutting metal sections from the elevator with a Sawzall.

Level 2: One worker is wet wiping concrete columns. 1 worker covering holes in the wall with poly sheeting by the decon door. 1 worker in Room 283A doing general housekeeping. 4 workers in Room 284; 2 on mobile scaffolding wetting down the beams and cleaning the metal studs along the wall. 1 worker is using a Sawzall to remove the foam from between the concrete floor sections. 1 worker is using a squeegee to move the water away from the cracks in the floor (which are stuffed with rags). 1 worker is going throughout the floor changing out the negative air prefilters.

1000 Level 2: Five workers in Room 284; 3 on mobiles scaffolding HEPA vacuuming between the wall studs, 1 is cleaning out the foam from between concrete slab sections, 1 worker is attaching fresh razor blades to paint scrapers. 1 worker in the mechanical mezzanine on mobile scaffolding HEPA vacuuming the steel beams, one worker in Room 283A is HEPA vacuuming between the metal studs in the east wall. 1 worker is using a broom and dustpan collecting "Clean Sweep" to

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1 & 2

1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai

Name: Claire Tsai

Date: 2/28/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 2/28/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

fine clean the concrete floor along the east wall. 1 worker is HEPA vacuuming the concrete floor along the west wall. 3 workers are by and/on the stairs removing GWB and fiberglass insulation with a prybar. The area is periodically misted down with water.

Level 1: One worker measuring out poly sheeting to line the wooden loadout box with. 1 worker using a large HEPA equipped grinder to clean the concrete floor by the loadout area. 1 worker using a handheld grinder (W/HEPA vacuum attachment) to do grinding along the ECE stairs. 1 worker in the southeast corner on a scissor lift razor scraping the ceiling metal studs. 1 worker is draining the hydronic fluid from the elevator machinery into a 55-gallon metal drum. 1 worker is placing poly sheeting underneath the grate in the bottom of the elevator shaft.

1030-1115 Workers break for lunch and return to work.

1130 One fuel truck operator refueling the diesel generator and fuel cube.

1200 Three PCI workers assembling scaffolding between Olympic South and Olympic North underneath the sky bridge.

1300 PBS collects microvac samples from items stored in the Conex.

1400 PBS collects consultant air sampling started earlier in the day.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS departs the site. Corey/MM will secure building and shutdown generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Claure Tsai

Name: Claire Tsai

Date: 2/28/22



| sor Yes No | PBS Project No.: 40535 DES Project No.: 2021- Page 1 of 2 | | Date: 3/ | 1/22 am |
|-------------------|---|---|--|---|
| or Yes No | | Time | 0600 | am |
| or Yes No | | | | |
| or Yes No | | | | |
| | Summary Phase Status | :: Level 1: Demo/Abate | ment/Loadout | |
| Corey Foust | Level 2: Abatement/Lo | adout | | |
| How Many? + 18 | | | | |
| | Other Personnel on Sit | e: MacDonald Miller (N | MM), PCI | |
| | aming, & elevator shaft der | molition. Level 2: Conti | nued detail | |
| v boots, hard hat | | | | |
| | | Level 3: No work occur Other Personnel on Site emoval, clean wall framing, & elevator shaft der | Level 3: No work occurring Other Personnel on Site: MacDonald Miller (Notes and Notes | Level 3: No work occurring Other Personnel on Site: MacDonald Miller (MM), PCI emoval, clean wall framing, & elevator shaft demolition. Level 2: Continued detail load out. |

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0740 Level 1: Two workers wiping down tools and supplies for loadout. 1 worker outside containment receiving the equipment. 1 worker grinding mastic on the concrete floor in Room 168. 2 workers in the old elevator shaft area removing conduit and excess metal from the roof.

Level 2: One worker at the top of the elevator shaft scraping caulking off the ceiling with a razor blade. 5 workers in Room 284; 3 are on mobile scaffolding cleaning between the metal studs, 1 is on the ground using "Clean Sweep" to pick up dust, and 1 worker is using a razor blade and HEPA vacuum to clean out the cavity between concrete slabs. 2 workers in Room 283 squeegeeing and scooping water / debris into an ACM bag. 1 worker bagging contents on the north side of the floor for disposal.

0930 3 contractors along with Pierce College personnel are reviewing the new metal cladding and removing some panels from the east side of the building.

0950 Level 2: Three workers in Room 284; 2 on mobile scaffolding wet wiping and HEPA vacuuming the steel beams and 1 worker is HEPA vacuuming the crack along the CMU wall. 4 workers in the mechanical mezzanine wet wiping and HEPA

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

Asbestos contaminated building materials from Levels 1 & 2

1 full 40 CY container (ACM bags and wraps) removed from site today

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 3/1/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/1/22 |
|---|--------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

vacuuming between the studs. 1 worker HEPA vacuuming out the bottom of the columns (on top of the poly sheeting dividing the first and second level). 2 workers in the skybridge wet wiping the windows and recovering them with poly.

1030-1115 Workers break for lunch and return to work.

1130 Four PCI workers are assembling scaffolding underneath the skybridge between Olympic North and Olympic South.

1230 Level 1: 4 workers on the south side of the floor; 1 is using a HEPA equipped grinder to remove floor mastic, 1 is using a terminator to remove bulk floor mastic in the loadout area, 1 is helping to pull poly sheeting out of the way of the terminator, and one is doing general housekeeping. 1 worker under the stairs removing GWB and fiberglass insulation.

Level 2: One worker at the top of the elevator shaft on mobile scaffolding using a wire brush to clean between the studs. 4 workers in Room 284; 2 on mobile scaffolding wet wiping and HEPA vacuuming the metal ceiling beams and 2 workers scraping and HEPA vacuuming the metal studs. 3 workers in the mechanical mezzanine wet wiping and HEPA vacuuming the metal wall studs. 2 workers doing detail cleaning on the restrooms.

1400 PBS collects the consultant air samples outside of the containments.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS departs the site. Corey still on site and will secure site and shut down generators Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date: 3/1/22



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|-------|----|---|---|----------------------------|-----------------------|-------------|----|
| PBS Site Observer(s): Claire Tsai, Peter Stensland, Gregg Middaugh | | | PBS Project No.: 40535 DES Project No.: 2021- | | Date: 3/ | /2/22 | | |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Persor | nnel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status | : Level 1: Demo/Abate | ment/Loadou | t |
| Workers Yes No Name: Corey Foust | | | | Level 2: Detail cleaning/Loadout | | | | |
| How Many? + 20 | | | | | Level 3: No work occurring | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Other Personnel on Site: MacDonald Miller (MM), PCI | | | | | |

WORK DESCRIPTION: Level 1: Continued detail cleaning throughout the floor & loading Mega-boxes. Level 2: Continued detail cleaning of fireproofing and wall framing in Rm's 283/284, grinding floor mastic, HEPA vacuuming, and loading Mega-boxes.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site. One worker moving ACM Megaboxes on pallets from the ECE east loadout to the ACM dumpster in Parking Lot A with forklift. 1 additional worker is in Parking Lot A lining new containers with poly sheeting.

0800 Level 1: One worker on a scissor lift wet wiping piping. 2 workers HEPA vacuuming the bottom of the elevator shaft. 4 workers on the south side of the floor wet wiping pipes and metal studs.

Level 2: Four workers in Room 284; 1 is sweeping the floor and 3 are detail cleaning on the steel roofing beams and metal wall studs (wet wiping and HEPA vacuuming). 4 workers in Room 283 wet wiping and HEPA vacuuming between the studs. 1 worker doing detail cleaning underneath the poly sheeting separating level 1 and level 2 in the shaft. 1 worker wet wiping and HEPA vacuuming the restroom metal studs. 1 worker in Room 266 wet wiping the metal studs on mobile scaffolding.

0830 PBS project manager Gregg M on site.

0900 Five PCI workers setting up the scaffolding underneath the skybridge between Olympic north and Olympic south.

1000 PBS is doing a walkthrough of Level 1 and Level 2.

| ITEMS OF CONCERN: None | |
|---|-------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1 and 2. | Olympic South Levels 1 and 2. |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claire Tsai

Date: 3/2/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/2/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1030-1115 Workers break for lunch and return to work.

1300 Level 1: One worker misting down the work area with water. 1 worker scraping concrete columns with a razor scraper. 1 worker on a scissor lift wet wiping the ceiling. 2 workers doing general housekeeping. 1 worker wet wiping the piping on a scissor lift across from the elevator. 1 worker HEPA vacuum the floor in Room 168.

Level 2: Three workers inside Room 284; 2 on mobile scaffolding wet wiping and HEPA vacuuming the pan decking and 1 worker is HEPA vacuuming along the cracks in the floor. 2 workers in Room 283; 1 is doing general housekeeping and 1 is razor scraping the concrete pillar. 1 worker cutting out foam from the floor along the west wall. 2 workers HEPA vacuuming the metal studs along the north wall. 1 worker HEPA vacuuming between the metal studs on the stairs.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS departs the site. Corey/MM will secure building and shutdown generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: // Sui

Name: Claire Tsai

Date: 3/2/22



| Asbestos Contractor: Dickson | | | | | | Project Name: Olympic South Abatement & Repairs | | | |
|--|---|----------------------------|---|---|----------------------------|---|------------------------|-------------|----|
| PBS Site Observer(s): Claire Tsai, Peter, Stensland, Toan Nguyen | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 3/ | | | /3/22 | | |
| | | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Perso | nnel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: | Level 1: Demo/Abate | ment/Loadou | t |
| Workers | Yes No Name: Corey Foust | | | | | Level 2: Detail cleaning/Loadout | | | |
| How Many? + 23 | | | | | Level 3: No work occurring | | | | |
| Air Manitania a Danasa | ol on cito: DRC/D | icksoi | 1 | | | Other Dersennel on City | . MacDonald Millor (N | 41.41) | |
| Air Monitoring Personne | ei on site. Fb3/D | ricksoi | | | | Other Personnel on Site | e. MacDonaid Miller (N | /11V1) | |
| WORK DESCRIPTION: L | evel 1: Continu | ed de | ail cleaning th w skybridge be | etween | Olympic | or. Level 2: Continued deta | | | |
| WORK DESCRIPTION: 1 | evel 1: Continu | ed de | ail cleaning th w skybridge be | etween | Olympic | or. Level 2: Continued deta | | | |
| WORK DESCRIPTION: L | _evel 1: Continu olding/enclosure I: ½ face respira | ed de e belo tor, Ty | ail cleaning th w skybridge bo wek, safety bo | etween | Olympic | or. Level 2: Continued deta | | | |

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building or the adjacent north skybridge. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 PBS observing scaffolding containment underneath the skybridge. Corey discussing plan for the containment. 5 workers are loading supplies onto the mobile scaffolding. 2 workers are managing equipment outside of the building containment managing equipment and bringing supplies to other workers.

0715 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0745 Level 1: One worker HEPA vacuuming around the column in the SW corner. 1 worker on a scissor lift razor scraping caulking on the ceiling in Room 168. 3 workers inside the elevator shaft drilling a hole through the lifting piston to remove it with their makeshift crane (a large beam over the shaft with a chain pulley system).

Level 2: One worker razor scraping leveling compound from the concrete floor on the hallway ramp. 2 workers HEPA vacuuming and wet wiping along the top of the HVAC system in the skybridge. 1 worker removing the poly sheeting wall between the music rooms and the rest of the floor. 1 worker using a razor blade scraper on the mechanical mezzanine floor. 4 workers in Room 284; 2 are on mobile scaffolding wet wiping pipes and 2 are on the ground doing detail cleaning along the pipes and metal wall studs. 1 worker in Room 283 is moving around lighting.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 1 & 2 | Olympic South Levels 1 & 2 |
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The individual signing certifies that the above information is correct and accurate.

Signature: Claure Town

Name: Claire Tsai

Date: 3/3/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/3/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0900 PBS visually performs visual inspection requested by Corey of Level 2 and makes a punch list of items that needs to be cleaned. PBS mark areas in need of additional cleaning with sharpie notes on tape at locations identified

1030-1115 Workers break for lunch and return to work.

1100 Dickson Project Manager Todd Larson on site.

1130-1200 PBS walks though level 2 to review punch list items with Dan (MM), Corey and Todd (Dickson).

1345 Level 1: One worker doing general housekeeping on the south side of the building. 1 worker cutting out metal hangers in the Mechanical Room. 2 workers misting down and HEPA vacuuming the floor around the elevator.

Level 2: Five workers inside Room 284; 2 are on mobile scaffolding wet wiping the steel beams and three are on the ground wet wiping and HEPA vacuuming between the studs. 2 workers in the mechanical mezzanine wet wiping between the studs. 1 worker cutting out foam in the concrete floor with a Sawzall and chisel. 2 workers in the west skybridge wet wiping above the windows.

1400 PBS is collecting consultant air samples throughout the site that were initiated this morning.

1400-1500 Weekly construction meeting with project team.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 PBS leaves for the day. Corey and Dan will shut down generator secure the site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Claure Tsai Name: Claire Tsai

The individual signing certifies that the above information is correct and accurate.

Date: 3/3/22



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|--|-------------|--------|--|---|--------------|------------------------------|----------------------|---------------|----|
| PBS Site Observer(s): Mike Smith, Peter Stensland, Toan Nguyen | | | PBS Project No.: 40535.4 DES Project No.: 2021-19 | Date: 3/ | Date: 3/4/22 | | | | |
| | | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Personnel | : | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: I | evel 1: Demo/Abate | ment/Loadou | t |
| Workers Yes No Name: Corey Foust | | | | Level 2: Detail Clean/Loa | dout | | | | |
| How Many? + 21 | | | | Level 3: No work occurring | | | | | |
| Air Monitoring Personnel on | site: PBS/D | icksor | 1 | | | Other Personnel on Site: | MacDonald Miller (N | MM) | |
| | | | | | | | | | |
| WORK DESCRIPTION: Level | 1: Continu | ed det | ail cleaning th | roughou | t the flo | or. Level 2: Continued detai | l cleaning throughou | ıt the floor. | |
| | | | | | | ympic South and Olympic N | | | |

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0730 Level 1: Two workers wet wiping supplies and tools for loadout. 1 worker in the Mechanical Room grinding off hangers from the ceiling. 1 worker in a scissor lift wet wiping the water pipes.

Level 2: Two workers wet wiping and sealing conduit in the concrete ceiling with fireproof caulking. 1 worker is loading out equipment from this level to the top of the stairway (behind the poly separation of the elevator demo area). 1 worker is HEPA vacuuming the wall studs on the northeast corner. 1 worker is on mobile scaffolding wet wiping the inside of the ceiling junction boxes. 1 worker is using a Sawzall to remove foam from between the floor concrete slabs. 3 workers in Room 284 are wet wiping the ducts and metal beams. 2 workers in Room 283; 1 is removing nails from the CMU wall and 1 is wet wiping the concrete floor of the mechanical mezzanine.

0830 Exterior: Three workers setting up containment on top of the southern scaffolding platform under the student lounge skybridge.

| BUILDING/AREA/LOCATION |
|----------------------------|
| Olympic South Levels 1 & 2 |
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The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 3/4/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:3/4/22 |
|---|--------------------------|-------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0945 Level 2: Three workers on scaffolding with HEPA vacuums, rags, and water to detail clean structural beams and pan decking. 1 worker is using an airless sprayer on mist setting to mitigate dust in Room O284. 2 workers on the ground using vacuums, rags, and water to detail clean metal wall studs in Room O283. 1 worker with Sawzall and other hand tools to remove foam at cracks on the floor throughout, then using HEPA vacuums to remove all debris. 3 workers are using scrape tools, rags, and vacuum to clean residual mastic and dust throughout.

1015 Level 1: Three workers on the level. 2 workers are shoveling debris and dust into ACM waste bags by elevator. 1 worker is using a broom to clean up dust and debris throughout the floor.

1015 Level 2: PBS observers are visually inspecting and labeling areas/ spaces where additional cleaning need to occur.

1030-1115 Workers break for lunch and return to work.

1200 PBS is collecting microvac samples from contents that have passed visual inspection.

1300 Level 2: Two workers are on ladders and scaffolding to clean sprinkler heads at Room O275. 1 worker below them cleaning the floor. 1 worker at music department offices scraping residual mastic with hand tools. 3 workers on scaffolding detail cleaning CMU walls with water, rags, and HEPA vacuums. 1 worker on the ground sweeping in Room O284. 2 workers on scaffolding detail cleaning piping and 1 worker on the ground detail cleaning in Room O283. Wet methods observed.

1315 Level 1: One worker on scissor lift with brush, rags, water, and vacuum to clean sprinklers and piping adjacent to Mechanical Room. 1 worker in Mechanical Room misting water to mitigate dust. 1 worker sweeping the floor throughout. Wet methods observed.

1345 Containment at Olympic North Skybridge is complete. 5 workers in the area. 3 workers on south containment and 2 in the north.

Two workers in the parking lot demobilizing gear onto a flatbread truck.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS leaves for the day. Corey will shut down generator secure the site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date:3/4/22



Date: 3/7/22

| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|--|--------|--|---|----------|------|----|
| PBS Site Observer(s): Cla | ire Tsai, Peter Ste | nsland | PBS Project No.: 40535 DES Project No.: 2021- | | Date: 3/ | 7/22 | |
| | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Personnel: | | | | _ | | | |
| Project Manager | Yes No Supervisor Yes No | | | Summary Phase Status: Level 1: Detail clean/Loadout | | | |
| Workers | Yes No Name: Corey Foust | | | Level 2: Detail Clean/Loadout | | | |
| How Many? + 25 | | | | Level 3: No work occurring | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Other Personnel on Site: MacDonald Miller (MM) | | | | |

WORK DESCRIPTION: Level 1: Continued detail cleaning throughout the floor. Level 2: Continued detail cleaning throughout the floor.

Complete construction of scaffolding/enclosure below skybridge between Olympic South and Olympic North -power and neg air machines installed

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

information is correct and accurate.

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0745 Level 1: Three workers wet wiping the water pipes on the south side of the building. 1 worker loading in supplies from outside containment. 2 workers on a scissor lift on the north side of the floor doing cable management for the electrical cords.

Level 2: Two workers at the top of the elevator shaft wet wiping the electrical boxes in the ceiling before filling the conduit with fire caulking. 2 workers are wet wiping the metal studs in the restroom area. 1 worker is wet wiping water pipes throughout the floor. 1 worker is wet wiping HEPA vacuums and equipment. 1 worker is removing the foam from the floor with a razor blade and HEPA vacuum. 3 workers in Room 284: 2 are HEPA vacuuming along the base of the studs and CMU wall and 1 is on mobile scaffolding removing screws from the wall. 2 workers in Room 283 HEPA vacuuming along the CMU wall that separates Rooms 283 and 283A. 1 worker in the hallway between the music rooms on mobile scaffolding using a razor scraper and HEPA vacuum to clean the wall. The music rooms are periodically misted down with an airless sprayer.

0945 Level 1: Four workers wet wiping the water pipes and metal studs on the south side of the building.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| _ N/A | Olympic South Levels 1 & 2 |
| | |
| | |
| | ρ |
| The individual signing certifies that the above | Signature: Clavice Tspai |
| | / |

Name: Claire Tsai



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/7/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Level 2: Two workers inside Room 283 are removing caulking along the edge of the mechanical mezzanine. 2 workers HEPA vacuuming around the walls between the music rooms. 4 workers in Room 284 wet wiping and HEPA vacuuming along the base of the wall and between the metal studs. 1 worker HEPA vacuuming the floor around the negative air machines. 4 workers to the west of the bathroom wiping down junction boxes, removing old tape, and filling the conduit with fire caulking. 1 worker using a wire brush to clean residue off the concrete floor at the top of the elevator shaft.

1030-1115 Workers break for lunch and return to work.

1330 PBS visually inspects the pan decking and steel beams in the music rooms to provide Dickson with observations regarding how cleaning is progressing, and which areas are in need of more attention. PBS communicates minor bulk debris present where the pan decking panels connect to each other and the crack where the pan decking meets the metal I-beams as well as settled dust on the ceiling components.

1355 Level 1: One worker refilling Hudson sprayers. 2 workers in scissor lifts wet wiping the water pipes and ceiling. 2 workers sweeping and squeegeeing the floor and doing general housekeeping in preparation for the end of the day.

Level 2: Work in 283/284 two workers change tasks (one in 283 one in 284 have shifted to detail cleaning the pan decking where is meets the top of the CMU wall) other work continues as before. One worker is wet wiping columns by the music rooms. 4 workers along the west side of the building; 2 are wet wiping the pipes and steel columns, 1 is putting fireproof caulking in conduits, and 1 is HEPA vacuuming the floor.

1410 Three workers finishing the setup of the containment underneath the skybridge between Olympic South and Olympic North (south side containment). Workers are running power cords inside and testing out negative air machines.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1420 PBS collecting consultant air sampling throughout the site started earlier today.

1430 Workers off site for the day.

PBS communicates with Corey the findings of PBS visual inspection of ceiling components in Rooms 283/284 and discussed general cleaning procedures throughout level 2 to maximize efficiency.

1445 PBS leaving site. Corey on site will secure building and shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

| Signature: Clavie Typi | |
|------------------------|--------------|
| Name: Claire Tsai | Date: 3/7/22 |

information is correct and accurate.



Date: 3/8/22

| sland | | | | | PBS Project No.: 40535 DES Project No.: 2021- | | Date: 3/ | /8/220 |
|----------------|---------------------|------------------------------------|--|---|---|---|--|---|
| | | | | | DE3 110 Ject 110 2021 | 192 | , | 0, LL0. |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| | | | | | | | | |
| Yes | No | Supervisor | Yes | No | Summary Phase Status | : Level 1: Detail clean/l | -oadout | |
| Yes | No | Name: Core | y Foust | | Level 2: Detail Clean/Lo | oadout Level 3: No wor | k occurring | |
| How Many? + 23 | | | | | Exterior: Skybridge sof | fit demo/abatement | | |
| : PBS/D | icksor | 1 | | | Other Personnel on Site: MacDonald Miller (MM) | | | |
| offit pa | nels re | emoved | - | | or. Level 2: Continued det | ail cleaning throughou | t the floor. | |
| | | | | | | | | |
| | | ls and saws | | | | | | |
| | Yes : PBS/D Continu | Yes No : PBS/Dickson Continued det | Yes No Name: Core : PBS/Dickson Continued detail cleaning th offit panels removed | Yes No Name: Corey Foust : PBS/Dickson Continued detail cleaning throughou offit panels removed | Yes No Name: Corey Foust : PBS/Dickson Continued detail cleaning throughout the flo | Yes No Name: Corey Foust Level 2: Detail Clean/Lo Exterior: Skybridge sof Other Personnel on Sit Continued detail cleaning throughout the floor. Level 2: Continued detail offit panels removed | Yes No Name: Corey Foust Level 2: Detail Clean/Loadout Level 3: No work Exterior: Skybridge soffit demo/abatement Other Personnel on Site: MacDonald Miller (No Continued detail cleaning throughout the floor. Level 2: Continued detail cleaning throughout offit panels removed | Yes No Name: Corey Foust Level 2: Detail Clean/Loadout Level 3: No work occurring Exterior: Skybridge soffit demo/abatement Other Personnel on Site: MacDonald Miller (MM) Continued detail cleaning throughout the floor. Level 2: Continued detail cleaning throughout the floor. Offit panels removed |

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0730 Two workers in east stairwell, one on the second floor skybridge and one on the first-floor landing HEPA vacuuming the floor and doing general housekeeping.

0745 Level 1: Two workers HEPA vacuuming between the metal wall studs in the southwest corner. 1 worker organizing tools throughout the floor. 1 worker elevating electrical cords throughout the floor (draping them over pipes with a scissor lift). Workers have established a new entryway into the containment through the 168 clean room.

Level 2: Four workers in Room 283; 1 is wet wiping / HEPA vacuuming the base of the CMU wall that separates Rooms 283 and 283a and 3 are on mobile scaffolding wet wiping the pan decking and steel beams. 1 worker in Room 284 wet wiping the steel beams and pan decking. 1 worker wet wiping columns on the south side of the floor. 2 workers wet wiping pipes in the middle of the floor. 1 worker filling conduits with fire caulking and attaching asbestos stickers in ceiling boxes in the north area of the floor.

South Skybridge Containment: Three workers begin soffit panel removal. The containment is under negative pressure observed by flaps being pulled in. Wet methods are being used during panel removal.

| ITEMS OF CONCERN: None | |
|---|--|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Contaminated soffit panels: South Skybridge Containment | Olympic South Levels 1, 2, & South Skybridge Containment |
| | |
| | |
| The individual signing certifies that the above | Signature: Pota Stendar |

Name: Peter Stensland



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:3/8/22 |
|---|-------------------------------|-------------|
| Abatement Contractor: Dickson | PBS Observer: Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1000 Level 1: Three workers HEPA vacuuming between the studs and detail cleaning with razor scrapers on the south side of the building. 1 worker on a scissor lift wet wiping water pipes along the west wall.

Level 2: One worker at the top of the stairs cleaning out the junction box with a razor blade and then wet wiping. 1 worker is organizing the electrical cords between spider boxes, 1 worker is bringing a fresh bag of rags to the worker at the top of the stairs on mobile scaffolding. 2 workers along the west wall wiping down water pipes and cords. 3 workers in Room 284; 1 is using an airless sprayer to reduce air-born particulate in the work area and 2 workers are doing general housekeeping. Three workers in 283; 2 on mobile scaffolding wet wiping and HEPA vacuuming the ceiling beams/pan decking and 1 worker is HEPA vacuuming along the CMU wall between Rooms 283 and 283a.

1030-1115 Workers break for lunch and return to work.

1200 PBS collecting the remaining art microvac samples from Room 261 contents in a connex in Parking lot A.

1300 Level 1: Workers continue wet wiping and razor scraping wall framing studs and water pipes along the south side of the level.

Level 2: Workers continue wet wiping and HEPA vacuuming ceiling, beams, and walls throughout the level.

1415 Three workers deconning out of the scaffolding containment on the south side of the skybridge. All of the panels have been removed and covered in poly. The remaining sections will be cut and loaded out tomorrow. All workers on the other levels begin to decon out for the day.

1430 Workers off site for the day.

1500 PBS vacates the site. Corey will secure doors and shut down generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: 1 da Stewlar

Name: Peter Stensland

Date: 3/8/22



| Asbestos Contractor: Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | | |
|--|--|--------|---|-------------------------------|---|------------------------|---------------|-------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Peter Stensland, Kaitlin Soukup, Gregg Middaugh | | | PBS Project No.: 40535. DES Project No.: 2021- | 488 | Date: 3, | /9/22 | | |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Perso | nnel: | | | | | | | |
| Project Manager | Project Manager Yes No Supervisor Yes No | | | Summary Phase Status: | Level 1: Detail Cleani | ing/Loadout | | |
| Workers Yes No Name: Corey Foust | | | | Level 2: Detail Clean/Loadout | | | | |
| How Many? + 24 | | | | Level 3: No work occurring | | | | |
| Air Monitoring Personne | on site: PBS/Di | icksor | 1 | | Other Personnel on Site | e: MacDonald Miller (I | MM), Total Re | claim |

WORK DESCRIPTION: Level 1: Continued detail cleaning throughout the floor. PBS scanning contents for document recovery. Level 2: Continued detail cleaning throughout the floor. South Skybridge Containment: Soffit panels removed and are being and loaded out.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: manual wet methods and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building and associated south skybridge. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site. Dickson moving 4 refrigerators and 1 vending machine to Parking Lot A for the purpose of removing refrigerant gas prior to disposal (items are building contents that have been approved for disposal, one refrigerator from maintenance building contents). 2 of the refrigerators are medium sized and the other 2 are smaller units. Total Reclaim is on site in the parking lot to do the gas removal. The refrigerators and vending machine are wrapped in poly sheeting except for the compressor units. PBS visualize refrigerators and the vending machine compressors – 4 units free of visible dust, one unit has some visible dust remaining. To remove the gas from this unit, Dickson will demarcate it with asbestos warning tape, don PPE, and attach the gas evacuation tool at the direction of Total Reclaim who is outside of the work area. Total Reclaim will evacuate the refrigerant gas from the other 4 units. PBS in area observing work.

0730 Four workers inside the south skybridge containment wrapping the soffit panels in poly sheeting for loadout, two negative air machines are exhausting out of the work area. Negative pressure observed on the poly sheeting of the containment.

0750 Level 1: One worker inside at the SW Column wet wiping and HEPA vacuuming the studs. 2 workers moving a large wood push bin filled with wrapped demolition debris (with ACM labeling) to the loadout area. 1 worker is gathering cleaning supplies. 2 workers on mobile scaffolding razor scraping the junction boxes and wet wiping them before sealing the conduits with fire caulking in Room 168. 1 worker HEPA vacuuming the floor in Room 181.

| ITEMS OF CONCERN: None | |
|---|--|
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Contaminated soffit panels: South Skybridge Containment | Olympic South Levels 1, 2, & South Skybridge Containment |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 3/9/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:3/9/22 |
|---|--------------------------|-------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Level 2: Two workers on ladders around the restrooms wet wiping the water pipes and sprinkler heads. 1 worker is using "Clean Sweep" material to sweep the west side of the floor. 1 worker is moving around electrical cords and organizing the spider boxes. 1 worker in Room 284 using "Clean Sweep" material to do a detail sweep of the floor. 3 workers in Room 283; 1 is loading the power washer onto the mobile scaffolding for use on the ceiling, 1 worker is scraping off residual mastic with a mastic remover and steel wool in the SW corner, and 1 worker is cutting sections of poly to put overtop the negative air machines.

0800 PBS Project Manager Gregg Middaugh arrives to the job site. PBS continues scanning contents in Poly sheeting scan room constructed on level 1. PBS communicated with Corey in Parking lot A some contents in Connex that need additional cleaning.

0900 The refrigerant gas removal is complete from the 4 refrigerators and the vending machine. Total Reclaim has labeled the units with "Certified CFC Free" labeling and is leaving the site. Dickson is sealing the exposed compressor units with poly sheeting prior to disposal.

0930 PBS collects microvac samples from underneath the skybridge between the insulation and the pan decking.

1030-1115 Workers break for lunch and return to work.

1300 PBS collects microvac samples from the play equipment and concrete tunnel SW of the building.

1330 Level 1: Workers continue wet wiping, pressure washing, and razor scraping wall framing studs, ceilings, and water pipes along the south side of the level. Workers are also using "Clean Sweep" on other floor areas of the level as final cleaning measure.

Level 2: Workers continue wet wiping and HEPA vacuuming ceiling, beams, and walls throughout the level.

1400 PBS visually insects the refrigerator and vending machine refrigerant gas removal site, no residual suspect material remains, banner tape bagged and removed. 1 worker inside the Conex containment wet wiping items to be transferred by another worker into the neighboring connex for storage until PBS visual. Work area set up in connex not visible from outside construction fence.

1415 Workers are deconning out of all work areas for the day.

1430 Workers off site for the day.

1530 PBS leaving site. MM leaving site. Doors locked, generator shut down.

Good negative pressure is indicated on all floors of the Olympic South Building to include the south skybridge containment. The server area of Level 3 remains under negative pressure with the containment walls still intact.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith

Date: 3/9/22



| Asbestos Contractor: Dickson | | | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|-------------------------------------|--------|-----------------|------------|---|--|------------------------|---------------|----|--|
| PBS Site Observer(s): Claire Tsai, Peter Stensland | | | | | PBS Project No.: 40535.4 DES Project No.: 2021-1 | | Date: 3, | /10/22 | | |
| | | | | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Persor | nnel: | | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: | Level 1: Detail Clean/ | Loadout | | |
| Workers | Yes | No | Name: Core | y Foust | | Level 2: Detail Clean/Loa | adout Level 3: No w | ork occurring | | |
| How Many? + 22 | | | | | | North skybridge containment: Soffit demo | | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | | | | | | | |
| Air Monitoring Personnel | on site: PBS/Di | ckson | | | | Other Personnel on Site: | : MacDonald Miller (N | MM), PCI | | |
| | evel 1: Continue ment: Removal a | d deta | ail cleaning th | it panels. | | Other Personnel on Site: or. Level 2: Continued detai | · | | | |

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0745 Level 1: One worker in the ECE filling conduits in the ceiling with fire caulking. 1 worker shoveling out loose rocks and debris from the demolished ECE stairs, water misted is in progress as work occurs. 1 worker is wet wiping metal studs along the west wall. 2 workers wet wiping metal studs on the east wall. 3 workers in the middle of the floor, 2 are wet wiping the ceiling and water pipes and 1 is using a pressure washer to spray down the ceiling.

Level 2: One worker HEPA vacuuming the railing along the top of the stairs. 1 worker wet wiping the poly sheeting in the columns that separate the first and second floor. 5 workers in 283; 2 on mobile scaffolding power washing the pan decking and CMU wall and 3 are below bagging contents and squeegeeing the floor.

1000 Level 1: One worker is resealing poly sheeting around the stairway windows. 6 workers along the west wall, wet wiping, scraping caulking with razors and HEPA vacuuming the ceiling and studs. 1 worker along the south wall using fire caulking to seal conduits in the ceiling. Corey and Dan are doing a walkthrough of the work area.

Level 2: One worker in Room 284 adjusting lights to gain better visibility of the ceiling and wet wiping the surface of the light. 1 worker just outside the music rooms HEPA vacuuming along the cracks in the floor and metal wall studs. 3 workers in Room 283; 2 are on the ground HEPA vacuuming water and stuffing the cracks with rags and one is organizing tools at

| ITEMS OF CONCERN: None | |
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| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Contaminated soffit panels: North Skybridge Containment | Olympic South Levels 1, 2, & North Skybridge Containment |
| | |
| · | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Clavia Tsai Name: Claire Tsai Date: 3/10/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/10/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

the top of the scaffolding. 1 worker by the containment entryway picking up "Clean Sweep" with a shovel and putting it into an ACM bag.

1030-1115 Workers break for lunch and return to work.

1230 Level 2: Three workers in the mechanical mezzanine wet wiping down the ceiling and metal studs. 3 workers just outside the music rooms; 1 is HEPA vacuuming cracks in the floor, 1 is sweeping "Clean Sweep" and one is HEPA vacuuming the floor.

1300 PBS walks through Level 2 containment with Todd and Corey. Todd and Corey discussing work procedures. *Level 2 stairwell and elevator shaft penetration area has been sealed off from Level 1.

1330 Level 1: Two workers in the mechanical room hanging poly from the ceiling making a temporary wall to separate it from the main work area. 3 workers in the NW section of the building; 1 is sealing a 55-gallon drum (containing hydraulic fluid) and 1 is wet wiping the concrete ceilings and one is HEPA vacuuming between the studs. 1 worker underneath the stairs removing cove base and mastic from the columns. 2 workers are on mobile scaffolding on the stairs resealing poly sheeting to the windows one on the landing and resealing poly sheeting to the window framing.

1400 PBS is collecting consultant air samples throughout the site that were initiated this morning. Soffit panels in North skybridge containment have been removed.

1400-1500 Weekly construction meeting with project team.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1550 PBS leaving site. Generators shut off, doors locked

Signature: Laure Tsuri Name: Claire Tsai

The individual signing certifies that the above information is correct and accurate.

Date: 3/10/22



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|--|--|-------------------|---|--|--|--|----|--|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Peter Stensland | | | • | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 3/11/22 | | |
| | | | | Page 1 of 2 | Time | 0500 | am | |
| Contractor on Site Personr | nel: | | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status: | Level 1: Detail Clean/ | Loadout | | |
| Workers | Yes No | Name: Corey | Foust | Level 2: Detail Clean/Loadout Level 3: No work occurring | | | | |
| How Many? + 22 | | | Skybridge containments: no work occurring | | | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | | Other Personnel on Site: MacDonald Miller (MM) | | | |
| Air Monitoring Personnel o | on site: PBS/Dickson | | | Other Personnel on Site | : MacDonald Miller (N | ИM) | | |
| <u> </u> | vel 1: Continued deta | ail cleaning thro | | Other Personnel on Site floor. Level 2: Continued deta | | <u>, </u> | | |
| WORK DESCRIPTION: Lev | vel 1: Continued deta /2 face respirator, Tyv | nil cleaning thro | | | | <u>, </u> | | |

0500 PBS sets up exterior ambient samples on the east, south, and west side of Olympic South.

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0730 Level 1: Four workers on the north side of the floor, two are hanging poly sheeting around the mechanical room separating it from the remainder of the floor.

0830 Level 2: Four workers in the west skybridge HEPA vacuuming and wet wiping the metal studs above the windows. 2 workers along the west wall wet wiping the ceiling on mobile scaffolding. 7 workers along the north wall wet wiping and HEPA vacuuming the metal wall studs and GWB. Corey in area directing work.

1030-1115 Workers break for lunch and return to work.

1200 PBS enters the first floor with MM to look at potential areas to set up temporary power inside the building.

1330 Level 1: Four workers wiping down ceiling components around the mechanical room, 1 worker is hanging poly to create a tunnel inside the mechanical room for access to panel that will be tied into for temporary power.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| 2 full 40 CY containers (ACM bags and wraps) removed from site today | Olympic South Levels 1 & 2 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 3/11/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/11/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Level 2: Nine workers on the north side of the building doing detail cleaning around the restrooms and decon area. Workers are wet wiping from top down on ladders and mobile scaffolding while workers below bag used cloths and position new ladders. 2 workers in the skybridge; 1 is on the ladder wet wiping the tops of the studs, the other worker is holding the ladder and passing up equipment. Corey in containment directing work making sure workers stay in their assigned areas detail cleaning north to south toward the negative air.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1400 Claire T on site.

1430 Workers off site for the day. PBS collects the air samples outside of containment, the ambient air samples are still running properly.

1500-1800 Dickson and MM off site. PBS continue scanning effort as part of inventory documentation recovery.

1830 PBS collect ambient air samples and leave site. Generator shut off, doors locked.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date; 3/11/22



Date: 3/14/22

| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|------------------------|----------------------|----------|--|--------------------------|-----------------|----------|--|
| PBS Site Observer(s): Claire Tsai, Peter Stensland | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 3 | | Date: 3/ | 3/14/22 | |
| | | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Perso | nnel: | | | | | | | |
| Project Manager | Yes N o | Supervisor Y | es No | Summary Phase Status | : Level 1: Detail Clean/ | 'Loadout | | |
| Workers Yes No Name: Corey Foust | | | | Level 2: Detail Clean/Lopanels, remove stanchi | | al of server ar | ea floor | |
| How Many? + 22 | | | | Skybridge containments: no work occurring | | | | |
| Air Monitoring Personne | el on site: PBS/Dicks | on | _ | Other Personnel on Sit | e: MacDonald Miller (I | MM) | | |
| WORK DESCRIPTION: Level 3: Dispose of serve | | | | oor. Level 2: Continued deta | ail cleaning throughou | it the floor. | | |
| WORKER PROTECTION | : 1/2 face respirator, | Tyvek, safety boots, | hard hat | | | | | |
| | • | • | | | | | | |
| | | | | | | | | |
| METHOD OF REMOVA | · wet methods mar | uual and saws | | | | | | |

OBSERVATIONS:

information is correct and accurate.

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site. Two workers donning PPE to enter the Level 3 containment for loadout of the server floor panels.

0800 Level 1: One worker loading in equipment from the loadout area, 1 worker outside containment passing in equipment.

Level 2: Three workers in the restroom area wet wiping and HEPA vacuuming the metal studs and plumbing. 4 workers along the east side of the floor wet wiping and HEPA vacuuming the pipes and clips hanging from the ceiling. 4 workers along the west wall wet wiping the columns, and ceiling junction boxes. 2 workers by the music rooms unloading server floor panels from the third floor for loadout. Two workers in level 3 containment pass server floor panels to worker on top of scaffolding in Room 284. Panels get passed down scaffolding and down northwest stairwell to level 1 where panels are loaded into mega box for disposal.

Level 3: Two workers passing down server floor panels to the worker on the mobile scaffolding on Level 2 through a hole in the GWB wall on the south side of the floor. Workers on Level 3 will exit through the level 2 skybridge. PBS, Dan and Corey on Level 3. MM will be setting up temporary power panel in level 3 in the area that has previously been cleared.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| N/A | Olympic South Levels 1/2/3 |
| | |
| | |
| | 0. |
| The individual signing certifies that the above | Signature: (lilling Tsai) |
| N/A | Olympic South Levels 1/2/3 |



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:3/14/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

PBS, Dan and Corey view air handler unit caps from below. Corey communicates potential to clean the caps from below if worker can access that area to clean between the pan decking and the roof cap.

- **1030-1115** Workers break for lunch and return to work.
- 1215 Dickson fuel truck on site to refill the generator and fuel cube.
- 1245 Level 1: One worker changing out the prefilters for the negative air machines throughout the floor.
- Level 2: Two workers moving the stacked server floor panels (from Level 3). 3 workers on the west side of the floor wet wiping and HEPA vacuuming around the base of the columns and steel poles. 1 worker in the restroom area wet wiping pipes. 2 workers in the skybridge wet wiping the metal studs above the windows. 3 workers along the east wall wet wiping the metal studs. Corey and Dan (MM) are going through the floor inspecting progress.
- **1320** Dickson fuel truck is draining the hydraulic fluid out of the 2, 55-gallon drums. The hydraulic fluid was from the elevator equipment room and each drum was approximately half full. 1 worker is sweeping out the main access road on the east side of the building.
- **1335** Level 3: Two workers dismantling the server floor stanchions with drills and staging them to load them out through the Level 2 scaffolding.
- **1400-1430** PBS, Dan, and Corey enter level 1 containment to assess set up for access to temporary power in mechanical room. Dickson will be reconstructing a mini enclosure from the west double doors straight into the mechanical room for the clean temporary power panel to sit. The junction box will be accessed through containment by the MM electrician with the 16 hour training.
- **1400** Two workers in the parking lot closing the waste containers for the day.
- **1415** Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting. PBS collects the air samples running outside of the containments.
- **1430** Workers off site for the day.
- 1500 Dickson and MM off site. Doors locked.
- **1530** PBS shut down generator and leave site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Claire Tsai Date: 3/14/22



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|--|----------------|--------|--|---------------|--------------------------|--------------------------|----------------|----------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Peter Stensland | | | PBS Project No.: 40535 DES Project No.: 2021- | | Date: 3, | /15/22 | | |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status | : Level 1: Detail Clean, | /Loadout | |
| Workers | Yes | No | Name: Corey | / Foust | Level 2: Detail Clean/Lo | oadout. Level 3: Demo | server floor s | tructure |
| How Many? + 16 | | | | | Skybridge Containmen | ts: No work Occurring | J | |
| Air Monitoring Personnel | on site: PBS/D | icksor | 1 | _ | Other Personnel on Sit | e: MacDonald Miller (I | MM) | |

WORK DESCRIPTION: Level 1: Detail cleaning to include HEPA vacuuming and wet wiping throughout the level. Level 2: Final detail cleaning to include HEPA vacuuming and wet wiping throughout the level. Level 3: Demolition of server floor stanchions and continued loadout.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: manual wet methods – HEPA vacuuming and wet wiping

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0645 Level 3: Two workers inside the containment; 1 is loading server floor stands to a worker on the scaffolding in Level 2 Rm 284 and 1 worker is disassembling the server floor stands to aid in loadout.

0700 Dickson transporting Mega-boxes with demolished raised server floor components with forklift from level 1 loadout to Parking Lot A waste containers.

0745 Level 1: Two workers sealing up a poly sheeting wrap inside a wooden box filled with server floor components for loadout. 1 worker removing the previously constructed poly sheeting tunnel in the Mechanical Room. 1 worker organizing equipment along the east wall.

Level 2: Two workers along the west wall previously Room 275 wet wiping the base of the metal studs and the concrete ceiling. 4 workers on the west side of the floor; 1 worker is wet wiping the concrete floor, 1 worker is wet wiping the concrete ceiling, 1 worker is building the poly sheeting mini enclosure for the temporary power panel, and 1 worker is HEPA vacuuming the floor around the negative air machines (west stairs)

| BUILDING/AREA/LOCATION |
|----------------------------|
| Olympic South Levels 1/2/3 |
| |
| |
| |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 3/15/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/15/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0845 Level 2: PBS visually inspects the temporary power mini enclosure; 1 worker is responding to cleaning on any issues found.

0900 Level 2: PBS visually inspects the temporary power clean room passes visual inspection and the worker begins preparing it for encapsulation.

0945 Corey requests PBS visual inspection of the area of the floor on Level 1 in the Mechanical Room where the mini enclosure for the Level 1 temporary power mini enclosure will sit.

1000 Level 1: PBS visually inspects the floor for the tunnel to access the new temporary power clean room in the Mechanical Room. 2 workers are responding to items needing more cleaning as PBS identifies them.

1020 Level 1: The Mechanical Room floor section passes visual inspection; the workers are going to spray the floor down with a Hudson sprayer filled with encapsulate then erect a wooden / poly frame around the area to separate it from the containment.

1030-1115 Workers break for lunch and return to work.

1150 One Lifting Equipment Rental worker is picking up the I-beam crane from Dickson.

1230 Level 3: Three workers dismantling the server floor panels (unscrewing the panels and disassembling the stands) before passing them down to Level 2 though the hole in the south wall.

1315 Level 1: Two workers loading out the lined wooden box. 2 workers assembling the wooden frame around the clean room tunnel in the Mechanical Room.

Level 2: Seven workers spread out W to E across the W stair line; 2 are on mobile scaffolding wet wiping the ceiling, 3 are on ladders wet wiping the ceiling and the tops of pipes and 2 are on the ground HEPA vacuuming the floor.

1400 Claire T on site for meeting with Charlene W, Dan, and IT department employee.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1545 PBS off site. Dan still on site will shut off generator and secure site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith

Date: 3/15/22



| Asbestos Contractor: Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|----------------|--------|--|---------|---|-------------------------|-----------------|---------|
| PBS Site Observer(s): Claire Tsai, Peter Stensland, Mae Reilly, Gregg Middaugh | | | PBS Project No.: 40535 DES Project No.: 2021- | | Date: 3/ | 16/22 | | |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Persor | nnel: | | | | _ | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status | : Level 1: Detail Clean | /Loadout | |
| Workers | Yes | No | Name: Core | y Foust | Level 2: Detail Clean/Lo | oadout. Level 3: Demo | server floor st | ructure |
| How Many? + 20 | | | | | Skybridge Containmen | ts: No work occurring | | |
| Air Monitoring Personnel | on site: PBS/D | icksor | า | | Other Personnel on Sit | e: MacDonald Miller (I | MM) | |

WORK DESCRIPTION: Level 1: Final detail cleaning to include HEPA vacuuming and wet wiping throughout the level. Level 2: Final detail cleaning to include HEPA vacuuming and wet wiping throughout the level. Level 3: Demolition of server floor stanchions and continued loadout.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods – HEPA vacuuming and wet wiping

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0700 Level 3: Three workers disassembling the remaining portion approx. 10% of the server floor and passing it down to Level 2 for loading out.

0800 Level 1: One worker inside the Mechanical Room securing Dura Skrim (reinforced poly sheeting) to a wooden frame to seal off the mini-enclosure and tunnel from the rest of the containment (for the temporary power panel). PBS observed the poly sheeting critical barrier on the mini enclosure are being drawn towards the containment.

Level 2: One worker configuring the negative air machine in the mini enclosure (for the temporary power) to keep it under positive pressure from the containment. 8 workers along the D grid line, 4 are wet wiping the ceiling and pipes, 1 worker is loading ACM bags onto a pallet for loadout, 3 are along the west wall, 1 is wiping down the pipes along Room 284, 2 by the negative air machines wet wiping the metal studs. PBS initiate clearance sample in temporary power mini enclosure.

0900 PBS project manager Gregg M on site. PBS continues document recovery in scanning room on Level 1.

1000 Level 2: PBS collects the clearance sample for the mini enclosure. 4 workers along the east wall; 3 are HEPA vacuuming the floor and 1 is wet wiping pipes. 2 workers wet wiping metal studs along the west wall. 2 workers on the mechanical mezzanine; 1 is wet wiping the pan decking and 1 is HEPA vacuuming the floor. 1 worker is wet wiping the

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|---|--|
| ITEMS OF CONCERN: None | |
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Level 3 | Olympic South Levels 1/2/3 |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai Date: 3/16/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/16/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

water pipes coming out of Room 284 towards the north. 1 worker is going through the floor with a flashlight inspecting the cleaning process.

1025 PBS initiates clearance sample in level 1 mini enclosure.

1030-1115 Workers break for lunch and return to work.

1200 PBS continues document recovery in scanning room on Level 1. PBS analysis of the clearance sample in the Level 2 mini-enclosure yields passing results by on-site microscopic analysis. PBS notifies Dan and Corey of Level 2 mini enclosure clearance.

1225 PBS collect Level 1 mini enclosure clearance sample. PBS analysis of the clearance sample in the Level 1 minienclosure yields passing results by on-site microscopic analysis. PBS notifies Dan and Corey of Level 1 minienclosure clearance.

1300 One full 40 CY container (ACM bags and wraps) and 1 full 40 CY container General Debris removed from site today removed from Parking Lot A.

1330 Level 1: Two workers on the stairs passing down server floor panels into a mega box for disposal.

Level 2: Two workers in Room 284 wet wiping the ceiling beams and pan decking. 3 workers along the west wall wet wiping and HEPA vacuuming the metal studs. 4 workers in Room 283 loading out ACM bags filled with rags and other used cleaning supplies.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS departs the site. Corey will shutdown the generators and secure the site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Claure T saci

Name: Claire Tsai

Date: 3/16/22



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|--|-------|----|--|-----------------------|----------------------|--------------------------|----------|----|
| PBS Site Observer(s): Claire Tsai, Peter Stensland, Mae Reilly | | | PBS Project No.: 40535 DES Project No.: 2021- | | Date: 3/17 | 7/22 | | |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nnel: | | | _ | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status | : Level 1: Detail Clean, | /Loadout | |
| Workers Yes No Name: Corey Foust | | | Level 2: Detail Clean/Lo | oadout. Level 3: Demo | server floor adh | esive | | |
| How Many? +19 | | | | | Skybridge Containmen | ts: No work Occurring |) | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Other Personnel on Site: MacDonald Miller (MM) | | | | | |

WORK DESCRIPTION: Level 1: Final detail cleaning to include HEPA vacuuming and wet wiping throughout the level. Level 2: Final detail cleaning to include HEPA vacuuming and wet wiping throughout the level. Level 3: Demolition of server floor stanchion adhesive.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods – HEPA vacuuming and wet wiping

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0700 Level 3: Two workers removing the adhesive that held the server floor stanchions to the concrete floor.

Two workers assisting from outside containment (Forklift driver and spotter)

0830 PBS continues document recovery in scanning room on Level 1.

0850 Level 1: Two workers using "Clean Sweep" to pick up remainder of dust from the concrete floor.

Level 2: Four workers in Room 284 on mobile scaffolding misting the CMU wall with an airless sprayer then scraping off the fireproofing overspray that was concealed beneath the paint. 2 workers in the mechanical mezzanine wet wiping the ceiling beams and pan decking. 4 workers in Room 284 wet wiping the pan decking, metal studs and ceiling beams on top of mobile scaffolding. 1 worker HEPA vacuuming the floor along the west wall.

Floor supervisor assisting between containments as needed.

0950 PBS and Dan walk through containments. Visual workers in band rooms scraping fireproofing over spray from CMU walls of 283 and 284. Walkthrough Level 1 mechanical room to see which cables can be removed based on

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| Asbestos contaminated building materials from Levels 3 | Olympic South Levels 1/2/3 |
| | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure T Suri

Name: Claire Tsai

Date: 3/17/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/17/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | · | |

communication with college IT department. Some boxes and cables will need to stay in place and be cleaned and cleared with the space.

1030-1115 Workers break for lunch and return to work.

1230 PBS continues document recovery in scanning room on Level 1.

1320 PBS walk through level 2 north area and note components that need additional cleaning with duct tape.

1330 Level 2: Four workers in Room 284; 2 on mobile scaffolding scrapping the painted fireproofing overspray on the CMU wall and 2 workers below on the ground scraping the CMU wall. 2 workers in Room 283 wet wiping the ceiling beams. 1 worker on the mechanical mezzanine HEPA vacuuming the bottom of the metal studs. 1 worker is HEPA vacuuming the cracks by the D grid line.

1400 PBS is collecting consultant air samples throughout the site that were initiated this morning.

1400-1500 Weekly construction meeting with project team.

1410 Level 1: One worker doing general housekeeping throughout the floor.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1530 PBS leaves for the day. Corey will shut down generator secure the site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Music T Suit

Date: 3/17/22



| Asbestos Contractor: Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | |
|---|----------------|--------|---|---------------|---|------------------------|------------------------|
| PBS Site Observer(s): Claire Tsai, Mike Smith, Peter Stensland, Gregg Middaugh, Mae Reilly | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 3/18/22 | | |
| | | | | | Page 1 of 2 | Time | 0600 am |
| Contractor on Site Person | nel: | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | Level 1: Change nega | ative air pre filters. |
| Workers Yes No Name: Corey Foust | | | Level 2: Detail clean/smoke test/Loadout. Level 3: Detail clean | | | | |
| How Many? + 18 | | | | | server containment. Sky | /bridge Containments | s: No work occurring |
| Air Monitoring Personnel | on site: PBS/D | icksor | า | | Other Personnel on Site | e: MacDonald Miller (I | MM) |

WORK DESCRIPTION: Level 1: Change negative air machine prefilters and adjust locations of those machines. Level 2: Final detail cleaning to include HEPA vacuuming and wet wiping throughout the level. PBS smoke test level. Level 3: Detail clean server floor area containment.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods – HEPA vacuuming and wet wiping

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 PBS calibrating various pumps to collect daily PCM air samples throughout site.

Level 1: Two workers on the level changing negative air machine prefilters and adjusting machine locations. No other work occurring on this level today.

0700 Level 3: Three workers inside containment; 1 is on mobile scaffolding wet wiping the ceiling components, 1 is wet wiping metal studs around the electrical components, and 1 is wet wiping / HEPA vacuuming between the wall studs on the SW corner.

0830 PBS project manager Gregg M on site.

Level 2: Three workers in Room 283; 2 are on mobile scaffolding wet wiping and HEPA vacuuming the steel beams and pan decking and scraping off the fireproofing overspray under paint on the CMU wall, and 1 worker is below HEPA vacuuming the crack along the CMU wall peeling back the poly that previously covered it. 1 worker in the mechanical mezzanine wet wiping and HEPA vacuuming the metal studs. 1 worker going throughout the floor spraying the air with an airless sprayer. 1 worker in Room 284 scraping / HEPA vacuuming the fireproofing overspray under paint on the CMU wall. 2 workers along the north wall wet wiping and HEPA vacuuming the metal studs.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| _N/A | Olympic South Levels 1/2/3 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 3/18/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/18/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page1 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0900-1000 Claire T on site for smoke test. PBS is conducting a smoke test of the second floor. All workers vacate the workspace, Corey remains to inspect the airflow on the floor. Corey communicates after lunch break workers will adjust negative air machines based on air flow patterns observed during smoke test. Additional air scrubbers will be added to the space to help with air circulation inside Level 2.

1030-1115 Workers break for lunch and return to work.

1245 One worker operating a forklift lifting negative air machines on pallets into the skybridge. 1 worker in the skybridge loading the negative air machines off the pallets.

1300 Level 2: PBS is measuring the dimensions of the floor to assess negative air circulation requirements. 2 workers in Room 284 spraying down the CMU wall with an airless sprayer before scraping off fireproofing over spray under paint. 1 worker on the mechanical mezzanine wet wiping the metal studs. 1 worker in Room 283 spraying down the walls with an airless sprayer before scraping off the fireproofing over spray. 4 workers on the north side of the floor, 1 is HEPA vacuuming the floor, 2 are wet wiping metal studs and one is filling conduit holes with fire caulking.

1330 Level 3: Workers continue wet wiping the ceiling components, metal studs around the electrical components, and wet wiping / HEPA vacuuming between the wall studs on the southwest side of the level.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS leaves the site, Corey will shut down generators and secure site Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Michal /mh

Name: Mike Smith

Date: 3/18/22



Date 3/21/22

| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--------------------------------------|--|-----------------------|--|--|-------------------------|---------------|---------|
| PBS Site Observer(s): Claimae Reilly | Site Observer(s): Claire Tsai, Peter Stensland, Cameron Budnick, e Reilly | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 3/ | /21/22 |
| | | | _ | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Persor | inel: | | | | | | |
| Project Manager | Yes No | Supervisor Yes | No | Summary Phase Status | : Level 1: Scan doc's/e | xtend mini en | closure |
| Workers Yes No Name: Corey Foust | | | room. Level 2: Continued detail cleaning. Level 3: No work occurring | | | occurring. | |
| How Many? + 17 | | | | South Skybridge Conta | inment: Detail cleanin | g | |
| Air Monitoring Personnel | on site: PBS/Dicks | on | | Other Personnel on Sit | e: MacDonald Miller (N | им), все | |
| | | | | | | | |

WORK DESCRIPTION: Level 1: PBS scanning school documents. Extend mini enclosure for temp power. Level 2: Continued detailed cleaning throughout the space to include HEPA vacuuming and wet wiping throughout the level. South Skybridge Containment: Detailed cleaning
WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods – HEPA vacuuming and wet wiping

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0645 Two workers on the south skybridge scaffolding pushing off pooled water from the top of the poly sheeting and ensuring there is no leaks in the containment.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0715 Level 2: Four workers in Room 284; 2 are on mobile scaffolding wet wiping the metal studs, 1 is HEPA vacuuming / wet wiping the base of the metal studs and 1 worker is HEPA vacuuming the cracks in the concrete slab. 2 workers in the hallway outside the music rooms scraping off fireproofing overspray from the CMU wall with razor blade scrapers. The wall is periodically misted down with an airless sprayer. 1 worker in Room 283 on mobile scaffolding scrapping off fireproofing overspray. 3 workers by the decon area bagging dirty rags and cleaning supplies for loadout. 1 worker on the north wall wet wiping the metal studs. 1 worker is covering sprinkler heads with gloves along the north side of the building. 1 worker is wet wiping the pipes by the restrooms.

0830 PBS continue document recovery in scanning room on level 1.

information is correct and accurate.

0940 South Skybridge Containment: 2 workers observed; 1 sealing up the load out flap and the second is loading encapsulation into the work area.

| ITEMS OF CONCERN: None | |
|--|--|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| N/A | Olympic South Levels 1/2/South Skybridge containment |
| | |
| | |
| | |
| The individual signing certifies that the above | Signature: Clavie Tyri |

Name: Claire Tsai



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/21/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

Level 2: Five workers are wiping down exposed surfaces- fire sprinkler pipes, fire-sprinkler heads, studs, and walls on the level. PBS has communicated sprinkler heads need some additional cleaning. In Rooms 283 and 284, 3 workers are wiping down studs on the SE walls. 3 workers are scraping fireproofing overspray off the CMU walls. 1 is taping off an expansion joint in the floor to keep water from entering the floor.

1030-1115 Workers break for lunch and return to work.

1050 Todd Larson on site.

1100 Construction team and BCE on site for walk through related to potential power shut down of campus.

1200 Level 1: Two workers assembling a wooden structure to extend the mini enclosure in the mechanical room (for temp power assembly). PBS visually inspects the floor and gives the okay for Dickson to encapsulate. Workers use a Hudson sprayer to apply the encapsulate to the floor before spreading it around with a brush to ensure an equal coat. 1 PBS worker is scanning documents from various area as part of inventory document recovery process.

Level 2: One worker wet wiping pipework associated with restrooms. 1 continues wiping down studs on the east wall. 2 workers are wiping down sprinkler pipe heads. 1 is HEPA vacuuming the poly sheeting critical barrier separating the first and second floor column canvities. In Rooms 283 and 284 - 2 workers are on scaffolding wiping the fireproofing off the CMU walls. 1 worker is HEPA vacuuming out studs. 4 workers are on the other side of the CMU walls with an airless, HEPA vac, and razor scrapers to remove fireproofing from the CMU.

1300 PBS visually inspects and collects microvac samples from contents in a Conex. 3 workers exit level 2 containment to work on south skybridge containment.

1345 Level 2: Three workers in Room 284 cleaning fireproofing off the CMU walls. In Room 283, 3 workers are on scaffolding razor scraping the fireproofing off the CMU wall shared with Room 284. 2 workers are on the 1/2 floor wet wiping the wall studs.

1350 South Skybridge Containment: Three workers wet wiping ceiling components on the east side of containment.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS leaves the site, Corey will shut down generators and secure site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

| Signature: Clavie Trai | |
|------------------------|---------------|
| Name: Claire Tsai | Date: 3/21/22 |



| Asbestos Contractor: Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | | |
|---|----------------|--------|--|---------------|---|-------------------------|----------------|-------|
| PBS Site Observer(s): Mike Smith, Peter Stensland, Cameron Budnick, Mae Reilly | | | PBS Project No.: 40535 DES Project No.: 2021- | | Date: 3, | /22/22 | | |
| | | | | _ | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nnel: | | | _ | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status | : Level 1: Scan doc's/c | lear mini encl | osure |
| Workers Yes No Name: Corey Foust | | | extension. Level 2: Detail cleaning. Level 3: No work. | | | | | |
| How Many? + 16 | | | | | South Skybridge: Detai | l clean. North Skybrid | ge: Begin clea | ning. |
| Air Monitoring Personne | on site: PBS/D | icksor | า | _ | Other Personnel on Sit | e: MacDonald Miller (I | MM) | |

WORK DESCRIPTION: Level 1: PBS scanning school documents. PBS run clearance sample in mini enclosure extension for temp power. Level 2:

Rm 283/284 detail cleaning throughout. Razor scrape, HEPA vacuum, and wet wiping. South Skybridge Containment: Detailed cleaning. North

Skybridge Containment: Begin detail cleaning.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods – HEPA vacuuming, razor scraping, and wet wiping.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0730 Level 2: All workers on this level are in Rooms 283/284. 2 workers in Room 284; 1 spraying and wiping down the studs on the south wall, the other is preparing an airless sprayer. In Room 283, 3 workers are spraying and scraping the CMU wall to remove fireproofing overspray. Floor supervisor and another worker are on the mechanical mezzanine spraying and wiping down studs on the north wall. 7 workers observed.

0730 Level 1: PBS sets up a clearance sample for the expanded mini enclosure in the Mechanical Room for the temporary power.

0800 South Skybridge Containment: Seven workers observed in area, 6 are using rags to wet wipe dust and material off the girders and studs. 1 is wiping down the floor. Crew is working from the west end to the east end. Progress appears to be roughly more than 20% complete.

0850 Level 1: One PBS worker is scanning documents from various area as part of inventory document recovery process.

South Skybridge Containment: Six workers inside the south skybridge wet wiping / HEPA vacuuming the metal beams and covering on the insulation on the west side of the containment. Both negative air machines are functioning properly.

ITEMS OF CONCERN: None

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

N/A

Olympic South Levels 1/2/skybridge containments

⁄e

Signature:

Name: Mike Smith

Date: 3/22/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/22/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

0930 Level 1: PBS collects the clearance sample from the Mechanical Room mini enclosure. On site microscopic analysis yields satisfactory results on the sample. Dickson and MM are advised of the passing result.

0945 Level 2: Two workers in Room 283 razor scraping fireproofing (under paint) off the CMU wall. 4 workers are in Room 284; 2 are using an airless sprayer and wiping down the studs and pipes and 2 workers are on the south scaffolding doing the same.

1015 Level 2: Seven workers observed. Crew continues using rags to wipe dust and debris from the exposed surfaces. Per Corey, 2 workers may be moved to the North Skybridge Containment if progress allows for it.

1030-1115 Workers break for lunch and return to work.

1200 Level 2: All workers on this level are in rooms 283/284. 3 workers in Room 284; 1 is wiping down the ceiling with wet rags and the other 2 are cleaning debris off the north wall studs. In Room 283 there are 3 workers razor scraping (with HEPA vacuum for dust) fireproofing and drywall off the studs on the south wall. PBS noted 2 airless sprayers in use. 6 crew observed. + 1 entering as PBS exits containment.

1240 South Skybridge Containment: 5 workers in the north half of the containment doing a final wipe of the area. 2 workers have moved to North Skybridge Containment

North Skybridge Containment: Two workers in the south half of the containment. Cleaning up bird droppings and wiping down I-beams.

1300 Level 1: 1 PBS worker continues scanning documents from various area as part of inventory document recovery process.

PBS collects microvac samples of the remaining building contents stored in the Connex's.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS departs the site with samples to be delivered to Lab/Cor Seattle and SAT Lynnwood. Corey will shut down generators and secure site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith

Date: 3/22/22



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | |
|--|------------------|----------------------|---|---|------------------------|----------------------|
| PBS Site Observer(s): Claire Tsai, Cameron Budnick, Peter Stensland, Gregg Middaugh, Mae Reilly | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 3/23/2 | |
| | | | | Page 1 of 2 | Time | 0600 am |
| Contractor on Site Persor | nnel: | | | | | |
| Project Manager | Yes | No Supervisor | Yes No | Summary Phase Status | : Level 1: Scan docum | ents |
| Workers Yes No Name: Corey Foust | | | | Level 2: Detail cleaning. Level 3: No work. | | |
| How Many? + 17 | | | | South Skybridge: Deta | l clean. North Skybrid | ge: Detail cleaning. |
| Air Monitoring Personnel | on site: PBS/Dic | kson | | Other Personnel on Sit | e: MacDonald Miller (I | MM) |

WORK DESCRIPTION: Level 1: PBS scanning school documents. Level 2: Rm 283/284 detail cleaning throughout - Razor scrape, HEPA vacuum, wet wiping, and wire brushing. South Skybridge Containment: Detailed cleaning. Skybridge Containments: Continued cleaning.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods – HEPA vacuuming, razor scraping, and wet wiping.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0730 Level 2: One worker deconstructing scaffolding. 4 workers are in Room 284 continuing the work of scraping fireproofing off the studs. 2 workers in Room 283 wet wiping and HEPA vacuuming up debris along the SE wall. 7 workers observed.

0800 South Skybridge Containment: Three workers observed. 1 is HEPA vacuuming beams, 1 is HEPA vacuuming the floor, and the 3rd is misting with a Hudson sprayer and wiping down beams.

0900 PBS organizes school contents in the Connex's in preparation for their return to occupants.

Level 1: One PBS worker is scanning documents from various areas as part of inventory document recovery process.

1000 Level 2: Three workers in Room 283 loading bagged waste into a wheel barrel. 4 workers in Room 284 breaking down a set of scaffolding and cleaning. The floor supervisor was exiting area upon PBS' entry.

1015 North Skybridge Containment: Two workers inside containment wet wiping and HEPA vacuuming along metal beams and on the rigid insulation.

South Skybridge Containment: PBS perform preliminary visual inspection and note areas that need additional cleaning.

| ITEMS OF CONCERN: None | |
|--|--|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| N/A | Olympic South Levels 1 & 2, and skybridge containments |
| | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai

Name: Claire Tsai

Date: 3/23/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/23/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1030-1115 Workers break for lunch and return to work. PBS project manager Gregg M on site.

1230 Level 2: Four workers in Room 284 spraying down and cleaning all parts of the scaffolding as it's taken apart. 3 workers in 283 continuing the removal of fireproofing and remaining materials from the studs with wire bristle brushes. The supervisor entered as PBS was leaving containment.

North Skybridge Containment: PBS visually inspects the containment and collects some additional PLM samples of suspect materials. Dickson is going to clean up some exposed mastic on the Olympic South building and do some more detail cleaning along screws and on ledges.

1300 Level 1: One PBS worker continues scanning documents from various area as part of inventory document recovery process.

1400-1420 North Skybridge Containment: PBS visually inspects the containment Dickson does detail cleaning of the few remaining portions along the beams. PBS visual inspection satisfactory with worker's additional work. Area will be encapsulated with clear encapsulant.

South Skybridge Containment: PBS visually inspects containment. Areas previously noted by PBS have been cleaned, visual inspection satisfactory.

1420 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 MM still on site will shut down generators. Doors are locked.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Claure Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai Date: 3/23/22



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | |
|----------------------------------|------------------------|----------------|--|---|------------------------|---------------------|
| PBS Site Observer(s): Cla | ire Tsai, Peter Stensl | and, Cameron E | Budnick | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 3/2 | | |
| | | | | Page 1 of 2 | Time | 0600 aı |
| Contractor on Site Person | nnel: | | _ | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status | Level 1: Scan docume | ents |
| Workers Yes No Name: Corey Foust | | | Level 2: Detail cleaning. Level 3: Detail cleaning | | | |
| How Many? + 17 | | | | South Skybridge: Air cl | earance. North Skybrid | dge: Air clearance. |
| Air Monitoring Personne | on site: PBS/Dickso | n | | Other Personnel on Sit | e: MacDonald Miller (N | MM) |

WORK DESCRIPTION: Level 1: PBS scanning school documents. Level 2: Rm 283/284 detail cleaning throughout - Razor scrape, HEPA vacuum, wet Wiping, and wire brushing. Level 3: Cleaning server containment areas. North & South Skybridge Containments: Air Clearances pass.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods - HEPA vacuuming, razor scraping, and wet wiping.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0730 Level 2: All work is being done in Rooms 283/284. 17 negative air machines are currently running on this level; 11 of those machines are exhausted to the exterior and the other 6 are being utilized as scrubbers. In Room 284, 1 worker is wet wiping the steel ceiling joists. Fall protection is in use. Eric is moving a section of scaffolding to reach another section of ceiling and the 3rd worker is scraping off the studs. In Room 283, 3 workers are cleaning studs- 1 is HEPA vacuuming the bottom of the wall and the other 2 are on scaffolding along the south wall scraping and wiping the studs. Corey entered as PBS left. 6 other crew observed.

0745 Level 3: Six workers in the containment. 4 workers are wiping down ceiling components and 2 are wiping down the walls and ledges.

0830 Workers have finished encapsulating the North Skybridge containment. Two workers move from north containment to south skybridge containment to encapsulate. PBS view north skybridge containment, encapsulant coverage satisfactory.

1000 PBS initiates air clearance sampling in the North Skybridge Containment.

1030-1115 Workers break for lunch and return to work.

1200 PBS initiates air clearance sampling in the South Skybridge Containment.

| ITEMS OF CONCERN: None | |
|--|--|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| N/A | Olympic South Levels 1/2/3/ Sky bridge north and south |
| - | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claire Tsai

Date: 3/24/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/24/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1230 On site PCM analysis of North Skybridge air clearance yields passing result. PBS notified Corey area has passed clearance.

1245 Level 2: Room 284, 3 workers wet wiping the ceiling and pan decking. Room 283, 2 workers wet wiping and HEPA vacuuming the pan decking and ceiling beams. 2 workers in the mechanical mezzanine wire brushing and wet wiping the tops of the metal studs along the east wall. 1 worker by the decon is doing general housekeeping.

1300 Level 1: One PBS worker continues scanning documents from various areas as part of inventory document recovery process.

1400-1500 Weekly construction meeting with project team.

1415 On site PCM analysis of South Skybridge air clearance yields passing result. PBS notified Corey area has passed clearance.

Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1530 PBS leaves for the day. Corey will shut down generator secure the site.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Mulle T. Sai

Date: 3/24/22



| | Dickson | | | Project Name: Olympic So | outh Abatement & F | Renairs | |
|--|--|--|--|--|--|---|---------------------------------------|
| Asbestos Contractor: Dickson PBS Site Observer(s): Mike Smith, Peter Stensland, Cameron Budnick | | | PBS Project No.: 40535.48 DES Project No.: 2021-192 | 8 | Date: 3/ | 25/22 | |
| | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Pers | onnel: | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status: Le | evel 1: Scan docume | ents | |
| Workers | Yes No | Name: Core | y Foust | Level 2: Detail cleaning. Le | evel 3: Detail cleanir | ng | |
| How Many? + 18 | | | | | | | |
| Air Monitoring Personn | el on site: PBS/Dickso | n | | Other Personnel on Site: N | MacDonald Miller (N | MM) | |
| | • | | | | | | |
| WORK DESCRIPTION: | Level 1: PBS scanning | school docume | ents. Level 2: de | tail cleaning throughout - Raz | or scrape, HEPA va | cuum, wet wip | ing, and |
| WORKER PROTECTION | N: ½ face respirator, T | yvek, safety boo | ots, hard hat | | | | |
| | | | | | | | |
| METHOD OF REMOVA | L: Manual wet metho | ds – HEPA vacu | uming, razor sci | raping, and wet wiping. | | | |
| OBSERVATIONS: | | | | | | | |
| | M workers are ha | ving their m | orning meet | ing to go over the scope | e of work for th | e day. Dicks | on |
| | | _ | _ | rence to the Olympic Sc | | - | |
| nonitoring inside an | | • | | , , | 3 | | 3 |
| | various numns to | o collect dail | y PCM air sa | mples throughout site. | | | |
| 630 PBS calibrating | various parrips to | | | | | | |
| | | n containmei | nt. 1 worker i | s wiping down the colu | mns along the i | north side c | f |
| 650 Level 3: Five wo | orkers observed in | | | s wiping down the colu | • | | |
| 650 Level 3: Five wo | orkers observed in er is cleaning the | edge of the | server floor, | and 2 workers are clean | • | | |
| 650 Level 3: Five woontainment. 1 work | orkers observed in er is cleaning the gs of used rags to | edge of the the edge of | server floor, f containmen | and 2 workers are clean at for future loadout. | ing the roof joi | sts with we | rags. |
| 650 Level 3: Five woontainment. 1 work orker is moving bar 730 Level 2: Nine w | orkers observed in er is cleaning the gs of used rags to rorkers observed i | edge of the the edge of n containme | server floor, f containmen ent. 2 worker | and 2 workers are clean It for future loadout. Is are in Room 283 on sc | ing the roof joi | sts with we | rags. · |
| 650 Level 3: Five woontainment. 1 work orker is moving bar 730 Level 2: Nine worlth wet rags. 2 worl | orkers observed in er is cleaning the gs of used rags to orkers observed in kers are in Room | edge of the the edge of n containme 284 cleaning | server floor, f containmen ent. 2 workers the ceiling j | and 2 workers are clean at for future loadout. s are in Room 283 on so oists as well. 1 worker in | ing the roof joi raffolding clean I Room 283 is p | sts with we ing the ceili ressure was | rags. ng jois shing th |
| ontainment. 1 work orker is moving barrish Level 2: Nine world with wet rags. 2 world world world world wet rags. 2 world world wet rags. 2 world world wet rags. 2 world world wet rags. 2 world world wet rags. 2 world world wet rags. 2 world worl | orkers observed in er is cleaning the gs of used rags to orkers observed in kers are in Room | edge of the the edge of n containme 284 cleaning | server floor, f containmen ent. 2 workers the ceiling j | and 2 workers are clean It for future loadout. Is are in Room 283 on sc | ing the roof joi raffolding clean I Room 283 is p | sts with we ing the ceili ressure was | rags. ng jois shing th |
| ontainment. 1 work vorker is moving bar 730 Level 2: Nine with wet rags. 2 work MU wall to remove | orkers observed in er is cleaning the gs of used rags to rorkers observed it kers are in Room it leftover fireproof | edge of the the other edge of the edge of the containment of the containing the containing of the cont | server floor, f containmen ent. 2 workers the ceiling jurs are on the | and 2 workers are clean at for future loadout. s are in Room 283 on so oists as well. 1 worker in | ing the roof joi affolding clean Room 283 is p wiping down th | sts with we ing the ceili ressure was ne top of th | rags. ng jois shing the |
| 650 Level 3: Five woontainment. 1 work worker is moving bar 730 Level 2: Nine work work wet rags. 2 work wet rags. 2 work work wall to remove and roof joists. Floor | orkers observed in er is cleaning the gs of used rags to rorkers observed it kers are in Room it leftover fireproof lead and another | edge of the other edge of the edge of the containment 284 cleaning fing. 2 worker worker are | server floor, f containmen ent. 2 workers the ceiling jurs are on the moving work | and 2 workers are clean at for future loadout. s are in Room 283 on sc oists as well. 1 worker in mechanical mezzanine | ing the roof joi affolding clean Room 283 is p wiping down the w loading out | sts with we ing the ceili ressure was ne top of th waste bags | rags. ng jois shing t e wall |

1000 Level 2: Three workers attaching a new layer of poly sheeting to seal the crack at the base of the CMU wall in preparation for removing the fireproofing overspray on the bottom 1/3 of the wall. 3 workers in Room 283; 2 are doing general housekeeping and 1 is on mobile scaffolding wet wiping the ceiling components. 3 workers in the mechanical

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| _ N/A | Olympic South Levels 1/2/3 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith Date: 3/25/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/25/22 |
|---|--------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

mezzanine wet wiping ceiling components and water pipes. Corey is walking throughout the floor doing inspections of the cleaning process.

1030-1115 Workers break for lunch and return to work.

1300 Level 1: One PBS worker continues scanning documents from various areas as part of inventory document recovery process.

1330 Level 3: Five workers observed; 4 on ladders and mobile scaffolding wet wiping the ceiling components throughout the area and 1 worker is wet wiping down the outside of the electrical boxes and conduit.

1340 Level 2: Two workers in Room 283 HEPA vacuuming the floor and organizing equipment. 5 workers in Room 283 mechanical mezzanine on mobile scaffolding wet wiping and HEPA vacuuming the metal wall studs, pipes, and ceiling components. 2 workers in Room 283A wet wiping and HEPA vacuuming the metal wall studs. 1 supervisor is going throughout the floor checking on progress and bringing ACM bags to the loadout area.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS off site for the day, Corey will secure site and shutdown generators.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith

Date: 3/25/22



| | | | · | | | | |
|--|------------------|----------------------|---|--|------------------------|---------|--------|
| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | |
| PBS Site Observer(s): Clair Cameron Budnick | re Tsai, Gregg M | 1iddaugh, Peter St | ensland, | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 3/28 | | | /28/22 |
| | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Persor | inel: | | | | | | |
| Project Manager | Yes I | No Supervisor | Yes No | Summary Phase Status | : Level 1: No work occ | urring. | |
| Workers Yes No Name: Corey Foust | | | Level 2: Detail cleaning assoc. with PBS visual inspection. | | | | |
| How Many? +19 | | | | Level 3: Detail Cleaning | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Other Personnel on Sit | e: MacDonald Miller (N | MM) | | |

WORK DESCRIPTION: level 2: PBS inspecting throughout the level. Dickson workers accompany and respond to aeras in need of additional cleaning as identified. Level 3: Continued detail cleaning

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods - HEPA vacuuming, razor scraping, and wet wiping.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0700 One worker inside the level 3 containment loading in equipment through the decon chambers.

0730 One PBS person begins inspecting the ceiling throughout level 2.

0945 Level 2: Eleven workers in Room 284 doing detail cleaning throughout the space. PBS is visually inspecting ceiling components in Room 284 and the mechanical mezzanine. 2 workers are going through with the PBS employees and addressing things as they are found.

1030 PBS Project Manager Gregg Middaugh arrives to the site.

1030-1115 Workers break for lunch and return to work.

1130 Level 2: All PBS staff in area begin visual inspection starting from the north side of the building. 4 workers are following PBS and spot cleaning the punch list items. 8 workers are in 283 doing detail cleaning throughout the space. PBS visual inspection includes but not limited to inspecting fire system, ceiling components, wall studs and surfaces for visible dust; checking junction boxes and conduit into slab has been sealed.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| _ N/A | Olympic South Levels 2 & 3 |
| | |
| | |
| | 0 |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai Date: 3/28/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/28/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1300 PBS begins visually inspecting the mechanical mezzanine and the music rooms. A punch list has been made for the space north of the D line.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1545 PBS leaving site. Doors locked, PBS shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Claire Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai

Date: 3/28/22



| Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | | | |
|------------------------------|-----------------|--------|---|---------|----|--|-----------------------|---------------|--------|
| PBS Site Observer(s): Mi | ke Smith, Peter | Stens | land, Cameron | Budnick | | PBS Project No.: 40535. DES Project No.: 2021-1 | | Date: 3, | /29/22 |
| | | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Perso | nnel: | | | | | _ | | | |
| Project Manager | Yes | No | Supervisor | Yes N | lo | Summary Phase Status: | Level 1: No work occ | urring | |
| Workers | Yes | No | Name: Core | y Foust | | Level 2: Detail cleaning | assoc. with PBS visua | l inspection. | |
| How Many? + 20 | | | | | | Level 3: Detail cleaning | assoc. with PBS visua | l inspection. | |
| Air Monitoring Personne | on site: PBS/D | icksor | า | | | Other Personnel on Site | : MacDonald Miller (I | MM) | |

WORK DESCRIPTION: Level 2: PBS continues visual inspection throughout. Dickson workers accompany and respond to areas in need of additional cleaning as identified Level 3: PBS performing visual inspection. Dickson workers accompany and respond to areas in need of additional cleaning as identified.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods - HEPA vacuuming, razor scraping, and wet wiping.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0720 Level 3. Two workers in containment: 1 is preparing a HEPA vacuum and the other is trimming the plastic from the edges of a vent.

0830 Level 2: Two workers going throughout the space removing select sprinkler heads with a component that makes cleaning inaccessible. The sprinkler head is removed, water is drained into a poly bag below, the cover is removed, and sprinkler head is reattached and cleaned. 1 worker on the north side of the floor cleaning out debris from poly sheeting separating column penetrations between levels 1 and 2 with a HEPA vacuum. 2 workers in Room 283A removing cove base mastic along the base of the CMU wall. 3 workers in Room 283 wet wiping and HEPA vacuuming the metal studs and ceiling components. 1 PBS worker is on the scaffolding in Rooms 283/284 visually inspecting and identifying areas needing additional cleaning.

0930 Level 3: PBS visually inspecting area. 2 workers in containment cleaning items as they are marked by PBS during visual inspection.

1030-1115 Workers break for lunch and return to work.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| N/A | Olympic South Levels 2 & 3 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 3/29/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:3/29/22 |
|---|--------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1130 PBS reviewing itemized list, generated from PBS visual inspection performed on Monday (3/28), with Corey to confirm understanding of noted deficiencies.

1150 Level 2: Four workers are razor scraping smooth the base of each column cavity on the main floor. 2 workers are in Room 284 re-cleaning the second from the left ceiling joist. 2 workers are bagging and prepping waste for disposal. 2 workers are cleaning joists in Room 283.

1200 Level 3: PBS continues to visually inspect the containment. Two Dickson workers continue spot cleaning.

1230 Dickson transporting ACM bags with used cleaning supplies via forklift to the wate container in Parking Lot A

1300 PBS meet Karen Doten in Parking Lot A to return occupant contents. Dan Timmons (Pierce Coll.) present as witness.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

The individual signing certifies that the above information is correct and accurate.

Name: Mike Smith

Date:3/29/22



Date: 3/30/22

| D3 Liivii Oiliileiitai | ricia Obsciv | ation kept | | | | | |
|---|----------------------------------|-----------------|-----------------------|---|---------------------------|---------------|----------|
| Asbestos Contractor: Dic | kson | | Project Name: Olympic | South Abatement & R | epairs | | |
| PBS Site Observer(s): Claire Tsai, Cameron Budnick, Peter Stensland | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 3/30/22 | | | |
| | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nel: | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status: | : Level 1: Detail Cleanin | g | |
| Workers | /orkers Yes No Name: Corey Foust | | | | assoc. with PBS visual | inspection. | |
| How Many? + 20 | | | | Level 3: Final detail clea | an/ encapsulate | | |
| Air Monitoring Personnel | on site: PBS/Dickso | on | | Other Personnel on Site | e: MacDonald Miller (M | IM) | |
| METHOD OF REMOVAL: | Manual wet metho | ods – HEPA vacı | uuming, razor sc | raping, and wet wiping. | | | |
| METHOD OF BEMOVAL | Manual wat matha | de LIEDA vese | | raping and wat wining | | | |
| MEMOVAE. | Wallauf Wet Metric | 743 112177 4460 | duming, razor se | raping, and wet wiping. | | | |
| OBSERVATIONS: | workers are h | wing their m | orning most | ing to go over the sco | one of work for the | day Dickso | <u> </u> |
| | | • | • | 5 5 | • | • | |
| 5 | | • | | rence to the Olympic | South building. Pt | os conductir | ig air |
| nonitoring inside and | outside of wor | k areas inclu | aing HEPA e | knausted air. | | | |
| 630 PBS calibrating v | arious pumps t | o collect dai | ly PCM air sa | mples throughout site | 2. | | |
| | scraping mastic | and materia | als off the co | oists along areas prev ncrete column bases. | | | |
| 815 Level 1: One wor | | • | | t. A second worker is a | assisting. 3 worker | s in the E co | rner |
| 900 Level 3: PBS in co | ontainment witl | n 2 workers t | to visual clea | ning of the final punch | n list items. | | |
| | | | | | | | |

1030-1115 Workers break for lunch and return to work.

information is correct and accurate.

1130 Level 3: Two workers isolate electrical equipment from remaining containment. Contaminated electrical equipment will be removed once power is set up to MM temporary power and units can be shut off. Negative air machine attached to containment around electrical equipment. PBS visual inspection satisfactory. Worker's prep encapsulant for area. Additional white pigment added to encapsulant for visibility.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| N/A | Olympic South Levels 1/2/3 |
| | |
| | |
| · | Λα . |
| The individual signing certifies that the above | Signature: Claure Tstai |
| | / |

Name: Claire Tsai



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 3/30/22 |
|---|---------------------------|---------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1300 Level 2: All PBS staff on level continues visually inspecting roof components in 284, 284 and confirming remaining punch list items have been completed.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1530 PBS provide Corey revised punch list items needing completion prior to encapsulation of Level 2.

1545 PBS departs the site. Doors locked. Dan on site will shut off generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Clavice Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai

Date: 3/30/22



Date: 4/1/22

| Asbestos Contractor: Dickson PBS Site Observer(s): Peter Stensland, Cameron Budnick | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|--|----------------|--------|---|--------|------------------------|--------------------------|---------|----|
| | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 4/1/ | Date: 4/1/22 | | |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Persor | nel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status | : Level 1: Detail cleani | ng | |
| Vorkers Yes No Name: Corey Foust | | | Level 2: Dickson complete encapsulation of level | | | | | |
| How Many? + 19 | | | | | Level 3: Clearance sam | pling server area cont | ainment | |
| Air Monitoring Personnel | on site: PBS/D | icksor | 1 | | Other Personnel on Sit | e: MacDonald Miller (I | MM) | |

WORK DESCRIPTION: Level 1: Continued detail cleaning throughout the level. Level 2: Contractor completes encapsulation of the level. Level 3:

PBS collects aggressive TEM clearance samples associated with the server area containment.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods – HEPA vacuuming, razor scraping, and wet wiping.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Two workers (forklift spotter and operator) assisting with work efforts from exterior of containments.

0630 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0700 Level 2: Eight workers continue with encapsulating Level 2. 4 airless sprayers are being used throughout the level for encapsulant application. The encapsulation process was initiated 3/31 after lunch following Dickson's completion of punch list items generated by PBS.

0730 Level 1: Five workers observed in the containment. 2 workers are wiping down scaffolding by loadout. 1 is wiping down fire sprinkler line by the elevator. 1 worker in north area cleaning windowsills. The 5th is pulling remaining insulation from the studs along the south wall. PBS continue document recovery in scanning room.

0900 Level 3: PBS staging clearance samples inside and outside of the containment.

1000 Level 3: Two Dickson workers removing insulation from a metal stud along the west windows. After the insulation has been removed the workers will spray down the cavity with encapsulant.

1030-1115 Workers break for lunch and return to work.

information is correct and accurate.

| BUILDING/AREA/LOCATION | |
|----------------------------|----------------------------|
| Olympic South Levels 1/2/3 | |
| | |
| | |
| Signature: Pata Stendard | |
| | Olympic South Levels 1/2/3 |

Name: Peter Stensland



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/1/22 |
|---|-------------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1145 Level 1: Six workers observed in the containment. 1 worker is cleaning along the window frames, 1 worker is touching up around the fire mains, 2 workers are on a lift cleaning windows near the elevator shaft. 1 worker is wiping down equipment to be loaded out. 1 worker is doing general housekeeping.

1200 Level 3: The previously noted insulation has been removed from the metal studs along the windows and the cavities encapsulated. PBS initiates aggressive air clearance samples for southwest server area containment.

1300 Level 1: Seven workers observed in the containment. Work efforts consist of tasks previously noted.

Level 2: Seven workers on this level have finished the encapsulation process.

1400 Level 3: PBS begins collecting the clearance samples for the server area containment.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS departs the site. Corey will lock doors and shut down generator.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Par Stewlar

Name: Peter Stensland

Date: 4/1/22



| Asbestos Contractor: Dic | kson | Project Name: Olympic South Abatement & Repairs | | | |
|-----------------------------|---|---|--|--|--|
| PBS Site Observer(s): Clair | re Tsai, Cameron Budnick, Peter Stensland | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 4/4/ | | | |
| | | Page 1 of 2 Time 0600 | | | |
| Contractor on Site Person | nel: | | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: Level 1: Detail cleaning | | | |
| Workers | Yes No Name: Corey Foust | Level 2: Stage air clearance sample pumps | | | |
| How Many? + 19 | | Level 3: Awaiting clearance results | | | |
| Air Monitoring Personnel | on site: PBS/Dickson | Other Personnel on Site: MacDonald Miller (MM) | | | |

WORK DESCRIPTION: Level 1: Continued detail cleaning north to south. Level 2: touch-up encapsulant, stage air pumps for TEM clearance Sampling.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods - HEPA vacuuming, razor scraping, and wet wiping.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Two workers (forklift operator and spotter) assisting work efforts from exterior of containment.

0630 PBS continues document recovery process in the scanning room on Level 1.

0700 Level 2: Four workers going throughout the level to ensure encapsulant coverage. Areas are being touched-up, as needed, currently at the edge of Room 284.

0800 Level 1: Workers within the containment are focusing cleaning efforts from the north side of the containment methodically moving south. Cleaning includes razor scraping mastic and caulking off column bases, removing insulation at wall studs and wet wiping them, cleaning plumbing lines.

0900 Level 2: PBS inspects the encapsulant coverage throughout the level. PBS communicate to Corey metal structural bracing needs additional encapsulant inside. Workers in area will touch up encapsulant in metal bracing. 4 workers are removing the covers on the sprinkler heads and windows.

1030-1115 Workers break for lunch and return to work.

1130 Level 2: PBS begins setting up pumps and power cords for the air clearance. 2 workers assisting with setting up the equipment. All the windows and sprinkler heads are now uncovered.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| N/A | Olympic South Levels 1 & 2 |
| | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claire Tsai

Date: 4/4/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/4/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1200 Level 2: PBS pre calibrates the 12 pumps inside containment to 10 L/min.

1230 Level 1: Two workers razor scraping mastic off column near scanning room and wiping down pipes from water lines. 2 workers are on lifts cleaning fire lines with wet rags near the mechanical room containment. 6 workers are in the same location wiping down piping and razor scraping the concrete columns. 1 worker is by the loadout, adding fire stop to penetrations in the floor. 2 workers are along the wall north of the loadout, wiping down and removing insulation from the studs. 1 worker is adjusting the negative air and making sure the vent is properly sealed at the exhaust.

1300 PBS begins setting up the pumps outside of the containment for air clearance.

1410 Level 1: Thirteen workers in containment. All workers are at the west end of the floor. Workers tasks include wiping down piping and removing insulation from the studs.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1515 PBS shut down generator and leaving site. Doors locked.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Mulu Tsui
Name: Claire Tsai

Date: 4/4/22



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|-------------------|-------|---------------|---|--|---------------------------|----------|------|
| PBS Site Observer(s): Mik | ce Smith, Peter S | itens | land, Cameron | Budnick | PBS Project No.: 40535 DES Project No.: 2021- | | Date: 4/ | 5/22 |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Persor | nnel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status | : Level 1: Detail cleanir | ng | |
| Workers Yes No Name: Corey Foust | | | y Foust | Level 2: Initiate air clearance sampling | | | | |
| How Many? + 21 | | | | | Level 3 Air clearance p | ass – remove containn | nent | |
| Air Monitoring Personnel | on site: PBS/Did | ksor | 1 | | Other Personnel on Sit | e: MacDonald Miller (I | MM) | |

WORK DESCRIPTION: Level 1: Continued detail cleaning north to south. Level 2: Initiate TEM clearance sampling inside and outside of the

Containment. Level 3: Remove server area containment

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods – HEPA vacuuming, razor scraping, and wet wiping.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0620 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0630 Level 3 server area containment air clearance passed. Dickson advised of passing result. PBS continues document recovery process in the scanning room on Level 1.

0700 Level 3: Three workers are removing the containment poly and loading out supplies. Containment around electrical panels still in place.

0730 Level 1: Six workers are in the western portion of the floor wiping down the I-beams and sprinkler pipes with wet rags. 1 worker is scraping mastic from the bottom of a concrete column. 1 worker is wet wiping the remaining plumbing fixtures in front of the Mechanical Room containment. 1 worker is filling in penetrations in the floor with fire stop by the main (currently blocked off) east entrance. 2 workers are cleaning the fire sprinkler assemblies from scissor lifts. 11 workers observed in containment.

Level 2: PBS initiates aggressive TEM air clearance samples.

0930 Level 2: PBS begins collecting the TEM air clearance samples.

| ITEMS OF CONCERN: None | | |
|--|----------------------------|--|
| CHANGES IN SCOPE: None | | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION | |
| N/A | Olympic South Levels 1/2/3 | |
| | | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 4/5/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/5/22 |
|---|--------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Mike Smith | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1000 Level 1: Six workers on ladders and scissor lifts wiping down plumbing and fire lines with wet rags. 1 worker along the west wall is brushing remaining insulation off the wall. 2 workers are cleaning the plumbing and fixtures outside the Mechanical Room containment. 1 worker cleaning mastic off the base of the stairs. 1 worker HEPA vacuuming dust across the floor. 11 workers observed in containment.

1030-1115 Workers break for lunch and return to work.

1200 Level 3: PBS collects microvac dust samples in the southwest portion of the level.

1230 Roof: Two workers are loading negative air machines, extension cords, spider boxes and temporary structures associated with Level 3 work into a forklift bin. 1 worker below is operating the forklift.

1300 One worker in Parking Lot A loading non-contaminated construction debris into the general waste container with the forklift.

1400 Level 1: Three workers are discussing scaffolding setup for the stairs to Level 2. 1 worker is HEPA vacuuming next to the Mechanical Room containment. 1 worker is checking the west wall for any remaining insulation in the studs. 1 worker is cleaning up equipment from today. 1 worker is scraping debris off a stretch of plumbing. 2 workers are removing insulation from the east wall in the kitchen area. 3 workers are packing bags of dirty rags to be loaded out.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1445 PBS leaves site. Corey will shut down generators and lock doors

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature:

Name: Mike Smith

Date: 4/5/22



| Asbestos Contractor: Dic | kson | | | Project Name: Olympic South | Abatement & F | Repairs | |
|--|--------------------------|---|--------------------------------|------------------------------|-------------------|-------------------|--------|
| PBS Site Observer(s): Claire Tsai, Peter Stensland, Cameron Budnick, Gregg Middaugh | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 4/6, | /22 | | |
| | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nel: | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status: Level | 1: Detail cleanir | ng, prep stair to | wer |
| Workers | Yes No Name: Corey Foust | | Level 2: Microvac surface clea | rance sampling | | | |
| How Many? + 18 | | | | Level 3: No work occurring | | | |
| Air Monitoring Personnel | on site: PBS/Dickson | า | | Other Personnel on Site: Mac | Donald Miller (N | ИМ), Charlene V | Wilson |

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods – HEPA vacuuming, razor scraping, and wet wiping.

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0620 PBS calibrating various pumps to collect daily PCM air samples throughout site.

0700 Three workers at the top of the east stairwell removing carpet, light fixtures and doors in preparation for the stairwell abatement.

0715 Level 1: One worker is cleaning insulation off the studs from scaffolding on the stairs to Level 2. 1 worker is on a lift at the Mechanical Room enclosure cleaning the conduit. 1 worker is across from the loadout on a lift, wiping and scrubbing down a section of fire line. 4 workers are along the west wall removing insulation from the studs. 1 worker is organizing equipment for future removal.

0830 Three workers prep cleaning area in connex to reclean contents and 6 tricycles from shed in playground.

0840 PBS Project Manager Gregg Middaugh on site.

0900 PBS prepares Versa Vac for return to the school and checks in on contents in the Connex's.

Todd L and Charlene W on site to walk playground and discuss scope of work with PBS and Dan.

1000 Walk east stairwell with Todd, Charlene, Dan, and PBS to clarify questions on scope of work.

1030-1115 Workers break for lunch and return to work.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| _ N/A | Olympic South Levels 1 & 2 |
| | |
| | |
| | 0 |

The individual signing certifies that the above information is correct and accurate.

Signature: (laure Tsai Name: Claire Tsai Date: 4/6/22



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date:4/6/22 |
|---|---------------------------|-------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1200 Level 2: PBS collects representative microvac surface dust samples throughout the level.

1310 Level 1: One worker is wiping down fire lines in front of the scanning room in the north area. 1 worker is scraping mastic from columns in the north area. 3 workers are removing insulation from the southeast corner of the level. 4 workers are removing mastic from the edge of the elevator shaft.

1330 Stairwell: Two workers at the bottom of the stair tower removing the remaining portions of the carpet. Bagging them and loading them into the forklift bin for transport to waste container in parking lot A.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1530 PBS shut down generator and leaving site. Doors locked.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: August Tagus

Name: Claire Tsai Date: 4/6/22



Date: 4/7/22

| Asbestos Contractor: Dickson | | Project Name: Olympic South Abatement & Repairs | | |
|---|---|---|--------------------------|--|
| PBS Site Observer(s): Clai | re Tsai, Peter Stensland, Cameron Budnick | PBS Project No.: 40535.488 DES Project No.: 2021-192 | Date: 4/7/22 | |
| | | Page 1 of 2 | Time 0600 am | |
| Contractor on Site Person | nel: | | | |
| Project Manager | Yes No Supervisor Yes No | Summary Phase Status: Level 1: Co | ntinued Detail Cleaning. | |
| Workers | Yes No Name: Corey Foust | Stairwell: Begin Carpet/ Mastic Ren | noval | |
| How Many? +18 | | Levels 2 & 3: No work occurring | | |
| Air Monitoring Personnel on site: PBS/Dickson | | Other Personnel on Site: MacDonald Miller (MM). Wayne's Roofing | | |

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: Manual wet methods – HEPA vacuuming, razor scraping, and wet wiping.

OBSERVATIONS:

information is correct and accurate.

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0630 PBS calibrating various pumps to collect daily PCM air samples.

0730 Stairwell: PBS documents the Level 1 closet contents and uploads the photos to Smartsheet before Dickson disposes of the items.

PBS continues document recovery process in scanning room on LV1.

0715 Level 1: One worker is organizing equipment. 6 workers are on the east end of the floor wet wiping studs. 1 worker is wet wiping fire lines at the 1st floor northeast entrance. 1 worker is HEPA vacuuming the bottom of the elevator shaft and 1 worker entered containment and is scraping out insulation. 10 workers observed in containment.

0800 Stairwell: Dickson sets up two negative air machines that exhaust out of the Level 1 doorway.

0930 Stairwell: Two workers on the Level 2 landing, 1 is using a grinder to remove the carpet mastic from the floor. The other worker is using a HEPA vacuum to pick up the dust from the floor. The containments on the second and third floors are segregated and sealed off.

1000 Level 1: One worker on the scissor lift wiping down conduit and fire sprinkler lines. 2 workers are HEPA vacuuming dust from around columns that have been scraped free of mastic. 1 worker is removing insulation from the studs along

| ITEMS OF CONCERN: None | |
|--|-------------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| N/A | Olympic South Level 1 and stairwell |
| | |
| | |
| The individual signing certifies that the above | Signature: Clavia Tsai |

Name: Claire Tsai



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/7/22 |
|---|---------------------------|--------------|
| Abatement Contractor: Dickson | PBS Observer: Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

the north wall. 1 worker is cleaning the fire sprinkler lines with a wet rag at the Mechanical Room. 1 worker is bagging debris for removal. 2 workers are cleaning the bottom of the elevator shaft. 1 is under the stairs scraping mastic.

1030-1115 Workers break for lunch and return to work.

1300 PBS collect bulk samples from exterior column gypsum on Level 1 exterior.

Two Dickson workers are loading remaining negative air machines and temporary wood shelters down from the roof via forklift. Forklift operator and Corey are on the ground in the area. Wayne's Roofing is on site on the roof inspecting for potential leaks.

1320 Level 1: One worker in the east corner of the floor on a lift cleaning the sprinkler pipe runs. 3 workers along the wall, cleaning insulation from the studs. 1 worker is at the scanning room on a lift, wet wiping down the fire lines. 3 workers are cleaning the elevator shaft and removing mastic from the edges. PBS walk through level 1 with Corey to note a few additional items that need to be removed (junction boxes, unsecure framing, door stop, etc.)

1400-1500 Weekly construction meeting with project team.

1415 Workers decontaminate out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1600 PBS leaving site. Shut Generator off. Doors locked.

Good negative pressure is indicated on all floors of the Olympic South Building.

PBS inside and outside work area air monitoring conducted thus far have not yielded concentrations of concern.

Signature: Claire Tsai

Date: 4/7/22



| Asbestos Contractor: Die | ckson | | | | | Project Name: Olympic | c South Abatement & R | epairs | |
|--|---|--------|---------------|---------|----------|--|---------------------------|--------------|---------|
| PBS Site Observer(s): Mik | ce Smith, Peter | Stens | land, Cameror | Budnic | k | PBS Project No.: 40535 DES Project No.: 2021- | | Date: 4/ | 8/22 |
| | | | | | | Page 1 of 1 | Time | 0600 | am |
| Contractor on Site Persor | nnel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status | s: Level 1: PBS scanning. | Prep for tem | p power |
| Workers | | | | | | Level 2: Load out nega | itive air machines and e | quipment | |
| How Many? +4 | | | | | | Level 3: No work occur | rring. | | |
| Air Monitoring Personnel | Air Monitoring Personnel on site: PBS/Dickson | | | | | Other Personnel on Sit | te: MacDonald Miller (M | M) | |
| METHOD OF DEMOVAL | . NI / A | | | | | | | | |
| WORKER PROTECTION: | N/A | | | | | | | | |
| METHOD OF REMOVAL | : N/A | | | | | | | | |
| OBSERVATIONS: | | | | | | | | | |
| 1600 Dickson and MM | 1 workers or | n site | for power | transfe | r to te | mporary power. | | | |
| 0630 PBS calibrating v | arious pum | ps to | collect dai | ly PCM | l air sa | mples. | | | |
| 7700 Level 1: PBS concepting the conduits | | | | | | nning area. 2 workers | s are assisting one I | MM electri | cian in |
| 1830 Level 2: Two wor | kers loadin | g out | equipmen | t and s | ealing | up the holes from th | e negative air exha | ust tubes. | |
| 000 Level 1: Two wor now that MM has cut ape. | | _ | | | | • | | | |
| 030 Level 1: MM swit | tches the bu | ildin | g over to te | mpora | ary pov | ver. | | | |

1215 Level 2: Four workers continue to load out negative air machines and equipment from the level

1330 Dickson workers leaving site for the day. PBS continues document recovery process on level 1.

1445 PBS off site for the day. Doors locked, Generator off.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| _ N/A | Olympic South Levels 1 & 2 |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Mike Smith Date: 4/8/22



| Asbestos Contractor: Dickson | | | | | Project Name: Olympic | South Abatement & F | Repairs | | |
|---|--|--------------------------|-----------|------------|---|---------------------------|----------------|-----------------|--|
| PBS Site Observer(s): Cla | aire Tsai, Peter Ste | ensland | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 4, | Date: 4/11/2022 | |
| | | | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Perso | nnel: | | | _ | | | | | |
| Project Manager | Yes I | No Supervisor | Yes | No | Summary Phase Status | : Level 1: Detail cleanin | ng Level 2: No | work | |
| Workers | Yes | No Name: Co | ey Foust | : | Level 3: No work | | | | |
| How Many? + 15 | | | | | East Stairwell: pre abat | ement prep. | | | |
| Air Monitoring Personne | l on site: PBS/Dic | kson | | | Other Personnel on Site: MacDonald Miller (MM) | | | | |
| | | | | | | | | | |
| WORK DESCRIPTION: L server floor containment East Stairwell: pre abater | previously cleare | | eaning (w | vet wipe a | and HEPA vacuuming) Leve | el 3: Remove remaining | g poly sheetin | g from | |
| server floor containment | previously cleare ment prep | d. | | • | and HEPA vacuuming) Leve | el 3: Remove remaining | g poly sheetin | g from | |
| server floor containment East Stairwell: pre abater | previously cleare ment prep | d. | | • | and HEPA vacuuming) Leve | el 3: Remove remaining | g poly sheetin | g from | |
| server floor containment East Stairwell: pre abater | previously cleare ment prep : ½ face respirato | d. r, Tyvek, safety b | oots, har | rd hat | | el 3: Remove remaining | g poly sheetin | g from | |
| server floor containment East Stairwell: pre abater WORKER PROTECTION | previously cleare ment prep : ½ face respirato | d. r, Tyvek, safety b | oots, har | rd hat | | el 3: Remove remaining | g poly sheetin | g from | |

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air. Three workers assisting with operations from outside containment (forklift spotter and operator one bring supplies to containment as needed)

0730 Level 1: One worker at the top of the stairs HEPA vacuuming the landing. Four workers along the north wall wet wiping and HEPA vacuuming the metal studs. One worker is scraping mastic off the base of the concrete columns NE of the mechanical room. Two workers loading metal studs from the mechanical room into a mega box for loadout.

0830 Two workers remove remaining poly sheeting from previously cleared level 3 containment in southwest server floor area.

0930 Level 1: Two workers along the east wall wet wiping the metal studs and water pipes. One worker removing mastic from the concrete wall line south of the scan room. Three workers east of the mechanical room removing excess wires and metal screws from the ceiling. Two workers along the north wall wiping and HEPA vacuuming the metal studs.

1000 PBS walk Level 1 south and east elevations with Corey. PBS communicate which columns have ACM joint compound that Dickson will be removing.

1030-1115 Workers break for lunch and return to work.

| ITEMS OF CONCERN: None | |
|--|--------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| NA | Olympic South Levels 1/3 |
| | |
| | |
| | Na : - |

The individual signing certifies that the above information is correct and accurate.

Signature: (Mull Tosus Name: Claire Tsai Date 4/11/2022



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/11/2022 |
|---|--------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1215 Dickson fuel truck on site refilling the fuel cube and generator, one united rentals worker servicing the portable restrooms.

1300 PBS meet Charlene W in Parking Lot A to return contents to Room 281 occupant.

1345 Level 1: Six workers on the north half of the floor. Three are wet wiping the ceiling components and metal wall studs, two are scrapping mastic off of the concrete and pipes, one worker is breaking school keys in half before they are disposed of. PBS photo document destruction of keys prior to disposal. One worker on the south side of the floor removing bulk material from the demolished stairway.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1440 MM leaving site for the day.

1500 PBS leaving site for the day. Corey still on site will shut generators off and secure site.

Signature: Clause T sai Name: Claire Tsai

The individual signing certifies that the above information is correct and accurate.

Date 4/11/2022



Date 4/12/2022

| PBS Site Observer(s): Peter Stensland | | | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 4, | Date: 4/12/2022 | |
|---|-------------------|--------|-----------------|-----------|-----------|---|-------------------------|-----------------|-----------------|--|
| | | | | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Perso | nnel: | | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: | Level 1: Detail cleanir | ng | | |
| Workers | Yes | No | Name: Core | y Foust | | Level 2: No work. Level | 3: Demo/abatement i | n electrical co | ntainmen | |
| How Many? + 17 | | | | | | Exterior: Playground Demo/PCI scaffolding | | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | | | Other Personnel on Site | : MacDonald Miller (N | им), PCI | | |
| Air Monitoring Personne | | | | | | | | | | |
| | evel 1: Detail cl | eaning | g throughout le | evel. Lev | vel 3: De | mo electrical panels. Exterio | r: Playground genera | l demo | | |
| | | | | | | mo electrical panels. Exterio | r: Playground genera | l demo | | |

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting air monitoring inside and outside of work areas including HEPA exhausted air.

0700 4 PCI workers setting up scaffolding beneath the skybridge from Olympic South to Cascade

0800 Level 3: Three workers inside the electrical room containment using sawzalls to cut metal studs and electrical conduits for removal.

0820 South Exterior: Five workers are demolishing playground equipment, one worker is spraying down the area with a water hose, two workers are loading stored items from the shed into the forklift bin which is emptied into the waste container, one operator uses an excavator to demolish the play structures.

0930 Level 2: PBS walks through the mechanical mezzanine with Corey to note components in need of additional cleaning due to elevated surface dust sample associated with PBS clearance process.

1030-1115 Workers break for lunch and return to work.

information is correct and accurate.

1130 South Exterior: Four workers continuing with demolition of the outdoor structures (currently working on removing the Robins nest shed). All the contents inside the storage shed by the negative air machines and Robins nest has been emptied and disposed of.

| ITEMS OF CONCERN: None | |
|--|-----------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| N/A | Olympic South Levels 1/3/Exterior |
| | |
| | |
| The individual signing certifies that the above | Signature: Peter Stewbar |

Name: Peter Stensland



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/12/2022 |
|---|------------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1200 Level 3: Two workers in the supply plenum removing large blank conduit that runs from previous server room to Olympic North skybridge, each section is uncoupled taped over and removed to prevent contamination. Workers have HEPA vacuum in use.

1330 South Exterior: 5 workers continue playground demo, one worker is operating the excavator demoing the hanging rope play structure, one worker operating the forklift with waste container. Three workers on the ground spotting and spraying down the area with water.

1400 Level 1: One worker HEPA vacuuming the HEPA vacuums in order to change out the filters. Three workers along the west wall south of the mechanical room wet wiping and HEPA vacuuming the metal studs. Four workers in the middle of the floor wet wiping pipes and hangers. One worker along the north wall doing spot checks on cleaning.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS off site. Corey still on site will shut off generator and secure site.

Signature: Pata Stenstan



| Asbestos Contractor: Die | :kson | | | Project Name: Olympic South Abatement & Repair | rs . | | | |
|---|--|---|--|---|-----------------------------|--|--|--|
| PBS Site Observer(s): Clai | re Tsai, Peter Stens | land | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | Date: 4/13/2022 | | | |
| | | | | Page 1 of 2 Time | 0600 am | | | |
| Contractor on Site Persor | nel: | | | | | | | |
| Project Manager | Yes No | Supervisor | Yes No | Summary Phase Status: Level 1: Continue detail cle | aning. Level 2: | | | |
| Workers | Yes No | Name: Corey F | oust | Reclean mechanical mezzanine studs Level 3: Remo | ove conduit | | | |
| How Many? + 17 | | | Playground: Demo. Stairwell: PCI set up scaffolding. | | | | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | r layground. Demo. Stan Well. I er set ap scarrolaing | | | | |
| WORK DESCRIPTION: Le | vel 1: Continue de | ail cleaning south | | Other Personnel on Site: MacDonald Miller (MM), F | <u> </u> | | | |
| <u> </u> | vel 1: Continue del ectrical conduit. Pla | ail cleaning south yground: Demolisl | structures | Other Personnel on Site: MacDonald Miller (MM), F | <u> </u> | | | |
| WORK DESCRIPTION: Lesstuds. Level 3: Remove ele | evel 1: Continue der ectrical conduit. Pla ½ face respirator, | ail cleaning south yground: Demolish yvek, safety boots | structures | Other Personnel on Site: MacDonald Miller (MM), F | <u> </u> | | | |
| WORK DESCRIPTION: Lesstuds. Level 3: Remove els | evel 1: Continue der ectrical conduit. Pla ½ face respirator, | ail cleaning south yground: Demolish yvek, safety boots | structures | Other Personnel on Site: MacDonald Miller (MM), F | <u> </u> | | | |
| WORK DESCRIPTION: Lesstuds. Level 3: Remove eleworker PROTECTION: METHOD OF REMOVAL: OBSERVATIONS: | evel 1: Continue der ectrical conduit. Pla ½ face respirator, wet methods man | ail cleaning south yground: Demolish yvek, safety boots ual and saws | n structures , hard hat | Other Personnel on Site: MacDonald Miller (MM), F | cal mezzanine | | | |
| WORK DESCRIPTION: Lesstuds. Level 3: Remove eleworker PROTECTION: METHOD OF REMOVAL: OBSERVATIONS: 500 Dickson and MIV | evel 1: Continue det ectrical conduit. Pla ½ face respirator, wet methods man | ail cleaning south yground: Demolish yvek, safety boots ual and saws | n structures , hard hat ning mee | Other Personnel on Site: MacDonald Miller (MM), F | zal mezzanine y. Dickson | | | |

0700 South Exterior: Five workers, one is operating an excavator demolishing the central play shed, two workers are helping to spot / pick up small debris, one worker is spraying down the area with a hose, one worker is operating the forklift with tip bin to load the debris into the general debris waste container.

0745 Level 1: Three workers on the south side of the floor wet wiping the metal studs and I beams. One worker wet wiping the pipes and concrete floor east of the mechanical room. One worker is going throughout the floor directing workers and inspecting progress.

0910 Retriever on site dropping off equipment for playground demo/maintenance.

0920 PBS Mike Bagley on site to collect samples from unknown liquid in barrel found in playground.

0930 Level 3: PBS performs visual inspection of electrical containment, visual inspection unsatisfactory. Areas communicated for additional cleaning.

1030-1115 Workers break for lunch and return to work.

1210 Level 1: PBS scans last set of documents associated with document recovery process in scanning area. Six workers observed in containment. One worker assembling scaffolding at top of stairs to level 2. Five workers detail cleaning south

| ITEMS OF CONCERN: None | |
|--|-------------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| N/A | Olympic South Levels 1/2/3/Exterior |
| | |
| | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai Date 4/13/2022



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/13/2022 |
|---|---|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai/ Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

of mechanical room, 1 worker HEPA vacuuming the floor, 1 wet wiping wall studs, 1 scraping cove base mastic from base of concrete columns, 1 detail cleaning pipes with wire brush, 1 detail cleaning piping associated with fire sprinkler system.

1215 Level 2: Two workers in the mechanical mezzanine wet wiping and HEPA vacuuming along the base of the metal wall studs.

1225 Skybridge: Two workers creating a new wooden entryway doorway from the scaffolding through the removed window onto the skybridge.

1240 Level 3: Two workers preparing to remove the conduit associated with electrical panels on level 3.

1300 Level 2: Two workers on the mechanical mezzanine vacuuming out a wall cavity and doing final detail cleaning.

1330 Level 3: Two workers in the supply plenum removing additional conduit pieces that are now deenergized. Each section has its clamps unscrewed, cable cut, and the ends are taped over, and the area is HEPA vacuumed.

1340 PBS visual inspection of mechanical mezzanine wall studs satisfactory. Workers will encapsulate tomorrow morning.

1400 South Elevation: Two workers, one is operating the excavator one is spotting / picking up small debris from the demolition of the playground slide.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1540 PBS shut down generator and leave site. Doors locked.

Signature: Clavice Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai Date 4/13/2022



Date 4/14/2022

| Asbestos Contractor: Di | ckson | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|----------------|-------|------------|--------|---|---------------------------|-----------------|-----------------|--|
| PBS Site Observer(s): Claire Tsai, Peter Stensland | | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 4, | Date: 4/14/2022 | |
| | | | | | Page 1 of | Time | 0600 | am | |
| Contractor on Site Person | nnel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status | : Level 1: Detail cleanir | ng. Level 2: En | capsulate | |
| Workers | • | | | | mechanical mezzanine. Level 3: remove electrical conduit. | | | | |
| How Many? + 17 | | | | | Stairwell: PCI scaffoldin | g set up. Playground: | structure den | าด | |
| Air Monitoring Personne | on site: PBS/D | ickso | า | | Other Personnel on Site: MacDonald Miller (MM) | | | | |

WORK DESCRIPTION: Level 1: Dickson continue detail cleaning. MM mark electrical equipment for Dickson to demo. Level 2: Dickson encapsulate mechanical mezzanine studs. Level 3: Dickson remove electrical conduit in supply plenum. Stairwell PCI finish scaffolding set up. Exterior Playground demo/landscaping maintenance.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

information is correct and accurate.

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting daily PCM air monitoring.

0700 Level 2: One worker at 284 doorway removing old tape and residual spray adhesive from previous negative air machine set up. One worker is on the mezzanine spraying encapsulant. PBS notes a few additional spots that need additional coverage.

0745 Level 2: One worker continues 284 removing old tape and residual spray adhesive. One worker is on the mezzanine spraying encapsulant on the areas that needed additional coverage.

0815 Level 3: Two workers removing electrical conduit from the supply plenum by uncoupling the segments, taping over the ends and HEPA vacuuming the area.

0830 Le May is dropping off a new general waste container to be used for the playground demolition.

0900 Level 1: PBS removes the hard drive from the printer/scanner and gives Dickson the okay to demolish the scanning room and dispose of all the contents within. One worker is loading the papers / filing cabinets from the scanning room into a mega box for disposal. Two workers along the west wall wet wiping and HEPA vacuuming the base of the studs. Five workers along the south side of the floor wet wiping and HEPA vacuuming the metal studs and water lines.

South Exterior: One operator and one worker continue playground demo. Water in use for dust control.

| ITEMS OF CONCERN: None | | |
|--|-------------------------------------|--|
| | | |
| CHANGES IN SCOPE: None | | |
| | | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION | |
| Electrical conduit from Level 3 | Olympic South Levels 1/2/3/Exterior | |
| | | |
| | | |
| The individual signing certifies that the above | Signature: Ullive Type | |

Name: Claire Tsai



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/14/2022 |
|---|---|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai/ Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1030-1115 Workers break for lunch and return to work.

PBS enter Level 1 mechanical room with Corey. Dan and MM electrician in area. MM electrician marking electrical equipment in mechanical room safe for Dickson to demolish with green spray paint. Conduit remaining with power flagged with red danger tape.

1145 Level 2: PBS starts a PCM air sample for the mezzanine. Four workers are disassembling and loading out the scaffolding from Room 283/284.

1230 MM employee on site to measure roof hoods to build sheet metal caps.

1245 South Exterior: Two workers doing yard keeping around the demolished play area, picking up scrap pieces of wood and using a weed wacker to cut back the overgrown vegetation. One worker is loading out ladders, HEPA vacuums, and extension cords from the first-floor loadout area.

1310 PBS walks level 1 columns with Todd L and Corey.

1315 Level 2: PBS begins moving the pumps from level 2 to level 3 in preparation for running an AHERA clearance in the level 3 electrical room containment. PBS collects the PCM air sample from the mezzanine.

1400-1500 Weekly construction meeting with project team.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1535 PBS leaving site. Corey still on site will shut off generator and secure site.

Signature: Classic T Sui



Date 4/15/2022

| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | | | | |
|---------------------------------------|--|----------|--|---|---------|---|--------------------|------------------------|-----------------|------|
| PBS Site Observer(s): Peter Stensland | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | Date: 4, | Date: 4/15/2022 | | | |
| | | | | | Page 1 | of 2 | Time | 0600 | am | |
| Contractor on Site Persor | nnel: | | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summar | ry Phase Status: I | evel 1: Detail cleanin | ng/electrical d | emo. |
| Workers | Yes No Name: Corey Foust Level 2: No work. Level 3: Final detail clean/encapsulate | | | | | | | | | |
| How Many? + 16 | | | | | | Stairwell: Continue prep. Playground: landscaping/maintenance | | | | |
| Air Monitoring Personnel | on site: PBS/[| Dickso | า | | | Other Personnel on Site: MacDonald Miller (MM) | | | | |
| | | | | | | | | | | |
| WORK DESCRIPTION: Le | evel 1: Dickson | conti | nue detail clea | ning thro | oughout | and begin | demo of electric | al equipment in mec | hanical room. | |
| Level 3: Dickson final det | ail clean of spa | ce. Ex | terior Playgrou | nd lands | caping | maintenanc | e. | · | | • |
| WORKER PROTECTION: | ½ face respira | ator, Ty | vek, safety bo | ots, hard | l hat | · | | | | · |

information is correct and accurate.

OBSERVATIONS:

METHOD OF REMOVAL: wet methods manual and saws

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting daily PCM air monitoring.

0700 South Exterior: Three workers doing a final cleanup of the playground area, flattening out dug up areas, trimming back the grass / bushes and filling in track marks in the dirt.

0830 Level 2: PBS visually insects the encapsulant on the mezzanine and collects microvac dust samples from recleaned area.

0900 PBS visually inspects and collects microvac samples from cleaned tricycles in the conex, recovered from a playground shed as requested by the college.

1000 Level 3 Electrical Room: PBS visually inspects the containment and communicates punch list of items in need of additional cleaning.

1030-1115 Workers break for lunch and return to work.

1200 Level 3: Three workers detail cleaning in the electrical room, wet wiping the inside of conduits, scraping residual mastic off of the floor and resealing some of the conduits from underneath in the supply plenum.

1300 Level 3: PBS visually inspection satisfactory. One worker begins spraying encapsulant with an airless sprayer.

| ITEMS OF CONCERN: None | |
|---|-----------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | Olympic South Levels 1/3/Exterior |
| | |
| | |
| The individual signing certifies that the above | Signature: Peter Stendard |

Name: Peter Stensland



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/15/2022 |
|---|------------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1330 South Exterior: Two workers, one is using the excavator to lift up one track at a time off the ground, the other worker is cleaning off the tracks with water.

1400 Level 1: Three workers bagging debris from the electrical wall demo in the mechanical room. One worker going throughout the floor organizing equipment and inspecting cleaning process. Four workers on the south side of the floor wet wiping and HEPA vacuuming pipes and metal wall studs.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS off site, Corey still on site, will shut off generator and secure site.

Signature: Peter Stewlard



| Asbestos Contractor: Di | Asbestos Contractor: Dickson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|------------------------------|----|--|---|---------------------------|------------------------|----------------|--------|
| PBS Site Observer(s): Claire Tsai, Peter Stensland | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 4/ | | | | |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nnel: | | | | Summary Phase Status: | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Level 1: Detail cleaning/ | begin exterior colum | n gypsum rem | noval. |
| Workers | Yes | No | Name: Core | y Foust | Level 2: No work. Level 3 | 3: Electrical containm | ent PBS cleara | ince |
| How Many? + 16 | | | | | Stairwell: Continue prep | Playground: No wor | k. | |
| Air Monitoring Personnel on site: PBS/Dickson | | | Other Personnel on Site: MacDonald Miller (MM) | | | | | |

WORK DESCRIPTION: Level 1: Dickson continue detail cleaning. Level 3: PBS run clearance for electrical room containment.

Exterior Playground landscaping maintenance. Stairwell: continue prep for abatement

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting daily PCM air monitoring.

0700 Level 3: PBS begins setting up the air samples for the electrical room AHERA clearance, the covers on the sprinkler heads are removed and all excess equipment is loaded out.

0830 South Elevation: One worker setting up drop cloths and visual barriers around exterior columns in need of gypsum wallboard removal.

Workers loading out scaffolding equipment from Level 2 via east skybridge window into forklift bin.

0900 PBS sort contents in connex and prep items to be returned to owner.

0915 Level 3: PBS begins the AHERA air clearance.

0945 Exterior: One worker on the SW corner of the building HEPA vacuuming column cavity, gypsum wallboard has already been removed. Area regulated with banner tape and visual barrier surrounds area. Interior of building isolated with poly sheeting from the inside. One worker wrapping conduit in poly sheeting for loadout.

1000 Level 1: Three workers along the south side of the floor wet wiping the bathroom pipes and securing new visual barriers to the windows. One worker to the south of the loadout wet wiping the window frames. One worker spraying

| ITEMS OF CONCERN: None | | |
|--|-----------------------------------|--|
| | | |
| CHANGES IN SCOPE: None | | |
| | | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION | |
| NA | Olympic South Levels 1/3/Exterior | |
| | | |
| | | |
| | 0. | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claire Tsai

Date 4/18/2022



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/18/2022 |
|---|---|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai/ Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

down the mega box contents with an airless sprayer as well as misting the air around the wallboard removal near the deacon area. One worker removing gypsum wallboard from the column just south of the deacon area.

1030-1115 Workers break for lunch and return to work.

1130-1230 Two workers return general contents from connex in parking lot A to Cascade Room 533 PBS continue sorting occupant contents in preparation for their return to owner.

PBS begins collecting Level 3 air clearance samples.

1330 Level 3: PBS collects micovac samples of third floor electrical room containment.

1400 Stairwell: Two workers taping the joints of the scaffolding to ensure that no debris falls inside of the openings during the demolition.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day. PBS leaving site. Corey and MM still on site will shut down generator and secure site.

Signature: Clavie Tsai

The individual signing certifies that the above information is correct and accurate.

Name: Claire Tsai

Date 4/18/2022



| Asbestos Contractor: Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|---|------|----|------------|---|---|---------------------------|------------------------|------------|----------|--|
| PBS Site Observer(s): Peter Stensland | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 4/19/2 | | | | | | |
| | | | | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Person | nel: | | | | | Summary Phase Status | : | | | |
| Project Manager | Yes | No | Supervisor | Yes N | 10 | Level 1: Detail cleaning, | continue exterior colu | ımn gypsum | removal. | |
| Workers | Yes | No | Name: Core | y Foust | | Level 2: Misc. encap. to | uchup. Level 3: No wo | rk | | |
| How Many? +13 | | | | | | Stairwell: Continue prep | Playground: No wor | ζ. | | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | Other Personnel on Site: MacDonald Miller (MM) | | | | | | |

WORK DESCRIPTION: Level 1: Dickson continue detail cleaning. PBS preliminary visual inspection. Exterior column gyp removal.

Stairwell: continue prep for abatement Level 3: fall protection installation

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting daily PCM air monitoring.

0700 South Exterior: One worker inside the regulated area along the S side of the building removing GWB from an exterior column. Area regulated with banner tape, poly sheeting in use as visual barrier.

0800 Level 2: One worker applying encapsulant at the entryway and decon floor (which were previously covered with poly).

0815 Level 3: Two workers installing safety railings along the edge of the old server floor, drilling the wood frames into the floor. Additionally, a more permanent fall protection barrier is being installed along the hole in the GWB / Marble Crete between LVL 2 and LVL 3.

0830 Level 1: One worker removing the automatic door opening mechanism and conduit from the NE doorway. One worker wrapping the old loadout doorway with new poly (the loadout enclosure has now been removed). Three workers along the south wall wiping out the insides of the columns. Two workers inside the mechanical room removing GWB and fiberglass insulation from the western wall. One worker going throughout the floor HEPA vacuuming the area. PBS begins visually inspecting the first floor on the north side and finds dust resettling on the tops of the pipes and some mastic that needs to be scraped off the floor.

0930 Level 1: Two workers begin cleaning the areas that PBS has noted on the punch list.

| ITEMS OF CONCERN: None | | |
|--|-------------------------------------|----------------|
| | | |
| CHANGES IN SCOPE: None | | |
| | | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION | |
| NA | Olympic South Levels 1/2/3/Exterior | |
| | | |
| | | |
| The individual signing certifies that the above | Signature: Petr Stewlard | |
| information is correct and accurate. | Name: Peter Stensland | Date 4/19/2022 |



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/19/2022 |
|---|------------------------------|-----------------|
| Abatement Contractor: Dickson | PBS Observer Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1015 Level 1: PBS begins a smoke test, it took approximately 30 minutes for the smoke to clear out, airflow showed the smoke moving towards the exhausting negative air machines, but there were a few dead spots along the walls and in corners. Dickson is adding two more exhausting negative air machines to the first floor and air scrubbers to increase air flow and circulation.

1030-1115 Workers break for lunch and return to work.

1130 Level 1: PBS continues visual inspection on the first floor and marking items for detail cleaning.

1300 South Exterior: PBS visually inspects the column where gypsum was removed on the SW corner of the building. Visual inspection unsatisfactory, areas in need of additional cleaning communicated to Dickson.

1400 Stairwell: Two workers in the stairwell taping up the seams of the scaffolding, laying poly on the floor and preparing the space for abatement.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Signature: Pala Stenslan



| sbestos Contractor: Dickson | | | | | Project Name: Olympic | South Abatement & R | epairs | |
|-----------------------------|--|--------------------|-----------|-----------|------------------------------|------------------------|-------------|---------|
| PBS Site Observer(s): Cla | PBS Site Observer(s): Claire Tsai, Peter Stensland | | | | | 488 92 | Date: 4/ | 20/2022 |
| | | | | <u></u> | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Perso | nnel: | | | <u></u> | Summary Phase Status: | | | |
| Project Manager | Yes N e | • Supervisor | Yes | No | Level 1: Detail cleaning/ | continue exterior colu | mn gypsum i | emoval. |
| Workers | Yes No | Name: Corey | / Foust | | Level 2: No work. Level | 3: No work | | |
| How Many? + 12 | | | | | Stairwell: Continue prep | Playground: No work | | |
| Air Monitoring Personne | l on site: PBS/Dicks | on | | | Other Personnel on Site | : MacDonald Miller (N | 1M) | |
| WORK DESCRIPTION: L | evel 1: Dickson cor | tinue detail clear | ning. PBS | S continu | ues preliminary visual inspe | ction. Exterior column | gyp removal | |
| | | | | | | | | |
| Stairwell: continue prep f | or abatement | | | | | | | |
| Stairwell: continue prep f | | Tyvek, safety boo | ots, hard | l hat | | | | |
| | | Tyvek, safety boo | ots, hard | l hat | | | | |

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building.

0730 Cascade: PBS photo documents contents (tables and printing presses) previously moved to Cascade 533 available to college pick up/storage.

0800 PBS visually inspects the column regulated areas on the SW and SE corners of the building. Both areas pass PBS visual inspection.

1000 Parking lot: One worker in the parking lot using a forklift to load ACM bags into a waste container.

1030-1115 Workers break for lunch and return to work.

1100 South Exterior: Two Dickson workers are cutting plywood and boarding up the column openings on the SW and SE corners of the building.

1215 Scaffolding: MM has finished installing the bird netting underneath of the skybridge.

1245 Level 1: Three workers inside of the mechanical room, one is scraping off the mastic on the concrete columns, two workers HEPA vacuuming the floor and doing general house keeping. Three workers throughout the rest of the floor doing detail cleaning. PBS is doing a visual inspection on the North side of the floor in order to create a punch list for Dickson.

| ITEMS OF CONCERN: None | |
|--|-------------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| NA | Olympic South Levels 1/2/3/Exterior |
| | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Laure Tsur.

Name: Claire Tsai

Date 4/20/2022



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/20/2022 |
|---|--|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai/Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1300 Exterior: One worker going around the site vacuuming up loose Styrofoam pieces that have fallen due to birds burrowing into the EFIS.

1315 Exterior: PBS visually clears the remaining exterior column abatement areas, two Dickson workers begin to deregulate the area and cover with plywood.

1330 Level 1: PBS begins process of visually inspects the ceiling junction boxes to ensure all inaccessible conduits are sealed with fire caulking.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 PBS leaving site. Corey still on site will shut down generators and secure site.

Signature: Claure Tsui.
Name: Claire Tsai



| Asbestos Contractor: Die | ckson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|--------------------------|-------|--------------------------|--|-----------------------|-----------------|-----------------|--|
| PBS Site Observer(s): Cla | ire Tsai, Peter Sto | ensla | and | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 4/21/ | Date: 4/21/2022 | |
| | | | | Page 1 of 2 | Time | 0600 a | ım | |
| Contractor on Site Persor | nnel: | | | Summary Phase Status: | | | | |
| Project Manager | Yes | No | Supervisor Yes No | Level 1: Detail cleaning | | | | |
| Workers | Yes No Name: Corey Foust | | | Level 2: No work. Level 3 replacement. | : Load out / containr | nent breakdown, | glass | |
| How Many? + 15 | | | | Stairwell: Continue prep Playground: No work Scaffolding: Loadou | | | dout | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | Other Personnel on Site: MacDonald Miller (MM), United Rentals | | | als | |
| | | | | - | | | | |

WORK DESCRIPTION: Level 1: Dickson continue detail cleaning. PBS continues preliminary visual inspection. Level 3: Removal of containment and Loadout of equipment. Scaffolding: Loading out equipment. Stairwell: continue prep for abatement.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building and Sunrise.

0700 Level 3: Three worker taking down the electrical room containment and loading out equipment.

0900 Level 1: PBS continues to create a punch list for Dickson throughout the first floor. Four workers are inside the mechanical room, one is scraping mastic off the columns, two are HEPA vacuuming the ceiling components. One is checking in on progress and directing workers. Two workers on the north side of the floor, one is doing detail cleaning in small access points to floor wiring channels, one worker is scraping mastic off the floor with a razor blade.

1030-1115 Workers break for lunch and return to work.

1130 Level 3: One worker installing plywood over the gap between the student lounge and the rest of the floor.

1145 Scaffolding: Three workers are removing the poly from the southern scaffolding in preparation for its removal from the site.

1200 Sunrise: PBS takes microvac samples of the conduits coming from Olympic South into the Sunrise maintenance closet, fire server room, and electrical room.

1330 N Scaffolding: Two workers are removing the poly and other equipment in preparation for the removal of the scaffolding.

1400 Outside: One united rentals worker servicing the restrooms.

| ITEMS OF CONCERN: None | |
|--|-------------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| NA | Olympic South Levels 1/2/3/Exterior |
| | |
| | |
| | 11-01-1 |

The individual signing certifies that the above information is correct and accurate.

Mensian Signature: 1 da Name: Peter Stensland Date 4/21/2022



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/21/2022 |
|---|--|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai/Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1405 Level 1: Three workers inside the mechanical room, two workers are using HEPA vacuums to clean off the tops of pipes and along the floor, one worker is removing conduit from the W wall. Two workers doing detail cleaning along the E side of the floor, one worker is removing junction boxes that connect to exterior outlets along the N wall.

1420 Stairwell: Three workers organizing equipment in the stairwell. Four negative air machines have been moved onto the first-floor landing.

1425 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Signature: Peter Stewlard



| Asbestos Contractor: Dicks | | Project Name: Olympic S | | | | |
|-----------------------------|--|--|------------|---------|--|--------------------------|
| PBS Site Observer(s): Gregg | | PBS Project No.: 40535.4 DES Project No.: 2021-19 | | | | |
| | | | | | | Page 1 of 2 |
| Contractor on Site Personne | l: | | | | | Summary Phase Status: |
| Project Manager | r Yes No Supervisor Yes No | | | | | Level 1: Detail cleaning |
| Workers | Yes | No | Name: Core | y Foust | | Level 2: Detail touchups |
| How Many? + 14 | | | | | | Stairwell: Continue prep |
| Air Monitoring Personnel on | | Other Personnel on Site: | | | | |
| | | | | | | |

| Project Name: Olympic South Abatement & Repairs | | | | | |
|---|-----------------|------|----|--|--|
| PBS Project No.: 40535.488 | Date: 4/22/2022 | | | | |
| DES Project No.: 2021-192 | | , | | | |
| Page 1 of 2 | Time | 0600 | am | | |
| Summary Phase Status: | | | | | |
| Level 1: Detail cleaning | | | | | |
| Level 2: Detail touchups Level 3: Detail touchups | | | | | |
| Stairwell: Continue prep Playground: No work Scaffolding: No work | | | | | |
| Other Personnel on Site: MacDonald Miller (MM), Metro Glass | | | | | |

WORK DESCRIPTION: Level 1: Dickson continue detail cleaning. PBS continues preliminary visual inspection. Level 2: Securing column holes / detail ltems. Level 3: encapsulating missed areas / removing abatement supplies. Scaffolding: Loading out equipment. Stairwell: continue prep for abatement.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building and Sunrise.

0700 Level 2: Two workers replacing the poly separating the 2nd floor and 1st floor columns with plywood pieces. Workers HEPA vacuum up any debris that may be remaining under the tape.

0800 Level 3: Two Metro glass workers resealing the windows along the south side of the skybridge.

0845 Level 1: Two workers by the E loadout double doors removing gypsum wall board and joint compound from between the columns on a scissor lift. One worker is wet wiping tools in the storage area and organizing them. Five workers in the mechanical room, two are wet wiping / HEPA vacuuming the water pipes, two are doing detail cleaning on the W wall studs, one worker is scraping mastic off the columns to the south of the clean electrical tunnel.

0930 Gregg Middaugh on site. Two by the loadout area, one worker is passing in equipment, one worker cutting wood pieces for the 2nd level column holes with a Sawzall.

1000 PBS does a general walkthrough of the site (playground, level 2, and level 3).

1030-1115 Workers break for lunch and return to work.

1200 Level 2: Two workers going throughout the floor covering up the gaps between the 2nd and 1st floor in the columns with plywood.

1210 Stairwell: One worker HEPA vacuuming the floor throughout the stairwell.

CHANGES IN SCOPE: None

QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE:

1 full 40 CY container (ACM bags and wraps) removed from site today

Olympic South Levels 1/2/3/Exterior

The individual signing certifies that the above information is correct and accurate.

Signature: 1 da Stenslan

Name: Peter Stensland Date 4/22/2022



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/22/2022 |
|---|--|-----------------|
| Abatement Contractor: Dickson | PBS Observer Claire Tsai/Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1300 Level 3: One worker going throughout the floor removing teal duct tape and doing spot encapsulating on areas that were previously covered.

1330 Rooftop: PBS takes three microvan samples from inside of the exhaust vents through the holes for the negative air machines.

1400 Level 1: Five workers in the mechanical room continuing to detail clean throughout the space. One worker removing junction boxes and wires along the north wall that lead to the exterior of the building. One worker detail cleaning the items marked out by PBS throughout the floor.

1425 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Signature: Peter Stewshard

The individual signing certifies that the above information is correct and accurate.

Name: Peter Stensland

Date 4/22/2022



Date 4/25/2022

| | | | | | | - | | | | |
|--|-------|----|-------------|---------|--|---|------------------------|--------------|---------|--|
| Asbestos Contractor: Die | ckson | | | | | Project Name: Olympic South Abatement & Repairs | | | | |
| PBS Site Observer(s): Ferman Fletcher, Peter Stensland | | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 4/25/20 | | | | | |
| | | | | | | Page 1 of 1 | Time | 0600 | am | |
| Contractor on Site Persor | nnel: | | | | | Summary Phase Status: | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Level 1: Detail cleaning | | | | |
| Workers | Yes | No | Name: Corey | y Foust | | Level 2: Detail touchups | Level 3: Detail touchu | ıps | | |
| How Many? + 15 | | | | | | Stairwell: Continue prep | Playground: No work | Scaffolding: | No work | |
| Air Monitoring Personnel on site: PBS/Dickson | | | | | Other Personnel on Site: MacDonald Miller (MM) | | | | | |
| | | | | | | | | | | |

WORK DESCRIPTION: Level 1: Dickson continue detail cleaning. PBS continues preliminary visual inspection. Level 2: Securing column holes / detail Items. Level 3: encapsulating missed areas / removing abatement supplies. Stairwell: continue prep for abatement. WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet manual methods and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building and Sunrise.

0830 Level 1: One worker HEPA vacuuming the window ledges by the stairwell. Five workers inside the mechanical room, one worker is scarping the mastic off the concrete floor, one worker is taking down the poly barrier that separated the mechanical room, one worker is wet wiping the top of the ceiling pipes, two workers are HEPA vacuuming the floor.

1030-1115 Workers break for lunch and return to work.

1300 Level 1: Six workers in the mechanical room, one is removing a small section of residual conduit on the ceiling, two workers are wet wiping down the inside of an electrical box. One worker is gathering supplies, one worker is scraping down the columns to the south of the electrical tunnel, one worker is wet wiping / HEPA vacuuming the tops of the water pipes.

1400 Level 2: Two workers, one worker is removing tape from the ceiling by the music rooms, the other is loading out equipment and organizing spider boxes on the floor. Two workers on the skybridge loading in supplies.

1415 Level 3: Two workers, one is spot applying encapsulant to a penetration beneath an I beam bellow the old server floor, the other is loading out equipment.

1425 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

information is correct and accurate.

| ITEMS OF CONCERN: None | |
|--|-------------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| NA | Olympic South Levels 1/2/3/Exterior |
| | |
| | |
| The individual signing certifies that the above | Signature: Peter Stewlard |

Name: Peter Stensland



Date 4/26/2022

| Asbestos Contractor: Die | ckson | | | Project Name: Olympic South Abatement & Repairs | | | | |
|-------------------------------------|---|----------------|--|---|-----------------------|-----|---------|--|
| PBS Site Observer(s): Fer Stensland | man Fletcher, Gre | gg Middaugh, F | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 4/26/20 | | | | | |
| | | | Page 1 of 2 | Time | 0600 | am | | |
| Contractor on Site Persor | nnel: | | | Summary Phase Status | : | | | |
| Project Manager | Yes N | lo Supervisor | Yes No | Level 1: Detail cleaning | | | | |
| Workers | Yes N | lo Name: Co | rey Foust | Level 2: Detail touchups | Level 3: Detail touch | ups | | |
| How Many? + 18 | | | | Stairwell: Continue prep Playground: No work Scaffolding: No work | | | lo work | |
| Air Monitoring Personnel | Ionitoring Personnel on site: PBS/Dickson | | | Other Personnel on Site: MacDonald Miller (MM) | | | | |
| | | | | | | | | |

| WORK DESCRIPTION: Level 1: Dickson continue detail cleaning. PBS continues visual inspection. Level 2: NA |
|---|
| Level 3: NA Stairwell: continue prep for abatement / setting up equipment |
| WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat |
| |
| METHOD OF REMOVAL: wet manual methods and saws |
| |

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building.

0630 Parking lot: Two workers in a conex cleaning off the negative air machines that have been loaded out of containment in preparation for demobilization.

0650 Level 2: One worker attaching a new poly sheet over the consecution door into the skybridge to help prevent dust from entering the floor during the demolition of the stairwell. Dickson has removed poly from the construction doors that separate Olympic N and Olympic S now that the spaces have passed air and microvac clearance.

0900 Outside: One worker is hanging poly outside the ECE to create a visual barrier in preparation for the abatement of the inside of the exterior columns.

0915 Level 1: Six workers doing detail cleaning on the punch list items created by PBS. Gregg Middaugh arrives on site.

1030-1115 Workers break for lunch and return to work.

information is correct and accurate.

1300 Level 1: MM has safe offed the power to the backup emergency power lines running from cascade to Olympic South and Olympic North. PBS takes micro vac samples from the junction boxes on the ceiling as well as the elbow where the wires leave the building and exit to Olympic North.

1330 Level 1: PBS continues visualling the floor and marking items for detail cleaning. Six workers are going throughout the floor cleaning areas marked for recleaning. One worker is going through and wiping down the inside of the junction

| ITEMS OF CONCERN: None | |
|--|-------------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| NA | Olympic South Levels 1/2/3/Exterior |
| | |
| | |
| The individual signing certifies that the above | Signature: Peta Stenshar |

Name: Peter Stensland





| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/26/2022 |
|---|---|-----------------|
| Abatement Contractor: Dickson | PBS Observer: Ferman Fletcher, Gregg Middaugh, Peter Stensland | Page 2 of 2 |
| WORK DESCRIPTION: See page 1 above | | |
| OBSERVATIONS: | | |

boxes that will remain in the building to provide emergency backup power, once PBS visually inspects the boxes they are closed and taped shut to prevent air exchange.

1400 Stairwell: Four workers securing the negative air machines to the new consecution door at the base of the stairs and finalizing the layout inside of the stairwell in preparation for the start of general demolition tomorrow.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Signature: Peter Stenshar

The individual signing certifies that the above information is correct and accurate.

Name: Peter Stensland

Date 4/26/2022



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|--|---------------------|------------------|--------------|---|---|-------------------------|----------|----|
| PBS Site Observer(s): Gre Stensland | egg Middaugh, Fe | rman Fletcher, F | Peter | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Date: 4/27/ | | /27/2022 | |
| | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Person | nnel: | | | | Summary Phase Status | : | | |
| Project Manager | Yes N | lo Supervisor | Yes N | 0 | Level 1: Detail cleaning | Level 2: NA Level 3: NA | 1 | |
| Workers | Yes N | lo Name: Coi | rey Foust | | Stairwell: Bulk Non-ACI | M removal | | |
| How Many? + 21 | | | | | Playground: NA Scaffol | ding: Removal | | |
| Air Monitoring Personne | l on site: PBS/Dick | son | | | Other Personnel on Site | e: MacDonald Miller (M | M), PCI | |
| | | | | | - | | | |

WORK DESCRIPTION: Level 1: Detail cleaning, PBS continues visual inspection. Level 2: NA Level 3: NA Scaffolding: Removal of scaffolding by PCI Stairwell: Bulk removal of wallboard and insulation. WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat **METHOD OF REMOVAL**: wet manual methods and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building.

0700 Level 1: PBS continues visually inspecting the floor and creating a punch list. Two workers are wiping down equipment so that it can be loaded out of containment. Two workers are going throughout the floor recleaning areas marked by PBS.

0830 Stairwell: Seven workers between the second and third floor removing gypsum wall board and fiberglass insulation with sawzalls and prybars. MM and PBS look at the secondary cap on the third-floor landing and agree to remove it. Debris is being loaded out in bags through the skybridge scaffolding, one forklift operator puts the tip bin up to the top of the railing and then drives the debris over to the general waste container in the parking lot.

0930 Scaffolding: Four PCI workers are dismantling the scaffolding underneath of the skybridge between Olympic South and Olympic North.

1000 Roof: PBS visually inspects the exhaust vent openings in the music room ceiling, the opening above the mechanical room passes visual inspection. The opening above the hallway entrance to 283 will need additional cleaning before it is ready to be encapsulated (the cap made for this opening is too small to fit properly).

1030-1115 Workers break for lunch and return to work.

| ITEMS OF CONCERN: None | | |
|--|--|----------------|
| | | |
| CHANGES IN SCOPE: None | | |
| | | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION | |
| NA | Olympic South Levels 1/2/3/Exterior/Stairw | ell |
| | | |
| | | |
| The individual signing certifies that the above | Signature: Peter Stewland | 1 |
| information is correct and accurate. | Name: Peter Stensland | Date 4/27/2022 |



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 4/27/2022 |
|---|---|-----------------|
| Abatement Contractor: Dickson | PBS Observer: Ferman Fletcher, Gregg Middaugh, Peter Stensland | Page 2 of 2 |
| WORK DESCRIPTION: See page 1 above | | |
| OBSERVATIONS: | | |

1130 Level 1: PBS visually inspects the floor and point out areas that need additional cleaning. Four workers are going throughout the space doing detail cleaning, one worker is using a Sawzall to cut off excess metal clips and other pieces that could be potential trip or safety hazards.

1300 Parking lot: Three workers loading negative air machines into a freight truck to be loaded off site.

1330 Level 1: PBS continues to visually inspect the floor and point out areas that need additional cleaning. Four workers are going throughout the space wet wiping / HEPA vacuuming the space, one worker is using a Sawzall to cut off excess metal clips and other pieces that could be potential trip or safety hazards.

1400 Stairwell: Six workers between the second and third floor removing gypsum wall board / joint compound and fiberglass insulation. The contents are bagged and loaded out through the skybridge (non-ACM demo).

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Signature: Peta Stenslan



Date 4/28/2022

| Asbestos Contractor: Dickson | | Project Name: Olympic South Abatement & Repairs | | | | | | | |
|------------------------------|------------------|---|------------|---------|----|--|-----------------------|------------|----------|
| PBS Site Observer(s): Fer | man Fletcher, Po | eter S | Stensland | | | PBS Project No.: 40535. DES Project No.: 2021-1 | | Date: 4, | /28/2022 |
| | | | | | | Page 1 of 1 | Time | 0600 | am |
| Contractor on Site Perso | nnel: | | | | | Summary Phase Status | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Level 1: Detail cleaning, | spraying anti-fungal | coating | |
| Workers | Yes | No | Name: Core | y Foust | | Level 2: NA Level 3: NA | Stairwell: Bulk Non-A | CM removal | |
| How Many? + 20 | | | | | | Playground: NA Scaffol | ding: Removal | | |
| Air Monitoring Personne | on site: PBS/Di | cksor | 1 | | | Other Personnel on Site | : MacDonald Miller (N | им), PCI | |

WORK DESCRIPTION: Level 1: Dickson continue detail cleaning and applies the anti-fungal coating to the walls. PBS continues visual inspection.

Level 2: NA Level 3: NA Scaffolding: Removal of scaffolding by PCI Stairwell: Bulk removal of wallboard and insulation.

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet manual methods and saws

OBSERVATIONS:

1030-1115 Workers break for lunch and return to work.

1120 PBS is on site. All following notes will be in reference to the Olympic South Building.

1145 Level 1: Two workers spraying the anti-fungal coating along the north wall with an airless sprayer. Three workers are going throughout the floor addressing final punch list items. PBS continues to visual the floor and point out areas that need additional cleaning.

1200 Parking lot: Four PCI workers loading equipment onto trucks. All the scaffolding from underneath of the skybridge between Olympic S and Olympic N has been removed.

1300 Level 1: The floor passes visual clearance. Two workers continue to spray the anti-fungal coating on the north side of the building. Four workers are going throughout the space and are cleaning equipment for loadout and doing a final once over of the space in preparation for encapsulating the space tomorrow morning.

1400 Stairwell: Six workers in the stairwell removing gypsum wall board / joint compound and fiberglass insulation from the exterior walls. Debris is bagged and loaded out through the skybridge scaffolding into the forklift tip bin. One worker is outside operating the forklift and driving the general debris to the waste container in the parking lot for disposal.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

information is correct and accurate.

| ITEMS OF CONCERN: None | |
|--|---|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| NA | Olympic South Levels 1/2/3/Exterior/Stairwell |
| | |
| | |
| The individual signing certifies that the above | Signature: Peter Stewlard |

Name: Peter Stensland



| Asbestos Contractor: Dickson | | Project Name: Olympic South Abatement & Repairs | | | | |
|------------------------------|--|---|----------------|----------------|--|--|
| PBS Site Observer(s): Ferr | man Fletcher, Peter Stensland | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 4/29/202 | | |
| | | Page 1 of 1 | Time | 0600 am | | |
| Contractor on Site Person | nel: | Summary Phase Status: | | | | |
| Project Manager | Yes No Supervisor Yes No | Level 1: Encapsulating throug | hout the floor | | | |
| Workers | Yes No Name: Corey Foust | Level 2: NA Level 3: NA Stairwell: Bulk Non-ACM removal | | | | |
| How Many? + 18 | | Parking lot: Equipment loadout | | | | |
| Air Monitoring Personnel | on site: PBS/Dickson | Other Personnel on Site: MacDonald Miller (MM) | | | | |

Parking lot: Equipment loadout Level 2: NA Level 3: NA

WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet manual methods and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building.

0630 Level 1: Four workers beginning to encapsulate the floor along the north side of the building. The stairs, railing, phone panel, and active junction boxes are wrapped in poly to protect them from encapsulant.

0730 Parking lot: Two workers cleaning off equipment to taken off site.

0800 Stairwell: Six workers doing non-ACM gypsum / joint compound demolition. Workers are cutting the walls into sections and prying them out with a metal bar. The debris is then bagged and loaded out through the first-floor doorway into the forklift tip bin. One worker is operating the tip bin.

1030-1115 Workers break for lunch and return to work.

1245 Level 1: Two workers continuing to encapsulate the floor. Approximately 50% of the floor has been encapsulated (from south line of the mechanical room north).

1330 Stairwell: Seven workers removing the remaining portions of the wall board and insulation on the first floor. One worker is HEPA vacuuming the floors throughout the stairwell in preparation for abatement to begin Monday morning.

1400: Two workers are outside of the containment bringing in supplies and doing general house keeping throughout site.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

| ITEMS OF CONCERN: None | |
|--|---|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| NA | Olympic South Levels 1/2/3/Exterior/Stairwell |
| | |
| | |
| | 11-01-1 |

The individual signing certifies that the above information is correct and accurate.

Signature: 1 da Drenslan Name: Peter Stensland Date 4/29/2022



Date 5/2/2022

| Asbestos Contractor: Dicl | kson | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|---|--|-----------|--|---|------------------------|----------------|----|--|
| PBS Site Observer(s): Peter Stensland | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 5, | Date: 5/2/2022 | | |
| | | | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Personi | nel: | | | | | | | | |
| Project Manager | Yes No | Supervisor | Yes | No | Summary Phase Status: | Level 1: Encapsulant i | in progress. | | |
| Workers | Yes No | Name: Corey | y Foust | | Level 2: Cover ceiling jui | nction boxes. | | | |
| How Many? +12 | | | | | Level 3: No Work. Stairv | vell: Abatement/demo |) | | |
| | | | | | | | | | |
| Air Monitoring Personnel | on site: PBS/Dicksor | า | | | Other Personnel on Site | : MacDonald Miller (N | MM) | | |
| WORK DESCRIPTION: Level Stairwell: Continue democ | vel 1: Workers enca of stairwell gypsum | psulate area wi wallboard and | insulatio | n. | | | , | S. | |
| WORK DESCRIPTION: Lev | vel 1: Workers enca of stairwell gypsum | psulate area wi wallboard and | insulatio | n. | | | , | S. | |
| WORK DESCRIPTION: Lev | vel 1: Workers enca of stairwell gypsum ½ face respirator, Ty | psulate area wi wallboard and yvek, safety boo | insulatio | n. | | | , | S. | |
| WORK DESCRIPTION: Lev Stairwell: Continue demo o WORKER PROTECTION: 1 | vel 1: Workers enca of stairwell gypsum ½ face respirator, Ty | psulate area wi wallboard and yvek, safety boo | insulatio | n. | | | , | S. | |

OCOO Distance

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting daily PCM air monitoring.

- **0730** Level 1: Two workers spraying encapsulant on the southern portion of the floor.
- **0830** Level 2: One MM worker is attaching cover plates to the ceiling junction boxes.

0900 Skybridge between Cascade and Olympic S: Two workers loading out ACM bags and doing general housekeeping of the space. One worker is operating the forklift to loadout the debris from the scaffolding and dumps the tip bin into the ACM waste container in the parking lot.

0930 Stairwell: Six workers removing gypsum wall board / joint compound and fiberglass insulation from the west side of the stairwell (2nd and 3rd floor). Workers have now opened up the contaminated cavity between the stairwell and the building, the doors have been demarked with asbestos banner tape and signage.

1000 Outside: One united rentals worker servicing the restrooms.

1030-1115 Workers break for lunch and return to work.

information is correct and accurate.

1230 Stairwell: Four workers removing gypsum wall board / joint compound and fiberglass insulation from the west side of the stairwell (1st floor). Two workers are on the 2nd level landing doing general housekeeping.

| ITEMS OF CONCERN: None | |
|--|------------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| NA | Olympic South Levels 1/2/Stairwell |
| | |
| | |
| The individual signing certifies that the above | Signature: Pola Stewland |

Name: Peter Stensland



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 5/2/2022 |
|---|------------------------------|----------------|
| Abatement Contractor: Dickson | PBS Observer Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1330 Skybridge: Two workers in the skybridge loading out ACM bags and doing general housekeeping. One worker operating the forklift taking the ACM bags to the waste container in the parking lot.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Signature: Peter Stewlard

The individual signing certifies that the above information is correct and accurate.

Name: Peter Stensland

Date 5/2/2022



| Asbestos Contractor: Dickson | | | | | Project Name: Olympic South Abatement & Repairs | | | | |
|---|----------------------|-------------------|--|-------|---|-------------------|-------------------------|----------------|----|
| PBS Site Observer(s): Peter Stensland | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 Dat | | | Date: 5/ | ate: 5/3/2022 | | |
| | | | | | Page 1 | of 1 | Time | 0600 | am |
| Contractor on Site Perso | nnel: | | | | | | | | |
| Project Manager | Yes No | Supervisor | Yes | No | Summary | y Phase Status: | Level 1: Preparing for | clearance | |
| Workers | Yes No | Name: Corey | Foust | | Level 2: 0 | Cover ceiling jui | nction boxes. | | |
| How Many? +13 | | | | | Level 3: N | No Work. Stairw | ell: Abatement/demo |) | |
| Air Monitoring Personne | I on site: PBS/Dicks | on . | | | Other Pe | rsonnel on Site | : MacDonald Miller (N | /M) | |
| WORK DESCRIPTION: L | | | | | | M attaching cov | er plates to ceiling ju | ınction boxes. | |
| Stairwell: Workers are be | | | te bare | l hat | | | | | |
| | 1/2 face respirator | Tuvak satatu hoo | | | | | | | |
| Stairwell: Workers are be WORKER PROTECTION | ½ face respirator, | Tyvek, safety boo | its, marc | | | | | | |
| | | | rts, riarc | | | | | | |

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting daily PCM air monitoring.

0800 Level 2: PBS inspects the poly barrier isolating the stairwell from the main floor to ensure that none of the poly has been damaged or fallen. One MM worker is attaching cover plates and signage to the ceiling junction boxes.

0900 Level 1: Four workers inside the first floor removing poly from the windows and fixtures.

1030-1115 Workers break for lunch and return to work.

1200 Stairwell: five workers throughout the stairwell doing detail cleaning (HEPA vacuuming and wet wiping) the metal wall studs. One worker is outside of the containment doing general housekeeping, loading out ACM bags, and gathering equipment for the workers inside of the containment. One worker is using the forklift to bring ACM bags to the parking lot waste containers.

1300 Outside / level 1: PBS is setting and calibrating pumps in preparation for the AHERA clearance of Level 1 tomorrow morning. One worker gathers extension cords and splitters to help with the pump setup.

1330 Level 1: Workers have finished preparing the floor for clearance.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

| BUILDING/AREA/LOCATION |
|------------------------------------|
| Olympic South Levels 1/2/Stairwell |
| |
| |
| 11-04-1 |
| |

The individual signing certifies that the above information is correct and accurate.

Signature: Ida Stublan
Name: Peter Stensland

Date 5/3/2022



| Asbestos Contractor: Die | ckson | | Project Name: Olympic South Abatement & Repairs | | | | | |
|--|------------------|---------------------|---|---|------------------------|-------------|----------------|--|
| PBS Site Observer(s): Gregg Middaugh Peter Stensland | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 5, | Date: 5/4/2022 | |
| | | | | Page 1 of 1 | Time | 0600 | am | |
| Contractor on Site Persor | nnel: | | | | | | | |
| Project Manager | Yes | No Superviso | r Yes No | Summary Phase Status: | Level 1: Preparing fo | r clearance | | |
| Workers | Yes | No Name: Co | rey Foust | Level 2: Cover ceiling ju | nction boxes. | | | |
| How Many? +10 | | | | Level 3: Selective demo | Stairwell: Abatement | :/demo | | |
| Air Monitoring Personnel | on site: PBS/Dic | kson | | Other Personnel on Site | e: MacDonald Miller (I | MM) | | |

WORK DESCRIPTION: Level 1: Workers are preparing the floor for clearance. Level 2: MM attaching cover plates to ceiling junction boxes.

Stairwell: Workers are beginning cleaning and removing remaining conduit sections.

WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat

METHOD OF REMOVAL: wet methods manual and saws

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting daily PCM air monitoring.

0700 Stairwell: Five workers cutting out excess conduit and HEPA vacuuming / wet wiping the metal wall studs throughout the 2nd and 3rd levels. One worker outside of the containment doing general house keeping and organizing supplies.

0730 Level 1: PBS calibrates the pumps in preparation for the clearance of the floor.

0830 Level 1: PBS starts the AHERA clearance after aggressively blowing the entire floor with a leaf blower.

0930 Level 2: One MM worker attaching tags and cover plates to the ceiling junction boxes. Gregg Middaugh arrives on site.

1000 PBS walks the site to see what final items will need to be finished before the completion of the project.

1030 Level 1: PBS collects the clearance air samples.

1030-1115 Workers break for lunch and return to work.

1100 Parking lot: PBS meets Olga Webstad and Charlene Wilson to return the non AOR items from room 185. All items were returned.

1200 Stairwell: Five workers cutting out conduit, HEPA vacuuming and wet wiping the metal studs, and doing general housekeeping throughout the 2nd and 3rd levels.

| ITEMS OF CONCERN: None | |
|--|------------------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| NA | Olympic South Levels 1/2/Stairwell |
| | |
| | |
| | 1 11 |

The individual signing certifies that the above information is correct and accurate.

Signature: Par Sturbar

Name: Peter Stensland

Date 5/4/2022



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 5/4/2022 |
|---|---|----------------|
| Abatement Contractor: Dickson | PBS Observer: Gregg Middaugh, Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1300 Level 3: Five workers removing remaining gypsum ceiling / excess metal from above the construction door and rehanging the visual barrier poly.

1330 Level 1: PBS collects representative microvac clearance samples.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Signature: Peter Stenshar

The individual signing certifies that the above information is correct and accurate.

Name: Peter Stensland

Date 5/4/2022



| Asbestos Contractor: Dickson | | | | Project Name: Olympic South Abatement & Repairs | | | | | | |
|---|---------------------|----------------|---|---|-----------|------------------|------------------|-----------------------|------|----|
| PBS Site Observer(s): Peter Stensland | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | Date: 5, | Date: 5/5/2022 | | | |
| | | | | | | Page 1 | of 1 | Time | 0600 | am |
| Contractor on Site Perso | nnel: | | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary | / Phase Status: | Level 1: NA | | |
| Workers | Yes | No | Name: Corey | y Foust | | Level 2: 0 | Cover ceiling ju | nction boxes. | | |
| How Many? +11 | | | | | | Level 3: N | NA Stairwell: Ab | atement/demo | | |
| Air Monitoring Personne | el on site: PBS/Dic | cksor | 1 | | | Other Pe | rsonnel on Site | : MacDonald Miller (N | 1M) | |
| | | 2. 1.4 | M attaching co | over plat | tes to ce | iling junction | n boxes. | | | |
| WORK DESCRIPTION: L Stairwell: Workers are cle | | | | | | illing juriction | | | | |
| | eaning and remov | ving | remaining con | duit sec | tions. | aning junction | | | | |
| Stairwell: Workers are cle | eaning and remov | ving | remaining con | duit sec | tions. | ming junction | | | | |
| Stairwell: Workers are cle | eaning and remov | ving or, Ty | remaining con | duit sec | tions. | ming junction | | | | |

OBSERVATIONS:

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting daily PCM air monitoring.

0700 Outside. One worker is using the forklift to move ACM waste bags the waste containers in the parking lot.

0800 Stairwell: Six workers inside of the stairwell wet wiping / HEPA vacuuming metal wall studs and the marble crete wall. One worker is outside the containment doing general housekeeping and passing in equipment to the workers inside.

0900 Outside: Two workers are demoing out the underside of the NE exterior soffit in order to gain access for cleaning. One worker is cutting the plaster / gypsum with a Sawzall the other worker is picking up debris and HEPA vacuuming.

1030-1115 Workers break for lunch and return to work.

1300 Stairwell: Six workers doing detail cleaning in the stairwell, work is concentrated around the 2nd and 3rd levels. One worker outside the containment passing in supplies and loading out ACM bags, one worker operating the forklift to bring the ACM bags to the parking lot waste container.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

1500 Outside: PBS takes microvac samples from inside the soffit along the N stairwell exterior and in the soffit gap underneath of the skybridge between Olympic S and Cascade.

| ITEMS OF CONCERN: None | |
|--|-------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| NA | Olympic South Stairwell |
| | |
| | |
| The individual signing sortifies that the above | Signatura: Act Stenshow |

The individual signing certifies that the above information is correct and accurate.

Signature: / Uk W/W/

Date 5/5/2022 Name: Peter Stensland



Date 5/6/2022

| Asbestos Contractor: Dickson | | | Project Name: Olympic S | outh Abatement & F | Repairs | | |
|--|----------|-----------------------------|--------------------------------|--|---------|----------------|--|
| PBS Site Observer(s): Peter Stensland | | | , | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 5/6/2022 | |
| | | | Page 1 of 2 | Time | 0600 | am | |
| Contractor on Site Personnel: | | | _ | | | | |
| Project Manager Yes | No | Supervisor Yes No | Summary Phase Status: L | evel 1: NA | | | |
| Workers Yes | No | Name: Corey Foust | Level 2: Cover ceiling jun | ction boxes. | | | |
| How Many? +10 | | | Level 3: NA Stairwell: Aba | atement/demo | | | |
| Air Monitoring Personnel on site: PBS/I | Dicksor | 1 | Other Personnel on Site: | MacDonald Miller (N | /M) | | |
| WORK DESCRIPTION: Level 1: Worker Stairwell: Workers continue detail clean | ing. | | 2: MM attaching cover plates t | o ceiling junction bo | xes. | | |
| WORKER PROTECTION: ½ face respire | ator, Ty | vek, safety boots, hard hat | | | | | |
| | manu | al and saws | | | | | |
| METHOD OF REMOVAL: wet methods | mana | | | | | | |

0600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson workers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting daily PCM air monitoring.

0700 One worker using a forklift to dispose of the broken glass leftover from the recladding project. Two workers demoing out the insulation around the pipes in the NE soffit.

0900 Stairwell: Five workers doing detail cleaning on the 2nd floor, two workers are double bagging ACM waste for loadout. Three workers are wet wiping / HEPAV vacuuming the metal wall studs and marble crete wall. Two workers are outside of the containment. One loading ACM bags into the tip bin, one is operating the forklift.

1030-1115 Workers break for lunch and return to work.

information is correct and accurate.

1200 Level 1: Two workers are recleaning the raised floor in the ECE with HEPA vacuums. After they have finished vacuuming the floor it will be encapsulated.

1230 Level 3: PBS is taking bulk TEM samples of the marble crete. One worker is HEPA vacuuming up the excess material that is broken off as a result of the sampling.

1330 Stairwell: Four workers in the stair well HEPA vacuuming the metal wall studs and scraping off residual caulking from along the pan decking seams. One worker outside of the containment doing general housekeeping and passing in equipment.

| ITEMS OF CONCERN: None | |
|---|--------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| 1 full 40 CY container (ACM bags and wraps) removed from site today | Olympic South Stairwell |
| | |
| | |
| The individual signing certifies that the above | Signature: Peta Stenslan |

Name: Peter Stensland



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 5/6/2022 |
|---|---|----------------|
| Abatement Contractor: Dickson | PBS Observer: Gregg Middaugh, Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Signature: Pata Stensland



| Asbestos Contractor: Dickson | Project Name: Olympic Sou | ıth Abatement & R | lepairs | |
|--|---|------------------------------|---------------|-----------|
| PBS Site Observer(s): Peter Stensland | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 5/9 | 9/2022 |
| | Page 1 of 1 | Time | 0600 | am |
| Contractor on Site Personnel: | | | | |
| Project Manager Yes No Supervisor Yes No | Summary Phase Status: Lev | el 1: Recleaning / r | resampling | |
| Workers Yes No Name: Corey Foust | Level 2: NA. | | | |
| How Many? +10 | Level 3: NA Stairwell: Abate | ment/demo | | |
| Air Monitoring Personnel on site: PBS/Dickson | Other Personnel on Site: M | acDonald Miller (M | 1M) | |
| WORK DESCRIPTION: Level 1: Workers recleaning / encapsulating. Level 2: | NA. Stairwell: Workers continu | e detail cleaning. | | |
| WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat | | | | |
| | | | | |
| METHOD OF REMOVAL: wet methods manual and saws | | | | |
| | | | | |
| OBSERVATIONS: | | | | |
| 1600 Dickson and MM workers are having their morning meeti | ng to go over the scope | of work for the | e day. Dicks | on |
| workers go to assigned tasks. All following notes will be in refer | rence to the Olympic Sou | uth Building. Pf | 3S conducti | ing daily |
| PCM air monitoring. | | | | - |
| 7700 C | | | | |
|)700 Outside: Two workers are seeding the dirt around the pla | | ie seeds with p | eat moss b | etore |
| vatering the area in order to promote growth and reduce soil ϵ | erosion. | | | |
| 9900 Level 1: PBS recollects a microvac clearance sample from | the southwest portion of | f the floor. One | worker is | |
| squeegeeing away the excess water from the floor to the drain | · | | | ted by |
| he sitting water leaking out of the pipe. Two workers loading o | • | | - | |
| the sitting water leaking out of the pipe. Two workers loading e | out negative all machine. | 3 WICH CHE TOTAL | iit tip biii. | |
| 1030-1115 Workers break for lunch and return to work. | | | | |
| 1200 Level 1: Two workers are recleaning the raised floor in the vacuuming the floor it will be encapsulated. | e ECE with HEPA vacuum | s. After they ha | ive finished | |
| 1300 Stairwell: Five workers inside the stairwell doing detail cle | aning throughout the 1st | t and 2 nd levels | Workers h | ave |
| nserted two more negative air machines into the stairwell on the | 5 5 | | | |
| | • | | s are extrau | isting |
| rom the clean level 3 area into the containment and will help a | _ | | | |
| 1415 Workers decon out of work areas for the day and meet at | job trailer for end of da | y meeting. | | |
| 1430 Workers off site for the day. | | | | |
| | | | | |

ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION NA The individual signing certifies that the above Signature:

Name: Peter Stensland

information is correct and accurate.

Date 5/9/2022



| Asbestos Contractor: Di | ckson | | | | Project Name: Olympic Sout | h Abatement & F | Repairs | |
|--------------------------------|------------------|----------|-----------------|--------------------|---|-------------------|---------------|-----------|
| PBS Site Observer(s): Pete | er Stensland | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 5/ | /10/2022 |
| | | | | | Page 1 of 1 | Time | 0600 | am |
| Contractor on Site Person | nnel: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: Leve | I 1: NA | | |
| Workers | Yes | No | Name: Core | y Foust | Level 2: Taking down contain | nment. Outside: [| Demoing soffi | t |
| How Many? +10 | | | | | Level 3: NA Stairwell: Abaten | nent/demo | | |
| Air Monitoring Personne | on site: PBS/D | Dicksor | n | | Other Personnel on Site: Ma | cDonald Miller (N | MM) | |
| WORK DESCRIPTION: Le | evel 1: Workers | s reclea | aning / encaps | sulating. Level 2: | Removing containment poly. | | | |
| Outside: Demoing soffit S | Stairwell: Work | ers co | ntinue detail c | leaning. | | | | |
| WORKER PROTECTION: | 1/2 face respira | tor, Ty | yvek, safety bo | ots, hard hat | | | | |
| | | | | | | | | |
| METHOD OF REMOVAL | : wet methods | manu | al and saws | | | | | |
| | | | | | | | | |
| OBSERVATIONS: | | | | | | | | |
| D600 Dickson and MN | 1 workers ar | re ha | ving their m | orning meet | ing to go over the scope o | of work for the | e day. Dick | son |
| workers go to assigne | d tasks. All 1 | follov | ving notes v | will be in refe | rence to the Olympic Sou | th Building. Pl | BS conduct | ing daily |
| PCM air monitoring. | | | | | | | | |
| 7730 Level 2: Two wor | rkers taking | dow | n the noly t | hat senarate | s the top of the stairwell fr | rom second fl | oor The no | alv is |
| pagged and sealed, th | _ | | | • | · | om second in | oon me pe | 51y 13 |
| 0830 Rooftop: Two w | orkers on th | e roc | of taking of | tape and doi | ng general cleanup aroun | d the roof. | | |
| 0930 Outside: Two wo | orkers taking | g dov | vn the level | 1 clean roon | n and loading the waste ba | ags into the fo | orklift tip b | in. |
| 1030-1115 Workers b | reak for lun | ich ar | nd return to | work. | | | | |
| 1300 Stairwell: Five wo | | | | nent doing d | etail cleaning. PBS genera | lly inspects th | ie area and | begins to |
| 1330 Outside: Two wo | | _ | | | rior of the stairwell. One we debris. | vorker is cuttii | ng out the | bottom |
| 1415 Workers decon | out of work | areas | s for the da | y and meet a | t job trailer for end of day | meeting. | | |
| 1430 Workers off site | for the day. | | | | | | | |
| | | | | | | | | |
| ITEMS OF CONCERN: No | ne | | | | | | | |

The individual signing certifies that the above

CHANGES IN SCOPE: None

BUILDING/AREA/LOCATION

BUILDING/AREA/LOCATION

Signature:

Signature:

The individual signing certifies that the above information is correct and accurate.

Signature: 1 da ...
Name: Peter Stensland

Date 5/10/2022



| | | | - | | | | | | |
|-------------------------------|---------------------|----------|----------------|-----------|----------|--|-----------------|------------------|------------|
| Asbestos Contractor: Die | ckson | | | | | Project Name: Olympic Sout | h Abatement & | Repairs | |
| PBS Site Observer(s): Gree | gg Middaugh, | Peter S | Stensland | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 5, | /11/2022 |
| | | | | | | Page 1 of 2 | Time | 0600 | am |
| Contractor on Site Persor | nnel: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: Leve | | | |
| Workers | Yes | No | Name: Rand | ly Scott | | Level 2: NA. Outside: Demoi | | | |
| How Many? +17 | | | | | | Level 3: NA Stairwell: Abaten | | | |
| Air Monitoring Personnel | | | | emoina | & clear | Other Personnel on Site: Macing up soffit area Stairwell: Work | | | |
| | | | | | | ing up somt area stanwen. Work | ers continue de | tali cleariirig. | |
| WORKER PROTECTION: | ½ face respira | itor, 1y | vek, safety bo | ots, narc | a nat | | | | |
| METHOD OF REMOVAL | wet methods | manua | al and saws | | | | | | |
| | | | | | | | | | |
| OBSERVATIONS: | | | | | | | | | |
| | 1 workers a | re hav | ing their m | orninc | g mee | ting to go over the scope o | of work for th | ne day. Dick | son |
| | | | • | _ | • | erence to the Olympic Sou | | • | |
| CM air monitoring. | a tasks. All | ionow | ing notes v | VIII DC | III ICIO | crence to the Olympic 300 | ar bananig. i | DJ CONGUC | ung dan |
| Civi all monitoring. | | | | | | | | | |
| 1800 Level 2: Three wo | orkers outsi | de of | the skybric | lge de | con a | ea loading in equipment a | and carrying | out ACM ba | ags to loa |
| nto the tip bin. | | | | | | | | | |
| 1000 Outsider one we | wl.o.w.i.o. o.u.++i | | t the seffit | fram. | | and of the clarkwides and | has sanarat | ad tha casti | an intact |
| | | _ | | | | neath of the skybridge and | • | ed the section | on intact |
| one worker is below F | iepa vacuu | ning | up ranen de | edris a | na ne | lping to lower down the so | IIIL. | | |
| 915 Two workers in t | he parking | lot we | et wiping / | HEPA ' | vacuu | ming equipment before it | is loaded off | site in a bo | x truck. |
| 930 Gregg Middaugl | n arrives on | site. | | | | | | | |
| 000 Outside: PBS wa | lks the site | to wo | rk on devel | loping | a pun | ch list for the completion o | of the projec | t. | |
| 030-1115 Workers b | reak for lur | ich an | d return to | work. | | | | | |
| 1200 Outside: Two wo | | emoir | ng the entir | e rema | aining | portions of the soffits from | n underneatl | n of the skyl | bdridge |
| 300 Stainwell: Fight w | rorks doing | detai | il cleaning t | hroug | hout t | he first and second floors. | PRS walke +h | rough the f | loor and |
| • | _ | | • | _ | | | | • | |
| reates some punch iis | st items for | tne ci | rew to work | con (ie | evei 2 | and 3). Two workers are ou | utside the co | ntainment (| aoing |
| | | | | | | | | | |
| ITEMS OF CONCERN: No | ne | | | | | | | | |
| TIEIVIS OF CONCERNAL INC. | iie . | | | | | | | | |
| CHANGES IN SCOPE: Nor | ne | | | | | | | | |
| | | | | | | | | | |
| QUANTITY AND TYPE AC | M REMOVED | THIS SH | HIFT/ PHASE: | | | BUILDING/AREA/LOCATION | | | |
| NA | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

The individual signing certifies that the above information is correct and accurate.

Signature: 1 da

Name: Peter Stensland

Date 5/11/2022

PBS Environmental Field Observation Report Additional Page



| Project Name: Olympic South Abatement & Repairs | Project No. 40535.488 | Date: 5/11/2022 |
|---|---|-----------------|
| Abatement Contractor: Dickson | PBS Observer: Gregg Middaugh, Peter Stensland | Page 2 of 2 |
| | | |
| WORK DESCRIPTION: See page 1 above | | |
| | | |
| OBSERVATIONS: | | |

general house keeping and loading out ACM bags to the forklift tip bin. One worker is operating the forklift to bring the waste the parking lot.

1330 Outside: Two workers cleaning up the soffit area; HEPA vacuuming the drop and wet wiping the tops of the pipes.

1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.

1430 Workers off site for the day.

Signature: Peter Stenstant

The individual signing certifies that the above information is correct and accurate.

Name: Peter Stensland

Date 5/11/2022



| Asbestos Contractor: Dicks | son | | | | Project Name: Olympic S | | Repairs | |
|--|-------------------------|--------|---------------|---------------|---|-----------------------|-----------|----------|
| PBS Site Observer(s): Peter S | Stensland | | | | PBS Project No.: 40535.4 DES Project No.: 2021-1 | | Date: 5, | /12/2022 |
| | | | | | Page 1 of 1 | Time | 0600 | am |
| Contractor on Site Personne | el: | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | | | |
| Workers | Yes | No | Name: Rand | ly Scott | Level 2: NA. Outside: Cle | | | |
| How Many? +12 | | | | | Level 3: NA Stairwell: Cle | - | | |
| Air Monitoring Personnel or | n site: PBS/D | icksor | 1 | | Other Personnel on Site | MacDonald Miller (N | ИМ) | |
| WORK DESCRIPTION: Level | | | | | t area Stairwell: Workers cont | inue detail cleaning. | | |
| | • | | | | | | | |
| METHOD OF REMOVAL: W | et metnoas | manu | ai and saws | | | | | |
| D600 Dickson and MM vorkers go to assigned PCM air monitoring. | | | _ | _ | | | • | |
| 0730 Outside: Three wo | rkers load | ling c | out ACM bag | gs form the | soffit demo into the for | klift tip bin. | | |
| 0800 Level 1: One worke ire caulking. There are s heir uses first. | | | | | | | | |
| 9900 Stairwell: Six work | ers inside | the s | tairwell doir | ng detail cle | aning on the first floor. | | | |
| 1 030-1115 Workers bre | eak for lun | ch ar | nd return to | work. | | | | |
| 1330 Stairwell: Five work o wipe down the scaffo dust / debris underneatl managing the equipmer | lding and h and will | rem | ove all poly | / tape prior | to encapsulation. There | is a substantial | amount of | conceale |
| 1415 Workers decon ou | ıt of work | areas | s for the day | and meet | at job trailer for end of | day meeting. | | |
| 1430 Workers off site fo | or the day. | | | | | | | |
| ITEMS OF CONCERN: None | | | | | | | | |
| CHANGES IN SCOPE: None | | | | | | | | |
| | | | | | | | | |

The individual signing certifies that the above information is correct and accurate.

Signature: Pota Stenslan

Name: Peter Stensland Date 5/12/2022



| PBS Environmental | Field Observ | ation Report | | | |
|-----------------------------------|-----------------------|---------------------------------------|-------------------------|---------------------------------|---------------------------------------|
| Asbestos Contractor: Dic | kson | | | e: Olympic South Abatem | ent & Repairs |
| PBS Site Observer(s): Ferm | nan Fletcher, Peter | Stensland | - | No.: 40535.488 No.: 2021-192 | Date: 5/13/2022 |
| | | | Page 1 of | 1 Time | e 0600 am |
| Contractor on Site Person | nel: | | <u> </u> | | |
| Project Manager | Yes No | Supervisor Yes N | o Summary Ph | ase Status: Level 1: NA | |
| Workers | Yes No | Name: Randy Scott | _ | Outside: Cleaning soffit | |
| How Many? +5 | | | Level 3: NA S | Stairwell: Cleaning | |
| Air Monitoring Personnel | on site: PBS/Dicks | on | Other Persor | nnel on Site: MacDonald N | Ailler (MM) |
| WORK DESCRIPTION: Le | evel 1: NA . Level 2: | NA. Outside: Cleaning up s | offit area Stairwell: W | orkers continue detail cle | aning. |
| WORKER PROTECTION: | ½ face respirator, | Tyvek, safety boots, hard ha | t | | |
| METHOD OF REMOVAL: | wet methods man | ual and saws | | | |
| | | | | _ | |
| OBSERVATIONS: | | | | .1 | <u> </u> |
| | | aving their morning m | 5 5 | • | • |
| orkers go to assigned | d tasks. All follo | wing notes will be in | reference to the (| Olympic South Buildi | ing. PBS conducting dail |
| CM air monitoring. | | | | | |
| 630 – 0800 One work | ker assisting PB | S with bulk TEM sam | olina. | | |
| | J | · | J | | |
| | | _ | | _ | Workers HEPA vacuum a |
| et wipe the surface o | f the scaffoldin | g to ensure that no e | cess demo debri | s remains. | |
| 030-1115 Workers b | reak for lunch a | and return to work. | | | |
| 200 Level 2: PBS colle | ects TEM bulk s | amples. | | | |
| 230 Outside: Two wo | rkers finish det | ail cleaning the soffit | area and are reac | ly for a visual inspect | tion. |
| 300 PBS collecting bu | ılk TEM sample | es. | | | |
| 415 Workers decon c | out of work area | as for the day and me | et at job trailer fo | r end of day meeting | g. |
| 430 Workers off site | for the day. | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| ITEMS OF CONCERN: Nor | ne | | | _ | |
| | | | | | |
| CHANGES IN SCOPE: Non | ne | | | | |
| QUANTITY AND TYPE ACI | M REMOVED THIS | SHIFT/ PHASE: | BUILDING/AREA, | /LOCATION | |
| NA | | | | | |
| | | | | | |
| | | · · · · · · · · · · · · · · · · · · · | | | · · · · · · · · · · · · · · · · · · · |

The individual signing certifies that the above information is correct and accurate.

Signature:

Name: Peter Stensland

Date 5/13/2022



| Contractor on Site Personnel: Project Manager Yes No Supervisor Yes No Summary Phase Status: Level 1: NA Workers Yes No Name: Randy Scott How Many? +5 Air Monitoring Personnel on site: PBS/Dicksor WORK DESCRIPTION: Level 1: NA . Level 2: NA . Outside: Cleaning up soffit area Stainwell: Workers continue detail cleaning. WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat METHOD OF REMOVAL: wet methods manual and saws OBSERVATIONS: 600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson or kers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting day CM air monitoring. 730 Outside: PBS visually inspects the soffit area and creates a punch list for the worker to touchup before taking down the containment. 800 Outside: The soffit area passes visual inspection, and one worker begins taking down the poly and picking up the softic area and provided to the containment. | PBS Environmental | Field Observation Report | | | | | | | |
|--|--------------------------------|--|-------------|------------------------------------|------------------|--------------------|--|--|--|
| DES Project No. 2021-192 Date: 3 Asbestos Contractor: Dick | Site Observer(s): Peter Stensland tractor on Site Personnel: ect Manager Yes No Supervisor Yes No Name: Randy So Many? +5 Monitoring Personnel on site: PBS/Dickson RK DESCRIPTION: Level 1: NA . Level 2: NA. Outside: Cleani RKER PROTECTION: ½ face respirator, Tyvek, safety boots, THOD OF REMOVAL: wet methods manual and saws ERVATIONS: Dickson and MM workers are having their more ers go to assigned tasks. All following notes will air monitoring. Outside: PBS visually inspects the soffit area and ontainment. | | | | | | | |
| Contractor on Site Personnel: Project Manager Yes No Name: Randy Scott How Many? +5 Air Monitoring Personnel on site. PBS/Dickson WORK DESCRIPTION: Level 1: NA . Level 2: NA . Outside: Cleaning up soffit area Stairwell: Workers continue detail cleaning. WORK DESCRIPTION: Level 1: NA . Level 2: NA . Outside: Cleaning up soffit area Stairwell: Workers continue detail cleaning. WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat METHOD OF REMOVAL: wet methods manual and saws OBSERVATIONS: 600 Dickson and IMM workers are having their morning meeting to go over the scope of work for the day. Dickson or lovers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting day are containment. 800 Outside: PBS visually inspects the soffit area and creates a punch list for the worker to touchup before taking down to containment. 800 Outside: The soffit area passes visual inspection, and one worker begins taking down the poly and picking up the rop cloth. 930 Stairwell: Three workers HEPA vacuuming and wet wiping the scaffolding on the third floor. 930 Stairwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | PBS Site Observer(s): Peter | Stensland | | - | | Date: 5/16/2022 | | | |
| Project Manager Yes No Name: Randy Scott Workers Yes No Name: Randy Scott Level 2: NA. Outside: Cleaning soffit Level 2: NA. Coutside: Cleaning soffit Level 2: NA. Coutside: Cleaning soffit Level 3: NA. Stainveil: Eval at leaning Other Personnel on Site: MacDonald Miller (MM) WORK DESCRIPTION: Level 1: NA. Level 2: NA. Outside: Cleaning up soffit area Stainwell: Workers continue detail cleaning. WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat METHOD OF REMOVAL: wet methods manual and saws OBSERVATIONS GBOD Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson norkers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting da CM air monitoring. 730 Outside: PBS visually inspects the soffit area and creates a punch list for the worker to touchup before taking dove containment. 800 Outside: The soffit area passes visual inspection, and one worker begins taking down the poly and picking up the rope cloth. 930 Stainwell: Three workers HEPA vacuuming and wet wiping the scaffolding on the third floor. 030-1115 Workers break for lunch and return to work. 230 Stainwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | | | | Page 1 of 1 | Time | 0600 am | | | |
| WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat METHOD OF REMOVAL: wet methods manual and saws OBSERVATIONS. 600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson orkers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting do econtainment. 800 Outside: PBS visually inspects the soffit area and creates a punch list for the worker to touchup before taking down to econtainment. 800 Outside: PBS visually inspects the soffit area and creates a punch list for the worker to touchup before taking down to plot list. 930 Outside: The soffit area passes visual inspection, and one worker begins taking down the poly and picking up the rop cloth. 930 Stainwell: Three workers HEPA vacuuming and wet wiping the scaffolding on the third floor. 931 Stainwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. EVENT OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | Contractor on Site Personr | nel: | | | | | | | |
| Air Monitoring Personnel on site: PBS/Dickson WORK DESCRIPTION: Level 1: NA . Level 2: NA . Outside: Cleaning up soffit area Stainwell: Workers continue detail cleaning. WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat METHOD OF REMOVAL: wet methods manual and saws OBSERVATIONS. 6000 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson norders go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting da CM air monitoring. 730 Outside: PBS visually inspects the soffit area and creates a punch list for the worker to touchup before taking down the containment. 800 Outside: The soffit area passes visual inspection, and one worker begins taking down the poly and picking up the rop cloth. 930 Stainwell: Three workers HEPA vacuuming and wet wiping the scaffolding on the third floor. 030-1115 Workers break for lunch and return to work. 230 Stainwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | Project Manager | Yes No Supervisor Y e | es No | Summary Phase Status: Leve | 1: NA | | | | |
| Air Monitoring Personnel on Site: PBS/Dickson Other Personnel on Site: MacDonald Miller (MM) WORK DESCRIPTION: Level 1: NA . Level 2: NA. Outside: Cleaning up soffit area Stairwell: Workers continue detail cleaning. WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat METHOD OF REMOVAL: wet methods manual and saws OBSERVATIONS 600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson rorkers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting day to maintain the containment. 730 Outside: PBS visually inspects the soffit area and creates a punch list for the worker to touchup before taking down the containment. 800 Outside: The soffit area passes visual inspection, and one worker begins taking down the poly and picking up the rop cloth. 930 Stainwell: Three workers HEPA vacuuming and wet wiping the scaffolding on the third floor. 030-1115 Workers break for lunch and return to work. 230 Stainwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | Workers | Yes No Name: Randy Sco | ott | Level 2: NA. Outside: Cleanin | g soffit | | | | |
| WORK DESCRIPTION: Level 1: NA . Level 2: NA. Outside: Cleaning up soffit area Stainwell: Workers continue detail cleaning. WORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat METHOD OF REMOVAL: wet methods manual and saws OBSERVATIONS: 600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson or kers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting day air monitoring. 730 Outside: PBS visually inspects the soffit area and creates a punch list for the worker to touchup before taking down are containment. 800 Outside: The soffit area passes visual inspection, and one worker begins taking down the poly and picking up the rop cloth. 930 Stainwell: Three workers HEPA vacuuming and wet wiping the scaffolding on the third floor. 030-1115 Workers break for lunch and return to work. 230 Stainwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | How Many? +5 | | | Level 3: NA Stairwell: Detail of | leaning | | | | |
| MORKER PROTECTION: ½ face respirator, Tyvek, safety boots, hard hat METHOD OF REMOVAL: wet methods manual and saws OBSERVATIONS: 600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson or orkers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting day concerns of the source of the soffit area and creates a punch list for the worker to touchup before taking down to containment. 800 Outside: PBS visually inspects the soffit area and creates a punch list for the worker to touchup before taking down to containment. 800 Outside: The soffit area passes visual inspection, and one worker begins taking down the poly and picking up the rop cloth. 930 Stainwell: Three workers HEPA vacuuming and wet wiping the scaffolding on the third floor. 030-1115 Workers break for lunch and return to work. 230 Stainwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | Air Monitoring Personnel o | on site: PBS/Dickson | | Other Personnel on Site: Mad | Donald Miller (N | MM) | | | |
| OBSERVATIONS: 600 Dickson and MM workers are having their morning meeting to go over the scope of work for the day. Dickson orkers go to assigned tasks. All following notes will be in reference to the Olympic South Building. PBS conducting da CM air monitoring. 730 Outside: PBS visually inspects the soffit area and creates a punch list for the worker to touchup before taking down to containment. 800 Outside: The soffit area passes visual inspection, and one worker begins taking down the poly and picking up the rop cloth. 930 Stainwell: Three workers HEPA vacuuming and wet wiping the scaffolding on the third floor. 030-1115 Workers break for lunch and return to work. 230 Stainwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | WORK DESCRIPTION: Lev | rel 1: NA . Level 2: NA. Outside: Cleanir | ıg up soffi | t area Stairwell: Workers continue | detail cleaning. | | | | |
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| 730 Outside: PBS visually inspects the soffit area and creates a punch list for the worker to touchup before taking down to containment. 800 Outside: The soffit area passes visual inspection, and one worker begins taking down the poly and picking up the rop cloth. 930 Stainwell: Three workers HEPA vacuuming and wet wiping the scaffolding on the third floor. 030-1115 Workers break for lunch and return to work. 230 Stainwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None BUILDING/AREA/LOCATION | vorkers go to assigned | tasks. All following notes will k | oe in ref | erence to the Olympic Sout | h Building. P | BS conducting dail | | | |
| 730 Outside: PBS visually inspects the soffit area and creates a punch list for the worker to touchup before taking down to containment. 800 Outside: The soffit area passes visual inspection, and one worker begins taking down the poly and picking up the rop cloth. 930 Stainwell: Three workers HEPA vacuuming and wet wiping the scaffolding on the third floor. 030-1115 Workers break for lunch and return to work. 230 Stainwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None BUILDING/AREA/LOCATION | PCM air monitoring. | | | | | | | | |
| ne containment. 800 Outside: The soffit area passes visual inspection, and one worker begins taking down the poly and picking up the rop cloth. 930 Stairwell: Three workers HEPA vacuuming and wet wiping the scaffolding on the third floor. 030-1115 Workers break for lunch and return to work. 230 Stairwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None BUILDING/AREA/LOCATION | J | | | | | | | | |
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| rop cloth. 930 Stairwell: Three workers HEPA vacuuming and wet wiping the scaffolding on the third floor. 030-1115 Workers break for lunch and return to work. 230 Stairwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | he containment. | | | | | | | | |
| rop cloth. 930 Stairwell: Three workers HEPA vacuuming and wet wiping the scaffolding on the third floor. 030-1115 Workers break for lunch and return to work. 230 Stairwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | 800 Outside: The soffi | t area passes visual inspection | and on | o worker begins taking dov | un the nelv a | nd nicking up the | | | |
| O30-1115 Workers break for lunch and return to work. 230 Stairwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | rop cloth. | t area passes visual inspection, | and on | e worker begins taking dov | vii tile poly a | nd picking up the | | | |
| 230 Stairwell: Three workers wet wiping and HEPA vacuuming the scaffolding on levels 2 and 3. 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | 1930 Stairwell: Three w | orkers HEPA vacuuming and w | et wipin | g the scaffolding on the th | ird floor. | | | | |
| 415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting. 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | 030-1115 Workers br | eak for lunch and return to wo | rk. | | | | | | |
| 430 Workers off site for the day. ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | 230 Stairwell: Three w | orkers wet wiping and HEPA va | acuumin | g the scaffolding on levels | 2 and 3. | | | | |
| ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | 415 Workers decon o | ut of work areas for the day an | d meet | at job trailer for end of day | meeting. | | | | |
| CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | 430 Workers off site f | or the day. | | | | | | | |
| CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | | | | | | | | | |
| CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | | | | | | | | | |
| CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | | | | | | | | | |
| CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | | | | | | | | | |
| CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | | | | | | | | | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | ITEMS OF CONCERN: None | e | | | | | | | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: BUILDING/AREA/LOCATION | CHANGES IN SCOPE: None | | | | | | | | |
| | CHANGES IN SCOPE, NOR | - | | | | | | | |
| NA Olympic South stairwell and exterior | QUANTITY AND TYPE ACM | 1 REMOVED THIS SHIFT/ PHASE: | | BUILDING/AREA/LOCATION | | | | | |
| | NA | | | Olympic South stairwell and exte | rior | | | | |
| | | | | | | | | | |

The individual signing certifies that the above information is correct and accurate.

Signature: 1 da .

Name: Peter Stensland

Date 5/16/2022



| r D3 Elivii Olillielitai | i ieiu Obs | ei va | ition kept | <i>,</i> , , | | | |
|---|---|-----------------------------------|-----------------------|--|---|--|----------------------|
| Asbestos Contractor: Die | ckson | | | | Project Name: Olympic Sout | th Abatement & | Repairs |
| PBS Site Observer(s): Cla | ire Tsai, Peter : | Stensla | and | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 5/17/2022 |
| | | | | | Page 1 of 1 | Time | 0600 am |
| Contractor on Site Persor | nnel: | | | | <u>-</u> | | |
| Project Manager | Yes | No | Supervisor | Yes No | Summary Phase Status: | | |
| Workers | Yes | No | Name: Core | y Foust | Stairwell: PBS visual inspecti | on | |
| How Many? +8 | | | | | | | |
| Air Monitoring Personnel | on site: PBS/E | Dickso | n | | Other Personnel on Site: Ma | cDonald Miller (I | MM) |
| WORK DESCRIPTION: SE | | | | | ontinue detail cleaning associated | with PBS visual i | inspection. |
| WORKER I ROTECTION. | 72 face respire | itoi, i | yvek, salety bo | ots, nara nat | | | |
| METHOD OF REMOVAL | Wet wine and | l HFP/ | \ vacuum | | | | |
| WETTIOD OF REMOVAE | wet wipe and | 1 1 1 L 1 7 | · vacuum | | | | |
| OBSERVATIONS: | | | | | | | |
| workers go to assigned PCM air monitoring. C 0950 PBS enter Stairw Cleaning. Dickson work | d tasks. All ine worker (ell containn kers in area | follov (forkl nent to ac | ving notes with Corey | will be in re) assisting v to perform s as noted. | eting to go over the scope of ference to the Olympic Sou with operations outside of co visual inspection. PBS note ed for additional cleaning h | oth Building. P containment. areas in need | PBS conducting daily |
| 1030-1115 Workers b | reak for lun | ich ai | nd return to | work. | | | |
| 1130 Workers begin e sheeting. | ncapsulatio | n of | stairwell co | ntainment. | Finishes in need of protecti | on have been | n covered with poly |
| | | - | - | | ommunicate current punch l nis last day on site, new sup | | |
| 1415 Workers decon | out of work | area | s for the day | y and meet | at job trailer for end of day | / meeting. | |
| 1430 Workers off site | for the day. | | | | | | |
| | | | | | | | |
| ITEMS OF CONCERN: No | ne | | | | | | |
| | | | | | | | |
| CHANGES IN SCOPE: No | ne | | | | | | |
| | | | | | | | |
| QUANTITY AND TYPE AC | M REMOVED | THIS S | HIFT/ PHASE: | | BUILDING/AREA/LOCATION | | |
| NΔ | | | | | Olympic South Stainvell | | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsui.
Name: Claire Tsai

Date 5/17/2022



| Asbestos Contractor: Di | | | | | | | |
|---|---|---|---|--|------------------------|------------|---------|
| Abbestes contractor. Di | ickson | | | Project Name: Olympic | South Abatement & Re | pairs | |
| PBS Site Observer(s): Cla | aire Tsai, Peter Ste | nsland, Gregg M | iddaugh | PBS Project No.: 40535. DES Project No.: 2021-1 | | Date: 5/ | 18/2022 |
| | | | | Page 1 of 1 | Time | 0600 | am |
| Contractor on Site Person | nnel: | | | | | | |
| Project Manager | Yes I | lo Supervisor | Yes No | Summary Phase Status: | | | |
| Workers | Yes | lo Name: Ran | dy Scott | Stairwell: Continue Enca | · | | |
| How Many? +7 | | | | Level 1/2/3: Misc. punch | list items | | |
| Air Monitoring Personne | I on site: PBS/Dic | cson | | Other Personnel on Site | : MacDonald Miller (MN | M) | |
| METHOD OF REMOVAL | • | | | | | | |
| | | | | | | | |
| OBSERVATIONS: | | | | | | | |
| OBSERVATIONS: 600 Dickson and MN | Л workers are | having their n | norning meet | ing to go over the sco | pe of work for the | day. Dicks | on |
| 600 Dickson and MN | | • | • | ing to go over the sco | • | day. Dicks | on |
| 600 Dickson and MN | ed tasks. All fo | lowing notes | • | 5 5 | • | day. Dicks | on |
| 600 Dickson and MN orkers go to assigne | d tasks. All fol nager Gregg N | lowing notes I on site. | will be in refe | rence to the Olympic | • | day. Dicks | son |
| 600 Dickson and MN orkers go to assigne 845 PBS project mar 930 PBS meet Charle | ed tasks. All fol nager Gregg N ene W in Parki | lowing notes I on site. ng lot A to re | will be in refe | rence to the Olympic | South Building. | · | |
| 600 Dickson and MA orkers go to assigne 845 PBS project mar 930 PBS meet Charle 950 PBS communica | ed tasks. All fol nager Gregg M ene W in Parki te with Randy | lowing notes I on site. ng lot A to readditional mi | will be in refe turn occupant inor gypsum v | rence to the Olympic | South Building. | ation exte | |
| 600 Dickson and MA orkers go to assigne 845 PBS project mar 930 PBS meet Charle 950 PBS communica | ed tasks. All fol mager Gregg M ene W in Parki te with Randy observed wor | lowing notes I on site. Inglot A to readditional micking on temp | will be in refe turn occupant inor gypsum v | rence to the Olympic s contents. | South Building. | ation exte | |

- coverage. Dickson workers in area touching up as needed.
- 1320 Two workers on level 2 spraying additional encapsulant in areas noted for touch ups. (Column cavity penetrations previously covered by critical barriers to separate floors 1 and 2)
- 1330 Gypsum wallboard removal needed on south elevation exterior is complete. Area has been covered with plywood for building security.
- 1415 Workers decon out of work areas for the day and meet at job trailer for end of day meeting.
- **1430** Workers off site for the day.

| ITEMS OF CONCERN: None | |
|--|---|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| NA | Olympic South Levels 1/2/Stairwell/Exterior |
| | |
| | |
| | |

The individual signing certifies that the above information is correct and accurate.

Signature: Clause T sai Name: Claire Tsai Date 5/18/2022



| PBS Environmental Field Observation Report | | |
|--|---|----------------------------------|
| Asbestos Contractor: Dickson | Project Name: Olympic South A | batement & Repairs |
| PBS Site Observer(s): Claire Tsai, Peter Stensland | PBS Project No.: 40535.488 DES Project No.: 2021-192 | Date: 5/19/2022 |
| | Page 1 of 1 | Time 0600 am |
| Contractor on Site Personnel: | _ | |
| Project Manager Yes No Supervisor Yes No | | |
| Workers Yes No Name: Randy Scott | PBS stairwell clearance sampling | |
| How Many? +5 Air Monitoring Personnel on site: PBS/Dickson | Misc. punch list items throughor Other Personnel on Site: MacDo | |
| WORK DESCRIPTION: PBS conduct clearance sampling in stairwell area. | - | , , |
| WORKER PROTECTION: 1/2 face respirator, Tyvek, safety boots, hard hat | | |
| | | |
| METHOD OF REMOVAL: NA | | |
| | | |
| OBSERVATIONS: | acting to go over the scane of | work for the day Diskson |
|)600 Dickson and MM workers are having their morning mo workers go to assigned tasks. All following notes will be in re | | • |
| 1915 PBS set up air clearance samples for stairwell area. | | |
| 1930 One worker loading supplies and equipment into box remove Sani cans. | truck in ECE drive through area | . United site services on site t |
| 0940 Three workers in 283 reenforcing critical barriers on co | olumn penetrations to exterior o | columns. |
| 1000 Pacific Mobile structures removing break trailer from p | parking lot A. | |
| 1030-1115 Workers break for lunch and return to work. | | |
| l 155 Todd L on site for walk through. | | |
| 1200 PBS walk site with Randy and two workers to look at p | unch list items. | |
| 1326 Two workers cleaning exterior light boxes. One worker | · • | ng equipment for |
| demobilization. Pacific mobile mini on site to remove one of ot A one worker assisting. | ffice trailer. Sunbelt on site pick | ing up generator from parkin |
| | ffice trailer. Sunbelt on site pick | ing up generator from parkin |
| ot A one worker assisting. | ffice trailer. Sunbelt on site pick | ing up generator from parkin |
| ot A one worker assisting. 1400 Weekly construction meeting with project team | ffice trailer. Sunbelt on site pick | ing up generator from parkin |
| ot A one worker assisting. 1400 Weekly construction meeting with project team 1430 Workers leaving site for the day. | ffice trailer. Sunbelt on site pick | ing up generator from parkir |
| ot A one worker assisting. 1400 Weekly construction meeting with project team 1430 Workers leaving site for the day. 1450 PBS leaving site. MM still onsite will secure building. | ffice trailer. Sunbelt on site pick | ing up generator from parkir |
| ot A one worker assisting. 1400 Weekly construction meeting with project team 1430 Workers leaving site for the day. 1450 PBS leaving site. MM still onsite will secure building. ITEMS OF CONCERN: None | BUILDING/AREA/LOCATION | ing up generator from parkin |

The individual signing certifies that the above information is correct and accurate.

Signature: Music Todai

Name: Claire Tsai

Date 5/19/2022



Date 5/20/2022

| Asbestos Contractor: Dickson | | | | Project Name: Olympic | South Abatement & Re | . Repairs | | | |
|------------------------------|----------------------|-----------------------|------------|---|------------------------|---------------|----|--|--|
| PBS Site Observer(s): Claire | e Tsai, Peter Stensk | and | | PBS Project No.: 40535.4 DES Project No.: 2021-1 | | Date: 5/20/20 | | | |
| | | | | Page 1 of 1 | Time | 0600 | am | | |
| Contractor on Site Personn | nel: | | | | | | | | |
| Project Manager | Yes No | Supervisor Yes | No | Summary Phase Status: | Punch list walk throug | h. | | | |
| Workers | Yes No | Name: Randy Scott | t | Stairwell passes clearand | ce. | | | | |
| How Many? +5 | | | | Misc. Punch list items ar | ound site. | | | | |
| Air Monitoring Personnel o | on site: PBS/Dickso | า | | Other Personnel on Site | : MacDonald Miller (M | M) | | | |
| WORK DESCRIPTION: Wa | | <u> </u> | ind PBS fo | r punch list items. | | | | | |
| Dickson continue punch lis | st items around site | | | | | | | | |
| Dickson continue punch lis | | | boots, hig | h-vis vest | | | | | |
| • | | | boots, hig | h-vis vest | | | | | |
| • | 「yvek, ½ face respir | | boots, hig | h-vis vest | | | | | |

information is correct and accurate.

0845 One worker assist PBS with returning contents to International House. PBS photo document return of items for smart sheet.

0850 One worker in connex in parking lot A cleaning equipment for demobilization from site.

0900 Two workers cleaning exterior light/junction boxes. PBS visually inspect exterior light/junction box on south elevation west area. Cleaning satisfactory, workers may encapsulate.

0950 One worker cleaning up broken glass and construction debris from landscaping area around building.

1030-1115 Workers break for lunch and return to work.

1130-1300 Andy H and Charlene W on-site for punch list walk through with MM and PBS.

Three workers continue cleaning exterior junction boxes. PBS following along visually inspecting each junction box as it is completed. One worker still cleaning equipment in connex. One worker assisting efforts and continuing with demobilization.

1400 MM off site. PBS leaving site. Randy still on site will secure building.

| ITEMS OF CONCERN: None | |
|--|----------------------------|
| | |
| CHANGES IN SCOPE: None | |
| | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION |
| NA | Olympic South Levels 1/2/3 |
| | |
| | |
| | Ω_{a} |
| The individual signing certifies that the above | Signature: (MM TM) |

Name: Claire Tsai



| A - + C + D' - | | | | | | | | | | | |
|---|--|-------------------|------------|----------|---|------------------|--------------|------------|--|--|--|
| Asbestos Contractor: Dickso | on | | | | Project Name: Olympic South Abatement & Repairs | | | | | | |
| PBS Site Observer(s): Claire | Tsai | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 5, | /23/2022 | | | |
| | | | | | Page 1 of 1 | Time | 0600 | am | | | |
| Contractor on Site Personnel | l: | | | | | | | | | | |
| Project Manager | | No Supervisor | | No | Summary Phase Status: | | | | | | |
| Workers | Yes | No Name: Ra | ndy Scott | | Misc. punch list items around | site | | | | | |
| How Many? + 3 | | | | | | - III. | | | | | |
| Air Monitoring Personnel on | Site: PBS/Dic | ckson | | | Other Personnel on Site: Mac | Donaid Miller (N | /IIVI) | | | | |
| WORK DESCRIPTION: Dicks | | | | ms aro | und site. | | | | | | |
| Set up containment for addit | tional duct w | ork found in east | stairwell. | | | | | | | | |
| WORKER PROTECTION: Ger | neral constru | iction safety | | | | | | | | | |
| | | | | | | | | | | | |
| METHOD OF REMOVAL: NA | 4 | | | | | | | | | | |
| OBSERVATIONS: | | | | | | | | | | | |
| 0820 PBS on site. Dicksor | n and MM | are on site. [| Dan, two o | carpei | nters, and one electrician o | n site compl | eting punc | h list | | | |
| tems. Randy and three w | orkers are | on site comp | oleting pu | ınch l | ist items. One worker loadi | ng materials | into forklif | ft bin and | | | |
| transporting them to par | | • | • | | | 3 | | | | | |
| 1030-1115 Workers brea | J | | | | | | | | | | |
| 1030-1113 Workers blee | ak ioi iulic | ii and retuin | lo work. | | | | | | | | |
| 1130 PBS walk level 3 wit | th Randy a | and two work | ers. Addit | ional | section of ductwork found | coming fron | n level 2 to | level 3 | | | |
| via stairwell. Duct work e | ncased in | gypsum previ | ously cor | nceale | d from stairwell. Workers h | nave sealed e | end of duct | and will | | | |
| work on setting up mini o | containme | nt around are | ea for duc | t wor | k to be removed in. | | | | | | |
| 1140 One worker on leve | el 3 fire ca | ulking condui | t from pre | eviou | s roof penetration that has | been cappe | d. | | | | |
| 1230 PBS meet Pierce Co | ollege emp | loyee at Park | ing Lot A | to vie | ew artwork that will be pick | ked up at a la | iter schedu | ıled date. | | | |
| 1240 One worker cetting | | | ct romay | al in c | | | | | | | |
| 1240 One worker setting | up contai | nment for au | ct remova | ai iii S | tairweil. | | | | | | |
| J | • | | ct remov | ai iii S | tairweii. | | | | | | |
| 1415 Workers meet for e | end of day | | ct remova | ai iii S | tairweii. | | | | | | |
| 1415 Workers meet for e | end of day the day. | meeting. | | ai III S | tairweii. | | | | | | |
| 1415 Workers meet for e | end of day the day. | meeting. | | ai iii S | tairweii. | | | | | | |
| 1415 Workers meet for e | end of day the day. | meeting. | | ai III S | tairweii. | | | | | | |
| 1415 Workers meet for e | end of day the day. | meeting. | | ai III S | tairweii. | | | | | | |
| 1240 One worker setting 1415 Workers meet for e 1430 Workers off site for 1445 PBS leaving site. MI | end of day the day. | meeting. | | ai iii S | tairweii. | | | | | | |
| 1415 Workers meet for e 1430 Workers off site for 1445 PBS leaving site. MI | end of day the day. | meeting. | | ai iii S | tairweii. | | | | | | |
| 1415 Workers meet for e 1430 Workers off site for 1445 PBS leaving site. MI | end of day the day. M still on s | meeting. | e site. | | BUILDING/AREA/LOCATION | | | | | | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claude Touri.
Name: Claire Tsai

Date 5/23/2022



| Asbestos Contractor: Dicks | on | | | | | Project Name: Olympic South Abatement & Repairs | | | | | |
|---------------------------------|----------------|---------|----------------|----------|-----------|--|-------------------|------------------------|----------------|-----------------|--|
| PBS Site Observer(s): Claire | Tsai | | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | | Date: 5/ | Date: 5/24/2022 | |
| | | | | | | Page | 1 of 1 | Time | 0600 | am | |
| Contractor on Site Personne | el: | | | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summa | ary Phase Status: | | | | |
| Workers | Yes | No | Name: Rand | ly Scott | | Misc. P | unchlist items | | | | |
| How Many? +3 | | | | | | | | | | | |
| Air Monitoring Personnel or | n site: PBS/Di | icksor | າ | | | Other I | Personnel on Site | : MacDonald Miller (MI | <u></u> √I) | | |
| WORK DESCRIPTION: Dick | son and MM | 1 on s | ite completing | punch | list item | 5. | | | | | |
| WORKER PROTECTION: 1/2 | face respirat | tor, Ty | vek, safety bo | ots, har | d hat | | | | | | |
| METHOD OF REMOVAL: W | et methods r | manu | al and saws | | | | | | | | |
| OBSERVATIONS: | | | | | | | | | | | |
|)600 PBS on site. Dickso | on and MN | /l on | site comple | tina r | unch l | ist items | | | | | |

0600 PBS on site. Dickson and MM on site completing punch list items.

0621 Two workers bring negative air machine from connex in parking lot up to stairwell containment between second and third floor. Workers continue sealing stairwell containment for additional duct removal.

0645 One worker taking box truck back to shop to continue demobilization.

0807 PBS set up HEPA air sample from stairwell containment. One worker in stairwell containment removing gypsum and section of duct work. One worker cleaning equipment in connex for demobilization. One worker still off-site bringing materials back to shop. Randy on site supervising activities.

0845 One worker back on site with box truck to load up more materials for demobilization.

1030-1115 Workers break for lunch and return to work.

1145-1200 PBS visually inspect stairwell containment. One worker in area touches up cleaning as needed. PBS visual inspection satisfactory. One worker begins encapsulation of stairwell containment.

1300 Randy and workers in parking lot loading materials from connex into box truck for demobilization. PBS provide Randy with written punch list items remaining and communicate we will not be on site tomorrow (5/25).

1315 PBS set up clearance air sample in stairwell mini containment. Workers continue with demobilization.

1430 Workers off site for the day.

1520 PBS collect Clearance air sample from stairwell containment and leave site. Doors locked.

| ITEMS OF CONCERN: None | | |
|--|--------------------------------------|---------------------------------------|
| | | |
| CHANGES IN SCOPE: None | | |
| | | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION | |
| Asbestos contaminated duct work from stairwell | Olympic South Levels 1/2/3/Stairwell | |
| | | |
| · | | · · · · · · · · · · · · · · · · · · · |
| | | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tosai Date 5/24/2022 Name: Claire Tsai



| Asbestos Contractor: Dick | son | | | | Project Name: Olympic South Abatement & Repairs | | | | | | |
|--|----------------|--------------|--------------------------|-----------|---|----------------------|-------------|------------|--|--|--|
| PBS Site Observer(s): Clair | e Tsai, Gregg | Midd | augh | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 5/ | 26/2022 | | | |
| | | | | | Page 1 of 1 | Time | 0800 | am | | | |
| Contractor on Site Personr | | | | | | | | | | | |
| Project Manager | Yes | No | | No | Summary Phase Status: Mi | sc. Punch list items | | | | | |
| Workers | Yes | No | Name: Randy Scott | | Other Personnel on City N | AssDonald Millor (M | N A) | | | | |
| How Many? +1 Air Monitoring Personnel of | un aitar DDC/D | \ialaa | | | Other Personnel on Site: M United Site Services | racDonaid Miller (M | IVI) | | | | |
| WORK DESCRIPTION: Dic | kson and MN | /I are | on site completing puncl | h list it | eems. | | | | | | |
| WORKER PROTECTION: N | IA | | | | | | | | | | |
| METHOD OF REMOVAL: | NA | | | | | | | | | | |
| OBSERVATIONS: | | | | | | | | | | | |
| D815 PBS on site. Dicks | on and MI | M are | e on site completing | g pun | ch list items. | | | | | | |
|)845 PBS project mana | ger Gregg | Мо | n site for walk throu | ugh. | | | | | | | |
| 1000 Bandy and one w | orkor on si | +0 d | mahilizina aquinm | ont f | rom around the site. Stai | invall containme | nt has na | scad air | | | |
| clearance. Containment | | | 3 | ient ii | rom around the site. Sta | irweii Containine | ent nas pas | sseu air | | | |
| 1030-1115 Workers br | eak for lun | ch aı | nd return to work. | | | | | | | | |
| 1200 United Site Servic | es on site | picki | ng up sandbags. Sit | te fen | cing has been removed. | | | | | | |
| 1230 Todd L on site for o be picked up. | walk thro | ugh. | PBS and Dickson w | alk ex | kterior looking at places | with construction | on debris t | hat need | | | |
| • | | | | | above the east elevation | | | stairwell. | | | |
| 1430 Workers off site fo | or the day. | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| ITEMS OF CONCERN: None | 9 | | | | | | | | | | |
| CHANGES IN SCOPE: None | 1 | | | | | | | | | | |
| QUANTITY AND TYPE ACM | I REMOVED 1 | <u>HIS</u> S | HIFT/ PHASE: | | BUILDING/AREA/LOCATION | | | | | | |
| NA | | | | | Olympic South Levels 1/2/3 | | | | | | |
| | | | | - | | | | | | | |

The individual signing certifies that the above information is correct and accurate.

Signature: Cluve T Sau

Name: Claire Tsai

Date 5/26/2022



| | | | | _ | | | | | |
|----------------------------------|---------------------|---------|-----------------|-----------|------------|---|------------------|----------|--------|
| Asbestos Contractor: Dickson | | | | | | Project Name: Olympic South | Abatement & Re | epairs | |
| PBS Site Observer(s): Claire Tsa | ai | | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 5/ | 27/202 |
| | | | | | | Page 1 of 1 | Time | 0800 | am |
| Contractor on Site Personnel: | | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: Misc. | Punch list items | | |
| Vorkers | Yes | No | Name: Rand | y Scott | | | | | |
| How Many? | | | | | | Other Personnel on Site: Mac | Donald Miller (M | IM) | |
| Air Monitoring Personnel on si | te: PBS/Di | ickson | l . | | | | | | |
| WORK DESCRIPTION: Dicksor | and MM | l are o | n site complet | ting punc | ch list it | ems. | | | |
| WORKER PROTECTION: NA | | | | | | | | | |
| METHOD OF REMOVAL: NA | | | | | | | | | |
| OBSERVATIONS: | | | | | | | | | |
| 900 PBS on site. Dickson | and MN | /l on | site comple | ting pu | unch l | ist items. | | | |
| ckson cleaning up land s | caping [·] | from | construction | on debr | ris on | south, east and west eleva | tions. | | |
| 00 PBS meet occupant in | n Parkin | ıg lot | A for conto | ents ret | turn. | | | | |
| 15 Two maintenance em | ployee | s trar | nsport colle | ge art f | from (| connex to Cascade 513. | | | |
| ne art piece glass broken | in proc | ess. I | PBS docum | ent and | d noti | fy college, art is not damag | ed. | | |
| 230 PBS leaving site. Dick | son and | MM b | 1 still on site | e will se | ecure | building. | | | |
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| ITEMS OF CONCERN: None | | | | | | | | | |
| TIEMS OF CONCERN. None | | | | | | | | | |
| CHANGES IN SCOPE: None | | | | | | | | | |
| QUANTITY AND TYPE ACM REI | MOVED T | HIS SH | HIFT/ PHASE: | | | BUILDING/AREA/LOCATION | | | |
| NA | | | | | | Olympic South Levels 1/2/3 | | | |
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| | | | | | | Philips | | | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai

Date 5/27/2022

information is correct and accurate.



Date 5/31/2022

| | | | | _ | | | |
|---|-----------------------------------|--------------------|---------------|--|-------------------|---------------|--------|
| Asbestos Contractor: Dickson | | | | Project Name: Olympic South PBS Project No.: 40535.488 | n Abatement & F | Repairs | |
| PBS Site Observer(s): Claire Tsa | PBS Site Observer(s): Claire Tsai | | | | | Date: 5/3 | 1/2022 |
| | | | | Page 1 of 1 | Time | 0800 | am |
| Contractor on Site Personnel: | | | | _ | | | |
| Project Manager | Yes No | Supervisor ' | Yes No | Summary Phase Status: Misc. | Punch list items | 5 | |
| Workers | Yes No | Name: Randy S | cott | <u> </u> | | | |
| How Many? +1 | | | | Other Personnel on Site: Mac | :Donald Miller (N | MM) | |
| Air Monitoring Personnel on si | te: PBS/Dickso | n | | PCI | | | |
| WORK DESCRIPTION: Dickson | n and MM are | on site completing | j punch list | t items. | | | |
| WORKER PROTECTION: NA | | | | | | | |
| METHOD OF REMOVAL: NA | | | | | | | |
| OBSERVATIONS: | | | | | | | |
| 830 PBS on site. Dickson | and MM or | site completir | ng punch | n list items. | | | |
| 845 PCI on site removing | scaffolding | access to Skyl | oridge w | indow between Olympic Sou | uth and Casc | ade. | |
| 850 One Dickson worker till up on windows. | in skybridg | e vacuuming ca | arpet. Po | ly sheeting has been remov | ed from carp | et. Visual ba | rriers |
| • | | | | | | | |
| 400 PBS review with MM or review. | Misc. areas | /items that nee | ed asbes | tos labels. Verbiage of sign l | anguage sen | t out to proj | ect te |
| 520 PBS leaving site. | | | | | | | |
| J | | | | | | | |
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| ITEMS OF CONCERN: None | | | | | | | |
| | | | | | | | |
| CHANGES IN SCOPE: None | | | | | | | |
| QUANTITY AND TYPE ACM RE | MOVED THIS S | HIFT/ PHASE: | | BUILDING/AREA/LOCATION | | | |
| NA | | | | Olympic South Levels 1/2/3 | | | |
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| | | | | | | | |
| The individual signing certifies | that the above | <u>.</u> | | Signature: | | | |

Name: Claire Tsai



| | Project Name: Olympic South Abateme | ent & Repairs |
|---|---|----------------|
| PBS Site Observer(s): Claire Tsai | PBS Project No.: 40535.488 DES Project No.: 2021-192 | Date: 6/2/2022 |
| | Page 1 of 1 Time | e 0800 am |
| Contractor on Site Personnel: | - · | |
| Project Manager Yes No Supervisor Yes No | Summary Phase Status: Misc. Punch lis | t items |
| Workers $\frac{\text{Yes}}{\text{Ves}}$ No $\frac{\text{Name: Randy Scott/}}{\text{Corey Foust}}$ | | |
| How Many? +3 | Other Personnel on Site: MacDonald M | liller (MM) |
| Air Monitoring Personnel on site: PBS/Dickson | | |
| WORK DESCRIPTION: Dickson and MM are on site completing punch lis | st items. | |
| WORKER PROTECTION: NA | | |
| METHOD OF REMOVAL: NA | | |
| OBSERVATIONS: | | |
| 140 Corey, Todd, Randy and three workers are on site. MM | and K Fox insulators are on site. PBS | S on site. |
| ne worker in connex cleaning contents to be returned. One | worker vacuuming floor throughou | t level 2. |
| • | | |
| ne worker assisting K fox insulation with sealing brace fram | ning. | |
| 300 PBS and Dickson looking at previously concealed colur ickson workers seal cavity with poly sheeting and duct tape norning. | · · · · · · · · · · · · · · · · · · · | • |
| 230 PBS meet Charlene W. on site in parking lot A to return | occupant contents. | |
| 430 Workers off site. Building has been secured. | | |
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| ITEMS OF CONCERN: None | | |
| ITEMS OF CONCERN: None | | |
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| ITEMS OF CONCERN: None CHANGES IN SCOPE: None QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | BUILDING/AREA/LOCATION | |
| CHANGES IN SCOPE: None | BUILDING/AREA/LOCATION Olympic South Levels 1/2/3 | |
| QUANTITY AND TYPE ACM REMOVED THIS SHIFT/ PHASE: | | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claure Tsai

Date 6/2/2022



| PBS Environmentai | rieiu Observa | tion keport | | | | | | | | |
|----------------------------|-----------------------|------------------------------|-------------|--|-----------------------|--------------|----------|--|--|--|
| Asbestos Contractor: Did | ckson | | | Project Name: Olympic South Abatement & Repairs | | | | | | |
| PBS Site Observer(s): Clai | ire Tsai, Gregg Midda | nugh | | PBS Project No.: 40535.48 DES Project No.: 2021-192 | | Date: 6, | /3/2022 | | | |
| | | | | Page 1 of 1 | Time | 0800 | am | | | |
| Contractor on Site Persor | nnel: | | | | | | | | | |
| Project Manager | Yes No | | Yes No | Summary Phase Status: M | isc. Punch list items | 5 | | | | |
| Workers | Yes No | Name: Randy S Corey Foust | cott/ | | | | | | | |
| How Many? +3 | | | | Other Personnel on Site: N | MacDonald Miller (N | MM) | | | | |
| Air Monitoring Personnel | on site: PBS/Dicksor | 1 | | K Fox Insulators | | | | | | |
| WORK DESCRIPTION: C | lean column cavity. [| Dickson and MM a | are on site | completing punch list items. | | | | | | |
| WORKER PROTECTION: | ½ face respirator, ty | vek | | | | | | | | |
| METHOD OF REMOVAL: | use of saws and mai | nual removal, wet | wipe and | HEPA vacuuming | | | | | | |
| | | | | | | | | | | |
| OBSERVATIONS: | tainment is set u | n around love | I 2 colum | on cavity discovered 6/2 | | | | | | |
| 7630 PB3 On Site. Con | tainment is set u | p around leve | i Z Coluii | nn cavity discovered 6/2. | | | | | | |
| | | • | 5 57 . | n and framing for access ning floor. One worker as | , | 9 | | | | |
| orace framing through | out levels 1-3. | | | | | | | | | |
| | | | • | ping final punch list of ite e, sealing penetrations in | • | oleted. List | includes | | | |
| 1256 PBS visually insp | ect column cavit | y. Visual inspe | ction sat | isfactory, workers may co | ntinue with end | capsulation | | | | |
| 1400 PBS develop writ | tten list of final p | unch list items | s and co | mmunicate to Dickson an | d MM. | | | | | |
| 1430 PBS leaving site. | PBS will return 6 | /6 to run clear | rance sai | nple from column cavity | once encapsula | nt has settl | ed. | | | |
| 3 | | • | | , | , | | | | | |
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| ITEMS OF CONCERN: No | ne | | | | | | | | | |
| CHANGE IN CORE N | | | | | | | | | | |
| CHANGES IN SCOPE: Nor | ne | | | | | | | | | |
| QUANTITY AND TYPE AC | M REMOVED THIS SI | HIFT/ PHASE: | | BUILDING/AREA/LOCATION | | | | | | |
| NA | | • | | Olympic South Levels 1/2/3 | | | | | | |
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The individual signing certifies that the above information is correct and accurate.

Signature: Clause T sur

Date 6/3/2022



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|--|--------------|---------------------------------|--------------------------|---|------------------|------------|-------|
| Asbestos Contractor: Dickson | | | | Project Name: Olympic South A | Abatement & Rep | oairs | |
| PBS Site Observer(s): Claire Tsa | i | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 6/6/ | /2022 |
| | | | | Page 1 of 1 | Time | 0800 | am |
| ontractor on Site Personnel: | | | | | | | |
| roject Manager | Yes N | lo Supervisor Yes | s No | Summary Phase Status: Misc. P | unch list items | | |
| /orkers | Yes No | o Name: Randy Scot | tt | | | | |
| low Many? +1 | | | | Other Personnel on Site: MacD | onald Miller (MM | 1) | |
| air Monitoring Personnel on site | e: PBS/Dicks | son | | | | | |
| NORK DESCRIPTION: Clean co | olumn cavit | y. Dickson and MM are | on site co | ompleting punch list items. | | | |
| NORKER PROTECTION : NA | | | | | | | |
| METHOD OF REMOVAL: NA | | | | | | | |
| DESTRUCTIONS | | | | | | | |
| DBSERVATIONS: 00 PBS on site to run lev | el 2 colun | nn clearance. Rand | y and D | an are on site. | | | |
| 15 PBS set up clearance | air sample | e for level 2 colum | n contai | nment. | | | |
| 30 PBS walk all floors wit | • | | | | | | |
| 50 1 D5 Walk all Hoors Wit | ii Ranay . | to review iniai pair | cii iist o | riteriis. | | | |
| 145 One Dickson worker o | on site dro | opping off materia | Is befor | e returning to shop to unloa | ad truck and c | ontinue | |
| emobilization. | | 5 | | | | | |
| | | | | | | | |
| 142 PBS leaving site to dre | op of clea | arance sample at La | abcor fo | r analysis. | | | |
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| TENAC OF CONCERN N | | | | | | | |
| TEMS OF CONCERN: None | | | | | | | |
| | | | | | | | |
| CHANGES IN SCOPE: None | | | | | | | |
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| QUANTITY AND TYPE ACM REM | MOVED THIS | S SHIFT/ PHASE: | | BUILDING/AREA/LOCATION | | | |
| - | | , , , , , , , , , , , , , , , , | | | | | |
| NA | | | $\longrightarrow \vdash$ | Olympic South Levels 1/2/3 | | | |
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| | | | L | | | | |
| | | | | Signature: (Miller T | | | |
| The individual signing certifies t | hat the abo |)Ve | | Signature: (MM) | 1/11 | | |

The individual signing certifies that the above information is correct and accurate.

Signature: Claude T Sui
Name: Claire Tsai

Date 6/6/2022



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|--|-------------|--------|----------------|---------|----------|--|------------------|------------------|-------|
| Asbestos Contractor: Dicks | on | | | | | Project Name: Olympic South | Abatement & I | Repairs | |
| PBS Site Observer(s): Claire | Tsai | | | | | PBS Project No.: 40535.488 DES Project No.: 2021-192 | | Date: 6/8/20 | 022 |
| | | | | | | Page 1 of 1 | Time | 0800 a | m |
| Contractor on Site Personne | l: | | | | | | | | |
| Project Manager | Yes | No | Supervisor | Yes | No | Summary Phase Status: Misc. | Punch list items | 5 | |
| Workers | Yes | No | Name: Rand | y Scott | | | | | |
| How Many? + 1 | | | | | | Other Personnel on Site: Mac | Donald Miller (N | ИM) | |
| Air Monitoring Personnel on | site: PBS/I | Dickso | n | | | | | | |
| WORK DESCRIPTION: Dick | son and M | M are | on site comple | ting pu | nch list | items. | | | |
| WORKER PROTECTION: NA | A | | | | | | | | |
| METHOD OF REMOVAL: NA | Ą | | | | | | | | |
| OBSERVATIONS: | | | | | | | | | |
| 1845 PBS on site. PBS wa | alk throu | gh sit | e with Ranc | ly conf | firming | g punch list items have bee | n completed | | |
| evel 2 column cavity co | ntainmer | nt has | passed clea | arance | , conta | ainment has been taken do | wn. | | |
| 1150 PBS return cart to returned. | maintena | ince k | ouilding with | ı paint | cans | and maintenance contents | previously cl | eaned but not | t yet |
| 1 130 Dickson and MM leasbestos labeling and wi | • | | • | | | s complete. MM will be ma or pipe penetrations. | king a returr | n trip to finish | |
| 200 PBS return Dickson | ı's key se | t to C | Officer Natha | an at c | ampu | s security office. | | | |
| | | | _ | | | ster. PBS confirmed with Da still being used for conten | | | |
| I 215 PBS leaving site. | | | | | | | | | |
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| ITEMS OF CONCERN: None | | | | | | | | | |
| CHANGES IN SCOPE: None | | | | | | | | | |
| | | | | | | | | | |
| QUANTITY AND TYPE ACM I | REMOVED | THIS S | HIFT/ PHASE: | | - | BUILDING/AREA/LOCATION | | | |
| NA | | | | | | Olympic South Levels 1/2/3 | | | |
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The individual signing certifies that the above information is correct and accurate.

Signature: Claire Tsai

Date 6/8/2022



pbsusa.com

| Project Name: Pierce College Olympic South Emergency Cleanup | | th I.H. Stefan Rank | (iv | | WEATHER: | | | Conditions: | | | | | | | |
|--|---------------|---------------------|---------------|-------------------------------|-------------------|-------|----------|---------------|------------------|-----------------|-----|--------|------------|-----------|--|
| | .: 40535.488 | | | SAMPLE MEDIA/ANALYTICA | L METHOD: | NIOSH | | | | | | | | | |
| Location: 0 | Olympic South | Building | g | METHOD 7400 | | | TEMP: | - | | Mini enclosures | | | | -5 | |
| Contractor | : Dickson | | | | | | R.H. | - | | | | | | | |
| Client: DES | 5 | | | | | | FIELD CC | | 100 | | | | | | |
| | SHED BY (SI | GN.): | | | ANALYZEI | D BY: | vius | sai | DATE/TIME: 4130h | | | REMARK | S: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | IE: | ANALYZED BY: | | | DATE/TIME: | | | | TWA: | | | |
| IWA INSIDE AREA A AME | | | A AMBIENT AIR | PRE EX TEM | PRE-ABATEXCURSION | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | PRE | FLOW | AVG | TOTAL | FIB FLD | FIB CC | |
| 4/30/21 | NUMBER | C | - | 283 EDW | 0/100 | 725 | 905 | 100 | 12 | 12 | 12 | 1200 | 2/100 | 4.002 | |
| וטוערוו | 02 | C | - | W.Hall near 292 | 1 | 735 | 915 | 100 | 12 | 12 | 12 | | 2/100 | 4.002 | |
| | 03 | C | - | 284 W Door | | 905 | 1050 | 105 | 12 | 12 | 12 | 1260 | 2.5/100 | 4.002 | |
| | 04 | B | - | Field Blank | | _ | | | | | | - | %00 | | |
| 1 | 05 | B | - | Field Blank | 7 | _ | | | | | | | 0/100 | _ | |
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| Project Nar Emergency | ne: Pierce Co / Cleanup | ollege O | lympic Sou | ith I.H | · Claire Tsa | 1 | | WEATH | ER: | | Condition | ons: | | | |
|--------------------------|----------------------------------|-----------|------------|---------|-------------------------------|------------------|---------------------------------|----------|---------------|----------|---------------|--------|--------------|-------------------|-----------|
| Project No. | : 40535.488 | | | | MPLE MEDIA/ANALYTICA | AL METHOD: | NIOSH | | | | | | | | |
| Location: C | lympic South | n Buildin | g | IVII | ETHOD 7400 | | | TEMP: | _ | | M | ini | enc | losur | 25 |
| Contractor | : Dickson | | | | | | | R.H. | - | | | | | | |
| Client: DES | | | | | | | | FIELD CO | DUNT: | 100 | | | | | |
| | SHED BY (SI | GN.): | | | | ANALYZEI | 100 | vice- | Tow | DATE/ | TIME: 5/ | 3/21 | REMARK | KS: | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | | ANALYZEI | D BY: | , | | DATE/ | TIME: | | TWA: | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | | A AN | EARANCE MBIENT AIR ANK | PRE EX TEM | PRE-ABA EXCURSION CLEARAN | NC | LĒ | GBA H | GLOVE HEPA | BAG AR | | | |
| DATE | SAMPLE NUMBER CODE PUMP | | | | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | PRE | FLOW | AVG | TOTAL VOL | <u>FIB</u> FLD | FIB CC |
| 5/3/21 | | C | _ | Rn | 270 W wall | 9/100 | 844 | 1044 | 120 | 10 | 10 | 10 | 1200 | 2.5/100 | 4.002 |
| 0.0 | 07 | B | | _ | & Blank | - | - | | | | | | | %00 | _ |
| | 08 | B | - | Fie | ld Blank | _ | - | | | | | | | 9,00 | _ |
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| Project Nar Emergency | me: Pierce Co / Cleanup | ollege O | lympic Sou | 1.H. Claire Tsai | , | | WEATHI | ER: | | Conditi | ons: | | | |
|--------------------------|----------------------------------|-----------|------------|-----------------------------------|------------------|----------------------------------|----------|---------------|----------|---------------|--------|--------------|------------|-----------|
| Project No. | : 40535.488 | | | SAMPLE MEDIA/ANALYTICAL | METHOD: | NIOSH | | | | | | | | |
| Location: C | lympic South | n Buildin | g | METHOD 7400 | | | TEMP: | | | M | ini | en | closur | res |
| Contractor | Dickson | | | | | | R.H. | | | 1 ' ' | | | | |
| Client: DES | 7. = 7. | | | | | | FIELD CO | DUNT: | 100 | | | | | |
| RELINQUI | SHED BY (SI | GN.): | | | ANALYZE | D BY: Cla | we Fe | HI. | DATE/ | TIME: 5 | 14121 | REMARK | KS: | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | | , | | DATE/ | TIME: | | TWA: | | |
| | P PERSO IWA INSID OWA OUTS | E AREA | Α. | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | | LE | GBA H | GLOVE HEPA | BAG AR | | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 514/21 | 09 | C | - | Rm 172 Wwindows | 0/100 | 835 | 1044 | 129 | 10 | O | 10 | 1290 | 1.5/100 | 6.002 |
| 1 | 10 | C | _ | Rm 166AW door | 1 | 841 | 1044 | 123 | 10 | 10 | 10 | 1230 | 4.5/100 | 4.002 |
| | H | C | - | FLZ Mechanical Mezz | | 906 | 1106 | 120 | 10 | 10 | 10 | 1200 | 3.5/00 | 4.002 |
| | 12 | C | - | Kitchen W door | | 1051 | 1253 | 122 | 10 | 10 | 10 | 1220 | 2/100 | 4.002 |
| | 13 | C | = | Hall near 172 | | 1056 | 1257 | 121 | 10 | 10 | 10 | 1210 | 4/100 | 4.002 |
| | 14 | C | - | Rm 272 wwall | | 1123 | 132 | 129 | 10 | 10 | 10 | 1290 | 4.5/100 | 2.002 |
| | 15 | C | - : | ECE W WINDOW | | 234 | 414 | 100 | 12 | 12 | 12 | 1200 | 4/100 | 4.002 |
| | 16 | B | 1 | Field Blank | | | | | | | | | 9/100 | _ |
| ~ | 17 | B | _ | Field Blank | V - | | | | | | | | %00 | _ |
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| Project Nar | ne: Pierce Co / Cleanup | llege Ol | ympic Sout | Ferman Flet | clev | | WEATHE | R: | | Conditio | ns: | | | |
|-------------|----------------------------------|----------|---------------|-------------------------------------|------------------|---------------------------------|-------------|---------------|----------|-----------------|-----|--------------|------------|-----------|
| Project No. | : 40535.488 | | | SAMPLE MEDIA/ANALYTICAL METHOD 7400 | METHOD: | NIOSH | Cla | vay | | 6 | | | - | |
| Location: C | Nympic South | Building | 9 | METHOD 7400 | | | TEMP: | ~ ' | | | | | | |
| Contractor | : Dickson | | | | | | R.H. | | | | | | | |
| Client: DES | | | | | | | FIELD CO | UNT: | 100 | | | | | |
| RELINQUI | SHED BY (SI | GN.): | | | ANALYZEI | D BY: | 7- | 73 | | Z8/ | 24 | REMARK | S: | |
| RECEIVED | BY (SIGN.): | | DATE/TIME | | ANALYZEI | D BY: | // | | DATE/1 | TIME: | | TWA: | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | C A A B | AMBIENT AIR | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | | Ē | GBA H | GLOVE E HEPA | | | | |
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| roject Nam mergency | e: Pierce Co Cleanup | llege Oly | mpic South | I.H SAL | | | WEATHE | R: | | Conditio | ons: | | | |
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| Project No.: | 40535.488 | | | SAMPLE MEDIA/ANALYTICAL METHOD | METHOD: | NIOSH | | | | | | | | |
| ocation: Ol | ympic South | Building | | A STATE OF THE STA | | 1 | TEMP: | - | - | | | | | |
| Contractor. | Dickson | | | 7402 | | 1 | R.H. | | | | | | | |
| Client: DES | | 1 | | | | | FIELD CO | UNT: | 100 | | | | | |
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| | BY (SIGN.): | | DATE/TIME | | ANALYZE | D BY: | | | DATE/ | TIME: | | TWA: | | |
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| _ | me: Pierce Co | ollege O | lympic Soi | rth I.H | | | | | WEATH | ER: | | Conditi | ons: | | | |
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| Project No | o.: 40535.488 | | | | | DIA/ANALYTICAI | METHOD: | NIOSH | | ×[/ | | | | đ | | |
| Location: (| Olympic Sout | n Buildin | g | M | THOD 74 | 400 | | | TEMP: | | | W | йVи | end | osuves | > |
| Contracto | r: Dickson | • | | | | | | | R.H. | · · · · · · · · · · · · · · · · · · · | | | | | | |
| Client: DES | 5 | | | | | | | | FIELD C | OUNT: | 100 | | | | | |
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| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | , 0 | | ANALYZ | ED BY: | | | DATE/ | ГІМЕ: | | | | |
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| | .: 40535.488 | | | SA | MPLE N | MEDIA/ANALYTICAL | METHOD: | | 1 - | | | | | | | |
| Location: (| Olympic Sout | h Buildin | 19 | | NI | OSH 74 | 00 | | TEMP: | | | | | | | |
| Contracto | : Dickson | | | | , • • | • • | | | R.H. | | | | | | | |
| Client: DES | · | | | | | | | | FIELD CO | NINT. | 100 | 1 | | | | |
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| Project Name: | : Pierce Colle | ge Olym _i | pic South Al | batement and Repairs | | | | ER/TEMP: | - 1 | Comme | ints: | | | |
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| Project No.: 40 | 0535.488 | | | l.H.: Toan Nguyen | | | 7/0-80's | Fahrenhei | TI. | | | | | |
| Location: Lake | wood, WA | | | SAMPLE MEDIA/ANALYTIC | CAL METHOD: | : | | | | | | | | |
| Contractor: Di | ickson | | | 14103FI /400 | | | | | | | | | | |
| Client: DES | | | | | <u>i</u> | | | | | | | | | |
| RELINQUISHI Toan Nguyer | | - | DATE/TIMI 08/25/21 | 'E: | Mike Smit | th | | | DATE/I | FIME: 08/ | /31 | TWA: | | |
| RECEIVED BY | | | DATE/TIM | E: | ANALYZED | D BY: | | | DATE/T | TIME: | | | | |
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| 8/25/2021 | C1 | IWA | 8504 | Inside of room 168 | .5/100 | 834 | 1520 | 406 | 8 | 8 | 8 | 3248 | 4.5/100 | <0.001 |
| 8/25/2021 | C2 | В | _ | Blank 1 | | _ | - | - | - | - | | - | 1/100 | - |
| 8/25/2021 | С3 | В | _ | Blank 2 | | - | - | | - | - | - | - | 0/100 | - |
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| Project Name | : Pierce Colle | ege Olym | pic South A | batement and Repairs | | | | ER/TEMP | - | Comme | ents: | | | | |
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| Project No.: 4 | 0535.488 | | | I.H.: Toan Nguyen | | | 70-80's | Fahrenhe | it | | | | | | |
| Location: Lak | ewood, WA | | | SAMPLE MEDIA/ANALY NIOSH 7400 | TICAL METHOD: | | | | | | | | | | |
| Contractor: D | ickson | | | 1410311 7400 | | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | | |
| RELINQUISH | = | 1.): | DATE/TIM | IE: | ANALYZED | BY: Mike | Smith | | DATE/1 | IME: 8/3 | 31 | TWA: | | | |
| Toan Nauve RECEIVED BY | | | 08/26/21 DATE/TIM | IE: | ANALYZED | BY: | | | DATE/1 | IME: | | | | | |
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| 8/26/2021 | C4 | IWA | 8504 | Inside of room 168 | .5/100 | 649 | 1415 | 446 | 8 | 8 | 8 | 3568 | 2.5/100 | <0.001 | _ |
| 8/26/2021 | C5 | В | - | Blank 1 | | - | - | - | - | - | - | - | 0/100 | - | _ |
| 8/26/2021 | C6 | В | - | Blank 2 | | - | - | - | - | - | - | - | 1/100 | - | _ |
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| Project Name | e: Pierce Colle | ege Olym | pic South A | ∖bat | ement and Repairs | | | WEATH | ER/TEMP | : Sunny | Comme | ents: | ····· | · | |
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| Project No.: 4 | 40535.488 | | | | I.H.: Toan Nguyen | | | 70-80's | Fahrenhe | it | | | | | |
| Location: Lak | ewood, WA | | | | SAMPLE MEDIA/ANALYTI NIOSH 7400 | CAL METHOD | : | | | | | | | | |
| Contractor: D | Dickson | | | | 1400 | | | | | | | | | | |
| Client: DES | | | | | , | | | | | | | | | | |
| RELINQUISH Toan Nauye | | N.): | DATE/TIM 08/27/21 | 1E: | | ANALYZEI | D BY: Mike | Smith | | DATE/T | IME: 8/3 | 31 | TWA: | | ··· |
| RECEIVED BY | Y (SIGN.): | | DATE/TIM | 1E: | | ANALYZEI | D BY: | · · · · · · · · · · · · · · · · · · · | | DATE/T | IME: | | | | |
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| 8/27/2021 | C 7 | IWA | 8504 | | Inside of room 168 | | 630 | 1425 | 415 | 8 | 8 | 8 | 3320 | 9.5/100 | 0.001 |
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| 8/27/2021 | C9 | В | | | Blank 2 | | - | - | <u>-</u> | _ | | _ | - | 0/100 | |
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| Project Na | me: Pierce Co | ollege Oly | mpic South | n Abatement and Repairs | | | WEATH | ER/TEMP: | | Comme | nts: | | | |
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| Project No | .: 40535.488 | | | I.H. Peter Stens | land | | 603 | | | | | | | |
| Location: l | akewood, W | A | | SAMPLE MEDIA/ANALYT | ICAL METHOD | • | | | | | | | | |
| Contracto | r: Dickson | | **** | NIOSH 7400 | 9 | | | | | | | | | |
| Client: DES | S | | | | | | | 7 1 | | | | | <u> </u> | |
| RELINQUI | SHED BY (SI | 16 | DATE/TIM | 1E: 8/30/21 | ANALYZEI Mike | MITH/A/ | 25 K | | DATE/1 | IME: 3 \$ /2 | 21 | TWA: | | |
| | BY (SIGN.): | | DATE/TIM | | ANALYZE | D BY | | | DATE/1 | 'IME: | | | | |
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| | akewood, WA | | | i . | IA/ANALYTICAL | L METHOD: | : | 1 | | | | | | | |
| Contractor: | | | | WIOSH | 7400 | | | 1 | | | | | | | |
| Client: DES | <u></u> | *** | | | | | | | | | | | | | |
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| | BY (SIGN.): | | DATE/TIM | | | ANALYZEC | | | | DATE/T | IME: | | | | |
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| Project Nar | ne: Pierce Col | lege Olv | mpic South A | Abatement and Repairs | | | WEATHE | R/TEMP: | | Comme | nts: | | | A CONTRACTOR OF THE CONTRACTOR |
|-------------|--------------------------|-------------|---------------|-------------------------------|--|--------------------------------|----------------|--|---------------|---------------------|--------------|--|--|--|
| | : 40535.488 | | | I.H. TOAN. NOUYET | 1 | | | | | | | | | |
| | akewood, WA | | | SAMPLE MEDIA/ANALYTICA | | | | | | Karranna (app 1886) | | | | |
| Contractor | : Dickson | • | | | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | · · · · · | | |
| | SHED BY (SIG | 5N.): | DATE/TIME | | ANALYZE | D BY: | rahge | yer | DATE/1 වීර | FIME: 1/02/U | | TWA: | | |
| RECEIVED | BY (SIGN.): | - | DATE/TIME | | ANALYZE | D BY: | - 0 | U | DATE/ | TIME: | | O COLOR DE LA COLO | | |
| CODES: | P PERSCIWA INSIDOWA OUTS | E AREA | С А А В | | PRE EX TEM | PRE-ABA EXCURSIO CLEARAN | | E | GBA H | GLOVE I HEPA | BAG AR | | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FIB CC |
| od/oi | NUMBER L20 | A | 49 (| evider of 329 | 0/(00) | 6340 | 1405 | 325 | 2.5 | 25 | 25 | 812.52 | | 20,002 |
| 1 | (21 | TWA | + | Inside of maintenance | hed | 640 | 1130 | 290 | 4 | 4 | 8 | 2320 | | 0.002 |
| | 177- | àuA | 1. 2 4 | Juside of maintenance s | | 630 | 1020 | 230 | 5 | 5 | 5 | 1150 | | 0,003 40,002 |
| | (23 | PRF | | Inside of room, 329 | | 1200 | 1420 | 140 | 10 | 10 | 10 | 1400 | 3/100 | 10,002 |
| | 024 | B | | BLANK I | | | | | | | | | \$/100 %106 | |
| V | 025 | 8 | | LANK 2 | <u> </u> | | | | 1/ | | - | | 7,000 | |
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| Recount | Sample # | - | Recount | | | | | | | | | | | |
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| Project Name: Pierce College Olympic South Abatement and Repairs | | | | | | | | WEATHER/TEMP: Comments: | | | | | | | |
|--|--------|-------|--------|---|---------------------------------|--|---------------------|-------------------------|----------|----------------------|----------|----------|--------|--------|--|
| Project No.: 40535.488 | | | | I.H. T.NGUYEN P. | | | | | | | | | | | |
| Location: Lakewood, WA Contractor: Dickson | | | | SAMPLE MEDIA/ANALYTICA | SAMPLE MEDIA/ANALYTICAL METHOD: | | | | | | | | | | |
| | | | | NIOSH 7400 | | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | <u>.</u> | | **** | | |
| RELINQUISHED BY (SIGN.): DATE/TIME: RECEIVED BY (SIGN.): DATE/TIME: | | | | IE: | anhayer " | | DATE/TIME: 09/03/Z1 | | | TWA: | | | | | |
| | | | | 1E: | ANALYZED BY: | | | 0 11 | | DATE/TIME: | | 4 | | | |
| CODES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA | | | | C CLEARANCE A AMBIENT AIR B BLANK | | PRE-ABATEMENT EXCURSION CLEARANCE SAMPLE | | LE | GBA H | GLOVE BAG AR HEPA | | REA | | | |
| DATE | SAMPLE | CODE | РЏМР | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | | FIB | |
| DATE | NUMBER | CODE | PUMP | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC | |
| ૦૧/૦ ૭ | CZ6 | Iu4 | 1696 | Inside of maintenance du | 20/ 9/00 | 1129 | 1410 | 161 | 8 | 8 | 8 | 12554 | | 0:0076 | |
| | CZ7 | OWA | 4419-9 | Outside of maintenance s | iled \ | 0700 | 1408 | 428 | 5 | 5 | 5 | Z140L | 5/100 | 40,007 | |
| | CZ8 | IWA | 1696 | Inside of maintenance th | od | 0655 | 815 <u>5</u> | 140 | 8 | \$ | 8 | 14401 | 22/100 | | |
| | czu | IWA | 1606 | Inside of 166A | | 0715 | 1415 | 420 | 5 | 5 | 5 | 21001 | 5/100 | | |
| | C30 | ava | HU18-1 | SOUTH pleasion of Rm. 329 | 1 / | 1155 | 1405 | 130 | (0) | 10 | 10 | 1300C | | L0-002 | |
| | C31 | A | 49 | Central of E. Comider by Fo | | 0450 | 1404 | 254 | 2.3 | 2.3 | 2.3 | SSYL | 15/100 | 0.013 | |
| 1 | C32 | B | | BLANK 1 | | | | | | | | | 0/(00 | | |
| 7 | 133 | 6 | | BLANK Z | V | | | | | | | | 0/100 | | |
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| Recount Sample # Recount | | | | | | | | | | | | | | | |
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| Project Name: Pierce College Olympic South Abatement and Repairs | | | | | | | | WEATHER/TEMP: Comments: | | | | | | | |
|--|--------------------------|-------------|---------|------------------------------|---------------------------------|---------------------------------------|------|-------------------------|---------------------|-----------------|----------|--|----------|-----------|--|
| | .: 40535.488 | | · | I.H. T. NG-UYEN | | | | | | | | | | | |
| .ocation: La | akewood, WA | \ \ | | 8 | SAMPLE MEDIA/ANALYTICAL METHOD: | | | | | | | | | | |
| Contractor: | Dickson | 1 | | NIOSH 7400 | | | | | 1222 | | | | | | |
| Client: DES | | | | | | | | | | | | | | , <u></u> | |
| RELINQUISHED BY (SIGN.): DATE/TIME: | | | | 1E: | ANALYZE | DBY: | ~ | | DATE/TIME: 09/07/21 | | | TWA: | | | |
| RECEIVED BY (SIGN.): DATE/TIME: | | | | IE: | ANALYZE | D BY: | | | DATE/T | | | and the second s | | | |
| CODES: P PERSONAL C IWA INSIDE AREA A OWA OUTSIDE AREA B | | | , | | PRE EX TEM | PRE-ABATI EXCURSIO CLEARANG | NC | .E | | GLOVE B HEPA | 3AG ARI | EA | | | |
| CAMPLE | | | | LOCATION | BLANK | · · · · · · · · · · · · · · · · · · · | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB | |
| DATE | NUMBER | CODE | PUMP | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | | FLD | СС | |
| 09/07/21 | C34 | OWA | HV19-9 | outside of maintenance yeard | 100)(00) | 0635 | 1235 | 360 | 5 | 5 | 5 | 1800L | 1 | 0.002 | |
| Company of the Compan | 035 | TWA | " | Inside of maintenance years | 4 | 0635 | 1025 | 230 | \$ | 8 | 8 | 18402 | | 0.007 | |
| | C36 | A | 89 | Corridor of Rm. 324 | | 0825 | 1320 | | 2.3 | | 2,3 | 701.5L | | 0.004 | |
| | C357 | OWA | HV-13-1 | OWA @ Hatch Rm32 | · <u>\$</u> | 08 22 | 1123 | 181 | 10 | 10 | 10 | 1810L | 15/100 | ०,००५ | |
| | C345 | TurA | | Inside Rm. 1664 | | 0795 | 1350 | 365 | 5 | 5 | 5 | 1825L | 2Z/100 | 0.006 | |
| | C39 | B | | BLANK I | | | | | | 1_ | | | 0/100 | | |
| | C40 | 6 | | BLANK 2 | 1 | | | | | | | | 0/100 | | |
| W | 1 10 | 1 | T . | | | | | | | | - | | | | |
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| Recount S | | | Recount | | | | | | | | | | | | |
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| Project Name: Pierce College Olympic South Abatement and Repairs | | | | | | | | WEATHER/TEMP: Comments: | | | | | | | | |
|--|-------------|--|----------|---|---------------------|---------------------------------|------|--|---------------|--|--|--|------------|-----------|--|--|
| Project No.: 40535.488 | | | | I.H. Peter Steplan | I.H. Peter Sterland | | | | | H. Carrier | | | | | | |
| Location: La | akewood, WA | 1 | | SAMPLE MEDIA/ANALYTICA | AL METHOD | D: | | | | | | | | | | |
| Contractor: | | | | NIOSH 7400 | NIOSH 7400 | | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | | | |
| RELINQUISHED BY (SIGN.): DATE/TIME: Pute Struth 9/7/2 | | | | 'E: '21 | ANALYZI | ED BY anhqui | x4 - | | DATE/T | TIME: 08/21 | | TWA: | | | | |
| | | | DATE/TIM | | ANALYZE | ED BY: | 7 | | | DATE/TIME: | | | | | | |
| CODES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA | | | , | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | | | GBA H | GLOVE BAG ARI HEPA | | E A | | | | |
| DATE | DATE SAMPLE | | PUMP | LOCATION | BLANK | | TIME | TOTAL | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FIB CC | | |
| | NUMBER | | | ACTIVITY / PERSON | 2/100\ | ON | OFF | TIME | PKE | rusi | AVG | VOL | 1/100 | | | |
| 9/7/21 | C41 | B | | Blank | 7100 | + | | | // | | | | 3/100 | | | |
| 9/7/21 | C42 | IWA | 1696 | Maintenance Shed SB | | C:50° | 1:05 | 375 | 4 | 4 | 4 | 1500 | 15/100 | 0.005 | | |
| 9/7/21 | | | | Outside Manheron Shed | 1 | 6:35 | 1:08 | 393 | 4 | 4 | 4 | 1572 | 8/100 | 0:002 | | |
| 9/7/21 | | OWA | HV18-1 | 5 Elevation of run 329 | 17 | 10:46 | 1:22 | 156 | 10 | 10 | 10 | 1,560 | 15/100 | 0:005 | | |
| 9/7/21 | 046 | A | 90 | Corrdor of norm 329 | | 8:50 | 1:20 | 270 | 2,2 | 2,0 | 2.1 | 567 | 10/100 | 0.009 | | |
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| | | | <u> </u> | | | 1 | WEATHE | R/TEMP: | | Commen | ıts: | | | |
|-------------|----------------------|-----------------|--------------------|------------------------|----------|---------------------------------|--------|--|--|----------|----------|--------------|----------|--------|
| Project Nar | ne: Pierce Col | lege Oly | mpic South | Abatement and Repairs | | | | | | | | | | |
| Project No. | : 40535.488 | | | I.H. PETER STENS | | | 40 | ` 5 | | | | | | |
| Location: L | akewood, WA | | | SAMPLE MEDIA/ANALYTICA | | | | | | | | | | |
| Contractor | Dickson | **** | | N105H 7400 |) | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| | SH ЕР ВУ/(SK | ⊋ / 1.): | DATE/TIME | : | ANALYZED | / | 11/ | 1+ | DATE/T | | | TWA: | | |
| 21.6 | | T | 9/8/2 DATE/TIME | | ANALYZED | BY: / | | | DATE/T | | | | | III. |
| RECEIVED | BY (SIGN.): | | DATE/TIME | | | | | | | GLOVE B | AG AP | EΔ | | |
| CODES: | P PERSC IWA INSID | E AREA | Α | | EX | PRE-ABAT EXCURSIO CLEARAN | | .E | GBA H | HEPA | NA DA | LA | | |
| | OWA OUTS | DE AREA | 1 | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| DATE | SAMPLE NUMBER | CODE | PUMP | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 9/8/21 | C47 | B | | FIELD BLANK | | | | | | | | | 100 | |
| 1 | C48 | В | | FIELD BLANK | | | | | | | | | 0/100 | 563 |
| \Box | C49 | AWI | 1696 | MAINTENANCE SHED S. | | | 1415 | | 14 | 4_ | 4 | 1760 | 7100 | 0.063 |
| | C50 | OWA | T- | OUTSIDE OF MAINT SHED | | | 1416 | | 4- | 4 | 14 | 1664 | 6.51 | 40.005 |
| 7 | c51 | A | | 3th fl N' CORR | 0/100 | 0822 | 1345 | 323 | 2.1 | 2.1 | 12. | 678 | /100 | 0.005 |
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| Recount | Sample # | c49 | Recount | 9/100 | | | | | | | | | | |
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| oject Nam | ne: Pierce Col | lege Olyr | npic South | Abatement and Repairs | | | WEATHE | | | Commen | ts: | | | |
|-------------|---|--|---------------------|---------------------------------------|---------------------|---------------------------------|----------|---------|----------|-----------------|----------------|--|------------|-----------|
| | 40535.488 | <u>-</u> | | I.H. PETER STENS | SLAND | | 105~ | 805 | : | | | | | |
| | kewood, WA | | | SAMPLE MEDIA/ANALYTIC | AL METHOD: | | | | | | | | | |
| ontractor: | Dickson | | | NIOSH 7400 | , | | | | | | | | | |
| lient: DES | | | | | | | | 1-1- | DATE | 11.4E+ | - | TWA: | <u> </u> | |
| FLINIOLIIS | SHED BY (SIG | 79/ | DATE/TIMI 9/9/21 | <u>:</u> | ANALYZED MIKE Sm | BY: | LK | | DATE/1 | / ~~ | _ | | | ~ |
| ECEINED | ты //// ву (\$i 6 N.): | | DATE/TIM | | ANALYZED | BY! | - | | DATE/ | гіме: | | 65 de la composición della com | | |
| .02 | P PERSO IWA INSIDI | E AREA | | CLEARANCE A AMBIENT AIR B BLANK | EX | PRE-ABAT EXCURSIC CLEARAN | N | , .E | GBA H | GLOVE B HEPA | AĞ AR | EA | | |
| | OWA OUTSI | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB FLD | FIB CC |
| DATE | NUMBER | CODE | PUMP | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | | | 0.005 |
| 3/9/21 | 052 | PRE | HV135 | CASCHDE 432 TNSIDE OF THEMED ST | 0/100 | 0834 | | 226 | 6 | 6 | 6 | 1356 | 14/100 | |
| 7_ | C53 | INA | HVBS | CASCADE 432 INSIDE OF THEATER STOP | 46¢ %00 | 1220 | | | 5 | 5 | 0 | 525 | 5/100 | 0.00 |
| | C54 | IWA | 1600 | INSIDE OF 166A | 9/100 | | 0810 | _, | 4 | 4 | 4 | 1732 | 2/100 | (A . DA |
| | C55 | OWA | | OUTSIDE MAINT SHED | 0/100 | | 1345 | | 3 | 3 | 3 | 1305 | | 0.01 |
| | C56 | IWA | HVAA | INSIDE OF MAINT SI | $\frac{100}{100}$ | 0630 | 1345 | 433 | 13 | | | ÷ 0.00 | %00 | |
| | C57 | B | | FIELD BLANK | | | | | <u> </u> | | | -> | 0/100 | |
| <u> </u> | C58 | 8 | | FIELD BLANK | | | | | | | | | 7,50 | |
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| Project Na | me: Pierce Co | llege Oly | ympic Sout | h Abatement and Repa | airs | | | WEATHI | R/TEMP: | | Comme | nts: | | | |
|-------------|--|-------------------------------|------------|---|-------------|------------------|---------------------------------|---------|---------|----------|-----------------|---------|-------|--------|--------|
| Project No | .: 40535.488 | | | 1.H. Deter | Stensland | l | | 60 | S | | | | | | |
| Location: L | akewood, W | 4 | | SAMPLE MEDIA/ | | | D: | | | | | | | | |
| Contractor | : Dickson | | | NIOSH | <i>7</i> 4∞ | | | | | | | | | | |
| Client: DES | | | | , | . , - | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | | | ANALYZE | D BY: | en | | DATE/T | IME: 09/13/ | 121 | TWA: | | |
| | | | DATE/TIM | 1 | | ANALYZE | ~ | | | DATE/T | • | , | | | |
| CODES: | IWA INSID | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | .E | | GLOVE E HEPA | BAG ARE | :A | | |
| DATE | NOUISHED BY (SIGN.): DATE, The Standar EIVED BY (SIGN.): DATE, DATE | | | LOCATIO | | BLANK | | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| | | | | ACTIVITY / PE | RSON | 1/(00) | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 9/10/21 | i | 13 | | | | 17(00) | | | _ | | | | - | 2/100 | |
| <u> </u> | | <u> 13</u> | | Blank | | | ():50 | | 201 | <u> </u> | | | 1.00 | 0/160 | |
| | | CGI IWA 1696 Maintenance Shed | | | | | 6:50 | | 290 | 4 | 4 | 4 | 1160 | 20/100 | 0.503 |
| | C62 | | HV19-9 | Maintenance Street | George De | / | 6:55 | 1:30 | 395 | 3 | 3 | 3 | 1,185 | 2/100 | <0,002 |
| | C63 | IVA | HV13S | Cascade 43 | 32 | | 7:20 | (C), SC | 180 | 7 | 7 | 7 | 1,260 | 32/100 | 0.012 |
| | C64 | IWA | 2090 | LVZ Mechanic | al Mezz. | | 9:22 | 2:30 | 308 | 2.5 | 2.2 | 2.35 | 724 | 64/100 | 0,04 |
| | C65 | A | 3055 | 3rd Floor hall | | | 9:40 | 2:25 | 285 | 2,75 | 2,2 | 2.48 | 707 | 8/100 | 0.006 |
| V | C-66 | OWA | HV135 | Coscale 320 C | 7 | V | 10:25 | 2-15 | 230 | 7 | 7 | 7 | 1,610 | 2/160 | <0.002 |
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| Project Na | me: Pierce Co | ollege Ol | ympic Sout | th Abatement and Repairs | | | WEATH | ER/TEMP | • | Comme | ents: | | | |
|-------------|----------------------------------|-------------|------------------|---|--|----------|--------------|------------|--------------|-----------------|--------------|-------|--------|--------|
| Project No | .: 40535.488 | | | I.H. Peter Stensl | ر د | | 60 | ۲ ا | | | | | | |
| Location: l | _akewood, W | A | | SAMPLE MEDIA/ANALYTIC | | D: | | | | | | | | |
| Contractor | : Dickson | | | NIOSH 740 | 9 | | | | | | | | | |
| Client: DES | 5 | | | | | | | / | | | | | | |
| RELINQUI | SHED BY (SI | ~ | DATE/TIN | ME: 13/2/ | | | 10/ | | DATE/1 | TIME: 4/21 | | TWA: | | |
| | BY (SIGN.): | | DATE/TIN | | | | AUT A | → ¥ | + | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | EXCURSIO | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION | ANALYZED BY: Mike mirel Mike mirel Mike mirel Mike mirel Mike Mik | | | | | | TOTAL | FIB | FIB | |
| 0/12/21 | | B | | ACTIVITY / PERSON | | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 9/13/21 | | B | | Blank | [/[00] | | | | | | | | 1/100 | |
| | C68 | | 27 | Blank | | 1/130 | 200 | | 2.3 1.8 2.05 | | | | 1/100 | |
| | C69 | H | 97 | Cas 432 exhaust | | | | | - | _ | | 947 | 7/100 | 0.003 |
| | C70 | OWA | 141135 | Cos 320 catwalk | 1 | | i | - | | | | 1904 | | (0.001 |
| | <u>_71</u> | OWA | 1-1119-9 | Maintenance Shed Garage de | | 6:35 | 1:06 | | 3 | | | Ų73 | 25/100 | 0.002 |
| | C72 | IWA | 1696 | Maintenance Shed S Elec | | 6:35 | 1:04 | 389 | 4 | 4 | 4 | 1556 | 6/100 | <0.002 |
| | C73 | H | 039 | LV2 W HEPA 4 | | 6:52 | 2:45 | 473 | 2.4 | 2.4 | 2.4 | 1135 | 0/100 | 400.00 |
| | C74 | H | 3055 | Roof HEPA NAGE | | 7:40 | 7:20 | 400 | 2.8 | 2.2 | 2.5 | 1,000 | 1/100 | 400.00 |
| | C75 | H | 690 | Maintenance Shed HEPAI | | 8:08 | 2:11 | 363 | 24 | 2.4 | 2.4 | 871 | 9/100 | 400.00 |
| | C76 | Α | Hr/8-1 | LV3 Olymic S HI 327 | / | 8:25 | 2:34 | 369 | 4 | 4 | 4 | 1,476 | 23/100 | F00.0 |
| <₩ | C77 | IWA | HV135 | Cas 432 storage | | 10:30 | 2:.00 | 210 | 8 | 8 | 8 | 1,680 | OUERL | |
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| Recount Sa | mnle # | e76 | Recount | 25/20 | | | | | | | | | | |
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| | | | pbsusa.c | | <u> </u> | | | V | WEATHER | /TEMP: | C | omment | s: | | | |
|------------|-----------------------|--|--------------|------------------|---------------|--|----------|-----------------|----------|----------------|--------|-------------|--------------|-------|---------|--|
| oject Nam | e: Pierce Coll | ege Olyr | npic South A | Abatement and Re | epairs 1 | <u> </u> | - | | 605 | | | | | | | |
| oject No.: | 40535.488 | | | 1.H. Peter | Stensland | | <u> </u> | | 603 | | | | | | | |
| cation: La | kewood, WA | | | | IA/ANALYTICAL | MEIH | OD: | | | | | | | | | |
| ntractor: | Dickson | | | NIOSH | 7400 | | | 1 | | | | | | | | |
| ient: DES | | | | | | | | | <u></u> | | DATE/T | IME: | | TWA: | | |
| | HED BY (SIG | iN.): | DATE/TIME | ; | | ANAL | ZED | BY: enhqu | yen | | | | | _ | | |
| Peter | Starel | | Q/14/ | | | ANAL | YZED | BY: | 7 | | DATE/T | IME: | | | | |
| ECEIVED | BY (SIGN.): | | DATE, TIME | | | PRE | | PRE-ABAT | EMENT | | GBA | GLOVE BA | AG ARI | EA | | |
| | P PERSO IWA INSIDE | | C | | | EX | | EXCURSIO | N | τ' | H | HEPA | | | | |
| | OWA OUTSI | DE AREA | | BLANK | | TEM | | TIME | CE SAMPL | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| DATE | SAMPLE | CODE | PUMP | LOCA ACTIVITY | | BLA AV | | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| | NUMBER | В | | Blank | 7 1 210 011 | 4 | 100 | | | | | | | | 1/100 | <u>/</u> |
| 9/14/2 | | | | Blank | | 1 | | | | | | | / | | 1/100 | 0.005 |
| | <u> </u> | B | 97 | | Theatre Skra | 1 | | 6:36 | 2;45 | 486 | 12_ | 2 | 2 | 972 | 10/100 | 0.007 |
| | C80 | GWA | HVM-9 | <u> </u> | Shad Sterage | 1 1 | | 6:40 | 11:10 | 270 | 5 | 5 | 5 | 1,350 | 7/100 | |
| | <u>81</u> | TWA | HV135 | | Thate Storage | | | 6:45 | 10:20 | 215 | 8 | 8 | 8 | 1720 | overloa | |
| | C82 C83 | IWA | + | Maintenance | shed Sterag | | | 6:45 | 11:10 | 265 | 5_ | 5 | 5 | 1325 | 3.5/100 | 40.00 |
| | + | I H | 76 | Maintenance | shed Storage | 1 1 | | 7;∞ | [1:15 | 255 | 5 | 5 | 5 | 1275 | 9/100 | 0.00 |
| _ | C85 | 14 | 14/18-1 | 1-1/3 Oly | 4 11 1 | - 1 | | 7:10 | 11:19 | 249 | 5 | 5 | 5 | 1245 | 1/100 | ∠0.00 |
| | C8C | H | 089 | LVZ W | HEPA 3 | $\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ | | 7:25 | 1:56 | 391 | 2,5 | | 2.5 | 1480 | 2/100 | 40.00 |
| 1 | C87 | OWA | | Cas 32 | O catualle | V | | 10:20 | 1:31 | 182 | 8 | 8 | 8 | 1,700 | - | 0.00 |
| <u> </u> | 1001 | 1 | LIVIDO | | | | | | | <u> </u> | | + | - | | | |
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| roject Nam | ne: Pierce Col | lege Olyr | mpic South | Abatement and Re | epairs | | | WEATHE | | | Commen | 15. | | | |
| | 40535.488 | | | | Stensland | | | 60,2 | | | | | | | |
| | kewood, WA | | | SAMPLE MED | IA/ANALYTICAL | METHO | D: | | | | | | | | |
| ontractor: | | | | T WIGH | H 7400 | | | | | | | | | | |
| · | Dickson | · · · · · · · · · · · · · · · · · · · | | - ''' | , , , , -0 | | | 1 | | | | | | | |
| lient: DES | HED BY (SIG | in.): | DATE/TIME | <u> </u> | | ANALYZI | ED BY: en hoguye | . / | | DATE/T | IME: | | TWA: | | |
| 1 the | Strull | | 9/15/ | /2/ | | ANALYZ | en pri | | | DATE/T | | | | | |
| ECEIVED | BY (SIGN.): | | DATE/TIME | : | | ANALTZ | | | | | _ | | | | |
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| | owa outsi | | | BLANK LOCA | TION | BLANK | | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| DATE | SAMPLE NUMBER | CODE | PUMP | ACTIVITY / | | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 9/15/21 | | B | | Blank | | 1/100 | | | | | | | | 0/100 | |
| , | C 89 | B | | Blank | | | | | | | / | | 1050 | 2/100 | 6.003 |
| | C90 | OWA | HV135 | Cas 432 | halling | | 6:31 | 10:23 | 232 | 8 | 8 | 8 | 1856 | W/100 | <u> </u> |
| | cal | IWA | 1696 | Maintenance | Shad Stoney | | 6:40 | 11:10 | 270 | 5_ | 5 | 5 | | 8/100 | 40.00 |
| | cqz | Н | 3055 | Cas 432 | Exhaust | | 6:45 | 1:28 | 403 | | 2.2 | 7.2 | | 2/100 | 40.00 |
| | c93 | H | 090 | Maintenance | | 1 | 6.50 | | 300 | 2.5 | 2.1 | 2,3 s | 925 | 1.5/wo | Lo.00 |
| | C94 | OWA | 8504 | Maintenna S | had garage do | | 8:10 | | 185 | 5 | | 8 | 1360 | 20/100 | 0.00 |
| | C 95 | IWA | HV135 | Cas 432 | Storage | 10 | 10:2 | 6 1:16 | 170 | 8_ | 8 | a | 1,360 | 20/100 | + |
| |)· | | | | | | | | | <u> </u> | <u> </u> | <u> </u> | | | |
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| Recount : | Sample # | | Recount | | | | | | | | | | | | |
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| Project Na | me: Pierce Co | ollege Ol | ympic Sout | th Abatement and Repairs | | | | WEATH | ER/TEMP: | | Comme | nts: | | | |
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| Project No | RQUISHED BY (SIGN.): ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA FOUT LOG BY LOG B | | | I.H. T. NGUYEN | | | | 1 | | | | | | | |
| Location: L | akewood, W | A | | SAMPLE MEDIA/ANALYTICA | | HOD: | | | | | | | | | |
| Contractor | : Dickson | | | NIOSH 740 | ÓĈ | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | | |
| | | GN.): | DATE/TIN | ΛE: | ANAL | YZED | BY: hywyer | | | DATE/I | IME: 7/21, | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANAL | YZED | BY: U | | | DATE/1 | | | , | | |
| CODES: | IWA INSID | E AREA | Δ | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG ARI | EA | | |
| DATE | | CODE | PUMP | LOCATION | BLA | | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| a h (a) | IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA B BLANK ATE SAMPLE NUMBER CODE PUMP LOCATIO ACTIVITY/PE 6/11 CAS B ANK 1 GA TWA HV135 Inside theates GA OWA HV135 Outside Em. 452 stor Oversing area | | | | AV | | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 9/16/21 | | ' | | | 0/(0 | 0 | | | | | | | | 0/100 | |
| | | _ | | | | \dashv | | 1 | 7 | - | | | | 0/100 | |
| igwdap | 44 | IWA | 3 | Inside theatre storage 437 | : | \bot | 8645 | 1018 | 213 | | 8 | 8 | 1704 | 20/160 | 0.006 |
| | (99 | | | - Dressing area | | \angle | 1630 | 1315 | 165 | 8 | В | 8 | 1320 | 5/100 | ۲٥.002 |
| | C106 | H | 90 | HEPA exhaust - Rom. 432 | | / | 0647 | 1315 | 388 | 2.3 | (, 9 | 2.1 | 814-8 | 2/100 | <0.002 |
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| | | | | | | <u> </u> | | WEATHER | 2/TENAD+ | | Commen | ts: | | | - |
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| Project Nan | ne: Pierce Col | lege Oly | mpic South A | Abatement and Re | | | | | | ľ | | | | | |
| ²roject No.: | : 40535.488 | | | 1.H. Peter | Stersland | | | 600 | ٢ | | | | | | |
| Location: La | akewood, WA | | | SAMPLE MEDI | IA/ANALYTICAI | L METHOD: | ļ | | | | | | | | |
| Contractor: | Dickson | | | J NTOJ | 17400 | | | | | | | | | | |
| Client: DES | | | | | | · | | | | | BAT- | 1 | TWA: | | |
| | | 5N.): | DATE/TIME: | 121 | | ANALYZED | BY: | yr- | | DATE/TI | | | IVVA | | |
| | | | DATE/TIME | | ····· | ANALYZED | ВҮ: | 7 | | DATE/T | IME: | | | | |
| | IWA INSIDI | E AREA | С А В | CLEARANCE AMBIENT AIR BLANK | | EX | PRE-ABAT EXCURSIO CLEARAN | | .E | | GLOVE B. HEPA | AG ÄRI | EA . | | |
| | PES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA NUMBER 17/2 CIO3 B CIOH B | | | LOCAT | ION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB FLD | FIB CC |
| DATE | EIVED BY (SIGN.): DATE/TI DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE CODE PUMP (17/2 C103 B C104 B C105 OVA HVI3 C10C H 97 | | | ACTIVITY / | PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | 0/(0) | |
| 9/17/2 | 17/2 C103 B C104 B C105 OVA HV139 | | | Blank_ | | 0/100 | | | | | | | | 0/100 | |
| | 17/2 C103 B C104 B | | | Blunk | 5 11 h | + | (. 11- | 12:14 | 327 | 8 | 8 | B | 26 16 | 24/100 | 0,004 |
| | C104 B C105 OVA HV135 | | | Cas 432 | . /. | +-/- | 6:47 | 12.13 | 386 | 2 | 2 | 2 | 772 | 25/160 | |
| | · · | | | <u>Cas</u> 432 | 2 Exhaust | +1/- | 6:49 | | - | | 5 | 5 | 2,025 | 13/100 | 0,003 |
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| Project Na | ıme: Pierce Co | llege Oly | mpic South | Abatement and Repairs | | | WEATH | ER/TEMP: | ! | Comme | nts: | | | |
|-------------|--|---------------|------------|---|------------------|---------------------------------|-------|----------|----------|--|---------|--------------|------------|-----------|
| Project No | o.: 40535.488 | | | I.H. T. NGUYEN | | | | | | | | , | | |
| Location: 1 | tion: Lakewood, WA tractor: Dickson ht: DES NQUISHED BY (SIGN.): DATE/T EIVED BY (SIGN.): DATE/T DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA PUMP NUMBER CODE PUMP | | | SAMPLE MEDIA/ANALYTIC | | : | 1 | | | | | | | |
| Contracto | r: Dickson | | ···· | NILOSH 74 | 00 | | | | | No. of the latest of the lates | | | | |
| Client: DE: | S | | | | | | | | | | | | | |
| RELINQU | Tractor: Dickson Int: DES INQUISHED BY (SIGN.): EIVED BY (SIGN.): DATE/TI DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP CIOP B | | | E: 21/21 | ANALYZE | DBY: Shopen | | | DATE/I | TIME: | | TWA: | | |
| | INQUISHED BY (SIGN.): DATE/T DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA DUTSIDE AREA OWA OUTSIDE AREA | | | | ANALYZE | | | | DATE/1 | | | | | |
| CODES: | ation: Lakewood, WA tractor: Dickson INQUISHED BY (SIGN.): DATE/TI DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA CITO CITO A S9 COUNT Sample # Recount Count Sample # Recount | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | NC | LE | GBA H | GLOVE E HEPA | BAG ARI | L EA | | |
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| met /0.2 | ation: Lakewood, WA tractor: Dickson INQUISHED BY (SIGN.): COMMUSHED BY (SIGN.): DATE/TO SEIVED BY (SIGN.): DATE/TO SEIVED BY (SIGN.): DATE/TO DATE/TO DATE/TO DATE/TO DATE/TO SEIVED BY (SIGN.): DATE/TO DATE/TO DATE/TO DATE/TO DATE/TO SEIVED BY (SIGN.): DATE/TO DATE/TO SEIVED BY (SIGN.): | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | 7/t00 | |
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| Project Na | me: Pierce C | ollege Ol | lympic Sout ^l | h Abatement and Repairs | | **** | WEATH | ER/TEMP | : | Comme | nts: | | | |
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| Contractor | r: Dickson | | | NIIOSH 7 | 400 | | | U | | | | | | |
| Client: DES | 3 | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | IGN.): | DATE/TIM | IE: | ANALYZE | DBY: Scripeys | M. | | DATE/T | IME: 23/21 | | TWA: | | |
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| | IWA INSID | DE AREA | , | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | NC | LE | GBA H | GLOVE E HEPA | 3AG AR | EA | | |
| DATE | No.: 40535.488 n: Lakewood, WA stor: Dickson DES QUISHED BY (SIGN.): P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE NUMBER CODE CI12 CI12 CI13 CI14 CU15 CI15 CI15 CI16 DWA SOFT t Sample # Recoun | | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME ON | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL | FIB FLD | FIB CC |
| 09/21/21 | all | В | | BLANK 1 | Nop | | <u> </u> | | | 7.00. | 7 | VOL | 0/100 | |
| 1 | · | | | BLANK 2 | 1 | | | | | | | | 2/100 | |
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| | e: Pierce Col and Repairs | | mpic South | I ONUVE | | | WEATHE | K: | | -onaitioi | 15. | | | |
| Project No.: | 40535.488 | | | SAMPLE MEDIA/ANALYTIC | | 1 | | | | | | | | |
| Location: Ol | ympic South | Building | | NIOSH 76 | 160 | | TEMP: | | | | | | | |
| Contractor: | Dickson | | | | , - | | R.H. | | | | | | | |
| Client: DES | | | | | | | FIELD CO | UNT: | 100 | | | | | |
| | HED BY (SIG | 5N.): | | | ANALYZED | BY: | | | DATE/TI | ME: 3/2-l | 1 | REMARK! | 5 : | |
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| 09/22/21 | | B | | BLANK 2 | 1 | | | | | | | | 6/(60 | |
| \ <u>\</u> | 0118 | | 1696 | BLY N. ceridor | | 0842 | 1417 | 335 | 6 | 6 | 6 | 2010 | 6/100 | 20,002 |
| | Cliq | TUA | | IWA 3rd Fl. consider | . / | 0728 | 1400 | 3912 | 4 | 4 | 4 | 1963 | 145/100 | 0.006 |
| | 420 | owA | | OWA - Stoircase of 2nd + | | 6720 | 1250 | 330 | 4 | 4 | 4 | 1370 | 1.5/100 | 0.002 |
| | CIZL | H | 610a | EPA exhaust on west Staircage | (범) | 0646 | 1421 | 455 | 2 | 2 | 2 | 910 | 01/100 | 0,004 |
| | C122 | 1 11 | | HEPA exhaust #LECE - 1st FT. | 1 / | 0730 | 1410 | ५७० | 3 | 3 | 3 | 1200 | ·3/100 | |
| | 423 | 1 | 613 | HERA exhausi - Root - NA-09 | 17 | 0635 | 1425 | 470 | 12 | 2 | 2 | अ40 | 0/100 | L0.002 |
| | U24_ | | 1611 7 | 0 | | | | | | | | | | |
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| The state of the s | ne: Pierce Co | | ympic Sout | "" PETER STENSE | que que | | | 5F/- | | Conditio | ns: | | | |
|--|------------------------------------|----------|------------|-----------------------------------|---------------------|----------------------------------|-------------|---------------|----------|-----------------|--------|--------------|------------|-----------|
| Project No. | : 40535.488 | | | SAMPLE MEDIA/ANALYTICAL M | -A00 | | | MIN | | | | | | |
| Location: O | lympic South | Building | 9 | | | | TEMP: | | | | | | | |
| Contractor: | Dickson | | | | | | R.H. | | | | | | | 4 |
| Client: DES | | | | | | | FIELD CO | UNT: | 100 | | | REMARK | · | |
| | SHED BY (SIG | EN.): | | | ANALYZED Wike Sm | BY: | in AL | A | DATE/TI | ME/20) | 2[| KEWAKK | . | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | E: | ANALYZED | BY: | | 1 | DATE/T | ME: | | TWA: | | |
| CODES: | P PERSO IWA INSIDI OWA OUTSI | E AREA |) A E | A AMBIENT AIR | EX | PRE-ABAT EXCURSION CLEARAN | | E | G. 200 3 | GLOVE B HEPA | AG ARE | | | |
| DATE | SAMPLE | CODE | | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | POST | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 07/23/ | NUMBER 21 CLZS | B | | BLANK I | | | / | / | / | | / | / | 0/100 | |
| 1 | 426 | B | | BLANK 2 | | / | / | / | / | / | / | / | 0/100 | |
| | C127 | H | ४व | HEPA exhaust 2nd Fl. iv steircase | 0/100 | 0644 | 1330 | 406 | 2.2 | 2.0 | 2.1 | 8926 | 1/100 | |
| | 1128 | + | HV435 | HEPA-Extranst - ECE | 0/100 | 0648 | 1330 | 402 | 3 | 3 | 3 | | 6/100 | (0.003 |
| | CIZA | OWA | 1696 | OLY No cornidar | 0/100 | 0825 | 1255 | 240 | 7 | 7 | 7 | 1680 | | (0.802 |
| | 6130 | A | 3055 | OLY S. vent-works-rooftop | 0/100 | 0704 | V300 | 364 | 2 | 2 | 2 | 728 | 2/100 | 40.005 |
| - | 431 | 1+ | 97 | HEPA-exhaust-roof-NAOS | 0/100 | 0700 | 1300 | 360 | 2 | 2 | 2 | 720 | 1100 | 20,000 |
| - | U3Z | Tivat | | 10. 10. | 40/100 | 0850 | 1355 | 305 | 4 | 4 | 4 | 1220 | | DADED |
| | 433 | But | 6-4- | Stainwell of 2nd & 3nd Fl. | 0/100 | 0840 | 1350 | 30 | 4 | 4 | 4 | 1240 | 12/100 | 0.005 |
| | | | | | | | | | | | - | | | |
| V | | | | | | | | | | | | | | |
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| Abatemen | me: Pierce Contact and Repair at 40535.488 | | lympic Sou | SAMPLE MEDIA/ANALYTICAL | S (CIN) | | WEATH | ER: | | Conditi | ons: | | | |
|-------------|---|-----------|------------|---|--------------------|----------------------------------|-------------|---------------|----------|-----------------|---------|--------|------------|-----------|
| Location: C | Olympic Sout | h Buildin | g | | | | TEMP: | | | 4 | | | | |
| Contractor | : Dickson | | | - NIOSH 7 | 400 | | R.H. | | | | | | | |
| Client: DES | | | | | | | FIELD CO | OLINIT: | 100 | | | | | |
| 1/1/10 | | 11 | 9/2 | 4/21 | ANALYZED Mike S | m 1721/2 | [Shad | | - | IME: 7/21 | | REMARK | S: | |
| RÉCÉIVED | BY (SIGN.): | | DATE/TIN | 1E: | ANALYZE | BY: | | | DATE/T | IME: | | TWA: | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG ARI | | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | FLOW | AVG | TOTAL | FIB FLD | FIB CC |
| 9/24/21 | C134 | B | | Blak | | / | | / | / | / | / | / | 1/100 | _ |
| | C135 | 3 | | Blak | | | / | / | / | | / | | 0/100 | |
| | C136 | OWA | 8297 | Olympic S. Stors | .5/100 | 6:47 | 12:57 | 370 | 14 | 4 | 4 | 1480 | 1 2 / | 0.004 |
| | 0137 | IWA | 211607 | Olympic S. 3rd floor | 1.5/100 | 6:,55 | 1:08 | 373 | 4 | 4 | 4 | 1492 | OVER | LOADER |
| | C138 | H | HV30A | | 1.5/100 | 7:55 | 1:50 | 355 | 4 | 4 | 14 | 1,420 | | <0.003 |
| | C139 | 4 | 1698 | ROCL exhaust NAUI | 15/100 | 7:55 | 1:50 | 355 | 4 | 4 | 4 | 1,420 | 1/100 | 40.003 |
| | C140 | GWA | 1696 | Olympic S. Comder | 1.5/00 | 8:00 | 1:43 | 343 | 4 | 4 | 4 | 1,372 | 8/100 | 0.003 |
| 4 | C141 | | 3055 | West Starcose 1 | .5/100 | 8:25 | 1:30 | 305 | 2 | 2 | 2 | 610 | 1/100 | 20.005 |
| | | | | | | | | | | | | | | |
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| | me: Pierce C nt and Repair | | lympic So | uth I.H. Peler Stande | 1 | | WEATH | ER: | | Conditi | ons: | - · | ······· | |
|-------------|----------------------------------|-----------|-----------|---|------------------|----------------------------------|-------------|---------------|--------------|-----------------|--------|----------------|-------------------|-----------|
| | .: 40535.488 | | | SAMPLE MEDIA/ANALYTICAL | METHOD: | | 60 | `s | | | | | | |
| Location: (| Olympic Sout | h Buildin | g | | | | TEMP: | | | 1 | | | | |
| Contracto | : Dickson | | | NIOSH 7400 | | | R.H. | | | | | | | |
| Client: DES | | | · | | | | FIELD CO | OLINIT- | 100 | | | | | |
| RELINOUI | SHED BY (SI | GN.): | 9/2 | 27/21 | ANALYZE | D BY: | TIEED CO | JOINT. | DATE/1 | | | REMARI | (S: | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | ANALYZE | BY: | | | DATE/1 | IME: | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | 1 F | GBA H | GLOVÉ I HEPA | BAG AR | TWA: EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | FLOW | AVG | TOTAL VOL | <u>FIB</u> FLD | FIB CC |
| 9/27/21 | C142 | B | | Blank | 1/100 | | | | | / / | 7 | VOL | 1/100 | |
| | C143 | B | | Blank | | | | | | | | | 1/100 | - |
| | <u> ८१५५</u> | H | [140 | Roof HEPA exhaust- | | 0700 | 1350 | 410 | 4 | 4 | 4 | 1640 | 2/100 | <0.002 |
| | C145 | OWA | 1696 | 3rd Fl. corridor OLY N. | | 0693 | 1345 | 462 | 5 | 5 | 5 | Zolò | 4/100 | (0.00) |
| | C146 | owA | 8297 | 2nd/3nd Fl. Staircuse | | 6708 | 1404 | 416 | 5 | 5 | 5 | 2080 | 22/100 | 0.005 |
| | 447 | Н | 089 | 2nd Fl. Staircase - West | | 0643 | 1355 | 406 | 2.3 | 2.2 | 2.25 | 918 | 1/100 | <0.004 |
| | <i>ટાવધ</i> | IWA | 211667 | 3rd Fl. Cornidor of 0328 | | 0800 | 1415 | 375 | 5 | 5 | 5 | 1875 | 26/100 | 0.005 |
| | C149 | Н | HV-30A | Roof HEPA exhaust- | | 0700 | 1350 | 410 | 4 | ч | ч | 1640 | 5/100 | 6.002 |
| | C150 | . H | HV-135 | ECE-1" A. exhaust-S. | | 0640 | 1358 | 402 | 5 | 5 | 5 | 2010 | 2/100 | ا ٥٥. ه |
| 7.2 min. | | | | | | | | | | | | | | |
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| Project Na | me: Pierce C | allege A | lympic Co | rela I | | | | | | | | | | |
|--------------|----------------------------------|-----------|--------------|-----------------------------------|--------------------|----------------------------------|----------|---------------|--|-----------------|--------|--------------|-------------------|-----------|
| | t and Repair | - | iyiripic 30i | "" I.H. PETER STENSL | AND | | WEATHI | ER: | | Condition | ons: | | | |
| Project No | .: 40535.488 | | | SAMPLE MEDIA/ANALYTICAL | | | | | | | | | | |
| Location: (| Olympic Soutl | n Buildin | 9 | NIOSH 7400 | • | | ТЕМР: | | | | | | | |
| Contractor | : Dickson | | | | | | R.H. | | ······································ | | | | | |
| Client: DES | | | | | | | FIELD CC | VUNIT- | 100 | | | | - | |
| | SHED BY (SI | GN.): | 9/28 | 121 | ANALYZED Mike S | | 12/1 | | DATE/I | IME: 9/2 \ | | REMARK | is: | |
| RECEIVED | BY (SIGN.): | · | DATE/TIN | ΛE: | ANALYZE | BY: | | | DATE/I | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANO | N | | GBA H | GLOVE E HEPA | BAG AR | TWA: EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | PRE | FLOW | AVG | TOTAL VOL | <u>FIB</u> FLD | FIB CC |
| 9128171 | £151 | B | | Field Blank | | | | | | | | > | 1/100 | _ |
| | (152 | B | | Field Blank | | | | | | | | > | 0/100 | _ |
| | (153 | C | ì I | Hall near 172 mini enclosu | e ·5/100 | 9:15 | 11:15 | 120 | 10 | 10 | 10 | 1200 | 45/100 | 6.018 |
| | C154 | Н | HV30A | Rocf HEPA exhaust - NAOG | .5/100 | 0632 | 1355 | 443 | 4 | Ч | Ч | 1772 | 1/100 | <0.002 |
| | C155 | Awo | 1696 | OLY No Corridor-student loun | 6.5/100 | 0645 | 1350 | 425 | 5 | 5 | 5 | 21 ZS | 7/100 | |
| | C156 | Н | 1698 | Real HEPA exhaust - NAOS | 15/100 | 0657 | | | 4 | Ч | Y | 1672 | A / | 60.002 |
| | C157 | # | HV135 | ECE HEPA eshaust - #2 | 3/100 | 0700 | 1402 | 422 | 5 | 5 | 5 | | 0/100 | 40.00 |
| | C158 | | 3655 | 2nd floor W steins 2 | 15/100 | 0702 | 1405 | <u>423</u> | 2 | 2 | 2 | 846 | 2/100 | 400.02 |
| \ | C159 | | | 37 H. Comider of 0328 | | 0735 | 1025 | | 4 | 4 | 4 | 680 | 4/100 | 200.00 |
| 1 | C160 | AWD | 8297 | Oly S Bottom of Stain | 13/100 | 0727 | 1347 | 380 | 4 | 4 | 4 | 1520 | 2/100 | <0.003 |
| | | | | | - | | | | | | | | | |
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| | oject Name: Pierce College Olympic So patement and Repairs Dject No.: 40535.488 | | | th I.H. | ter Ste | nsla | 1 | -277.5 | WEATH Rosir | ER: | | Condition | ons: | | | |
|-------------|---|-----------|----------|---------------------------------------|--------------------------|---------|--------------------|---------------------------------|----------------|----------------|----------|-----------------|---------|--------------|-------------------|------------------|
| Project No | .: 40535.488 | | | SAMPLE | MEDIA/ANALY | TICAL N | NETHOD: | | וייטיר | 17 | | | | | | |
| Location: C | Olympic Sout | h Buildin | g | | | | | | TEMP: | 605/5 | CC | | | | | |
| Contractor | . Dickson | | | | TOSH ; | 74 C | \mathcal{C} | | R.H. | ••• | | | | | | |
| Client: DES | | | | | | υ | | | FIELD CO | DUNT: | 100 | | | , | | |
| 1110 | SHED BY (SI | | 9/20 | 1/21 | | | ANALYZED MikeSm | BY: | 1.64 | X | | IME: | | REMARK | S: | |
| RÉCEIVED | BY (SIGN.): | | DATE/TIM | E: | | | ANALYZEC | | | | DATE/T | | | | <u></u> | |
| | P PERSO IWA INSID OWA OUTS | E AREA | | C CLEARAN A AMBIENT B BLANK | | | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG ARI | TWA: | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | | OCATION /ITY / PERSON | | BLANK AVG | TIME ON | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | <u>FIB</u> FLD | <u>FIB</u> CC |
| 9/29/21 | 061 | B | | Blank | | | | | | | | | | | 1/100 | _ |
| | C162 | B | | Blank | | | 1 | | | | | | | | 0/100 | _ |
| | C163 | H | 090 | 2nd flo | or W stoirs | 3 | -5/100 | 2112 | 2:10 | 418 | 3 | 2.6 | 2.8 | 1170 | | <0.004 |
| | C164 | SWA | 1696 | Oly. N | | | .5/00 | 7:20 | 1:50 | 390 | 5 | 5 | 5 | 1950 | 25/ | 0.006 |
| | <u> </u> | H | 1698 | Roof 1 | Exhaust N | AG7 | 05/100 | 2:30 | 1:55 | 390 | 4 | Ч | 4 | 1560 | 2/ | KO-D03 |
| | Class | H | HV301 | | | ROA | .5/100 | 7:30 | 1:55 | 390 | 4 | Ц | 4 | 1560 | | (0.003 |
| | C167 | H | HV-135 | | Exhault 1 | _ | 100 | 7:35 | 2:15 | 400 | 5 | 5 | 5 | 2000 | | 60.001 |
| | C168 | Owa | 8297 | 014.5 | Bollen S | louis | 100 | 7:45 | 2:15 | 390 | 4 | 4 | Ц | 15/00 | 7/10 | 10 003 |
| | C169 | IWA | 211607 | 3rd fle | ior Conside | · v | 7,00 | 7;50 | 2:30 | 400 | 4 | 4 | 4 | 1600 | 16/100 | 0.005 |
| 7 | (170 | AWI | | Room 1 | 8 | | -5/100 | 10:12 | 2:10 | 238 | 5 | 5 | 5 | 1190 | 12.5 | 0.009 |
| | | | - | | ···· | | | | | | | | | | | |
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| _ | me: Pierce C it and Repair | _ | lympic So | uth | PETER STENSIA | W D | | WEATH | | | Condition | ons: | | | |
|-------------|----------------------------------|-----------|-------------|-------------------------------|-----------------------------|---------------------|----------------------------------|-------------|---------------|----------|-----------------|---------|--------------|-------------------|-----------|
| Project No | .: 40535.488 | | | SAMP | LE MEDIA/ANALYTICAL N | METHOD: | | 1 | | | | | | | |
| Location: (| Olympic Sout | h Buildin | g | | NIOSH 7400 |) | | TEMP: | 63°f | +/_ | | | | | |
| Contractor | : Dickson | | | | | | | R.H. | <u> </u> | 7- | | | | | |
| Client: DES | 5 | | | | | | | FIELD CO | NINT- A | 100 | | | | | |
| | SHED BY (SI | - | | | | ANALYZED MIKESMI | BY: | 2/1 | A | DATE/I | IME: | | REMARK | (S: | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | | ANALYZEC | BA: | t | Y | DATE/I | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | Α | C CLEAR A AMBIE B BLANK | NT AIR | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | F | GBA H | GLOVE E HEPA | BAG ARI | TWA: A | | <u></u> |
| DATE | SAMPLE NUMBER | CODE | PUMP | AC | LOCATION TIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | FLOW | AVG | TOTAL VOL | <u>FIB</u> FLD | FIB CC |
| 9/39/2 | C171 | B | | Blank | | | | | | | | | | 2/100 | |
| | 472 | B | | Blank | | | | | | | | | | %100 | _ |
| | C173 | OWA | 1696 | 01,1 | V Corrido | 1/100 | 6:37 | 2:07 | 450 | 5 | 5 | 5 | 3250 | 15/100 | 0.00 |
| | C174 | H | 1698 | Roof | Exhaust NAOI | 1/100 | 6:50 | 2:10 | 440 | 4 | 4 | 4 | 1,760 | 2/100 | 40.002 |
| | C175 | H | HV30A | Roof | Exhaut NAO2 | 1/100 | 6:50 | 2:10 | 440 | 4 | 4 | 4 | 1,760 | 1,00 | <0.002 |
| 11 | C176 | H | CII3 | 2nd A | oon W Steens 4 | 1/100 | 7:15 | 2:17 | 422 | Z | 2 | 2 | 844 | 1/100 | 40.004 |
| 1 | C177 | OWA | 8297 | Oly. S | Bottom of Stain | 1/100 | 7:30 | 1:55 | 385 | 4 | 4 | 4 | 1,540 | | 0.007 |
| \ , | C178 | | HV-10% | Racin | 168 | 1/100 | 7:35 | 2:10 | 395 | 5 | 5 | 5 | 1,975 | 5.5/100 | 10.00 |
| 4 | C179 | IMA | 211607 | 3~J | Ace V Corridor | 1,00 | 7:37 | 1:50 | <i>373</i> | 4 | 4 | 4 | 1492 | 36/100 | 0.011 |
| | | | | | - PARLAN | | | | | | | | | | |
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| Project Na | me: Pierce C | ollege C | Olympic So | outh | | <u> </u> | | · *** | b | | | | | | | |
|---------------|---------------------|-----------|------------|------------------------------|-----------------------------------|------------------------|------------------|---|----------|---------------|----------|-----------------|--------|-------------|------------|-------------|
| | nt and Repai | | | | I.H. PET | ER STEN | SI 842 | | WEATH | | | Conditi | ons: | | | |
| Project No | o.: 40535,488 | | | , | SAMPLE ME | DIA/ANALYTICAL DIOS | METHOD: | | RA: | N | | | | | | |
| Location: (| Olympic Sout | h Buildir | ng | | | N102 | 4 740 | 00 | TEMP: | 60+ | 7- f | | | | | |
| Contracto | r: Dickson | | | | | | | | R.H. | <u> </u> | , – 1 | | | | | |
| Client: DES | 5 | | ····· | | | • | | | FIELD CO | SUNT. | 100 | | | | | |
| RELINQUI | SHED BY (SI | GN.): | | | | · | ANALYZE | D BY: | 101 D | / / | DATE/1 | <u> </u> | | REMAR | ⟨S: | |
| RECEIVED | BY (SIGN.): | | DATE/TII | ME: | | | MIKE SM | <u>чтн</u>) //// DB y : | to to | | DATE/I | IME: | | | | |
| CODES: | P PERSO | TATAC | <u> </u> | | CIPADANCE | | | l | | | , | | | TWA: | | |
| CODIS. | IWA INSID | E AREA | Ą | Α Α | CLEARANCE AMBIENT AIR BLANK | | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | | | ATION / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | DDF | FLOW | | TOTAL | <u>FIB</u> | FIB |
| 10/1/21 | C180 | B | | ß | lank | 7 / EXOCIT | AVG | ON | UFF | TIVE | PRE | POST | AVG | VOL | FLD | СС |
| / | (181 | B | | | lunk | | | | | | | | | | 0/100 | |
| | | OWA | 1690 | Ok | A . | Carrida | 0/100 | 6:38 | 1:38 | 420 | 4 | 4 | 4 | 1,680 | 3/100 | /- 020 |
| / | C183 | H | HV30A | | A | cust NAO4 | %00 | 6:45 | 1:45 | 420 | 4 | 4 | 4 | | 0/ | 10.002 |
| / | C184 | H | 1698 | Ra | | 1 . | %100 | 6:45 | 1:45 | 420 | 4 | 4 | 4 | | 1100 | 40.002 |
| | C185 | 11 | HV-135 | | CE EXP | | 0/100 | 6:53 | 1,51 | 418 | 4 | 4 | 4 | 1680 | 1100 | 40.002 |
| | C186 | OWH | · | Ol. | 5 Bold | νσ | %100 | 6:58 | 1:56 | 418 | 4 | 4 | 4 | 1,672 | | 0.002 |
| Д | C187 | IWA | 211607 | 30 |) Floor | N. Corridor | 0/100 | 7:05 | 2:05 | | 4 | 4 | 4 | 1,680 | ママノ | 0.01 |
| \ | <u> </u> | 1 | HUIOC | | com 1 | 68 Oly, 5 | 0/100 | 8:00 | 2:10 | 370 | 5 | 5 | \$ | 1850 | | 40.002 |
| <u> </u> | C189 | <u> </u> | 090 | $\left \frac{2}{2} \right $ | Floor | N Stevers 1 | 0/100 | 8:00 | 1:48 | 348 | 2.8 | Z.C | 27 | 940 | | <0.004 |
| | | | | | | | | | | | | | | | | |
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PBS Engineering and Environmental Inc. 714 F GALER STREPT, SHITE 300 SEATTLE, WA 08102 206.233.939

| Abateme | ame: Pierce nt and Repa | irs | Olympic S | I.H. PETER | STENS N | | | WEAT | HER: | · | Condi | tions: | | | |
|-------------|----------------------------|-----------|-------------|-----------------------------------|------------|--------------|----------------------|-----------------|---------------------------------------|--|---------------|--------------|-------------|-------------|----------------|
| | o.: 40535.488 | | | SAMPLE MEDIA | ANALYTICAL | METHOD: | | PART | النز ع | pro | | | | | |
| Location: | Olympic Sou | th Buildi | ng | MEOIN | 7400 | | | TENAD | | | 4 | | | | |
| Contracto | r: Dickson | | | | | | | | 60 4 | <u>- </u> | - | | | | |
| Client: DES | . | | | | | | | R.H. | <u> </u> | | 4 | | | | |
| RELINQUI | SHED BY (S | IGN.): | | | | ANALYZE | D RY | FIELD C | OUNT: | 100 | | | | | |
| RECEIVED | BY (SIGN.): | | DATE/TII | VIE: | | Mike Smir | 12 /M/12 | | X | DATE/ 10/5 | /21 | | REMAR | KS: | |
| CODES: | P PERSO | IANC | <u></u> | | | ANALYZEI | | | 1 | DATE/ | TIME: | | Ī | | |
| | IWA INSIC OWA OUTS | E AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | | PRE EX | PRE-ABA EXCURSION | NC | · · · · · · · · · · · · · · · · · · · | GBA H | GLOVE HEPA | BAG AR | TWA: REA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATIO | | TEM BLANK | CLEARAN TIME | CE SAMP TIME | TOTAL | <u> </u> | FLOW | | TOTAL | FIR | T |
| 0/4/21 | C190 | В | _ | ACTIVITY / PE FIELD BLANK | | AVG | ON | OFF | TIME | PRE | POST | AVG | _ | FIB FLD | FIB CC |
| | C191 | B | | FIELD BLAN | | | | | | | | | > | 1/100 | |
| _/_ | 0192 | 14 | 1698 | ROOF HEPA EXH | | 5.5/100 | | | | | | | 2_ | 0/100 | |
| | C193 | Н | | | | | <u>6707</u> | | 420 | 4 | 4/ | 4 | 1680 | 0/100 | 40.002 |
| | – | | 149/A | ROOF HEPA EXH | AUST NAOY | 100 | 0709 | | 418 | 4 | 4 | 4 | 1672 | 100 | (0.002 |
| | C195 | 1-1 | HV12C | OLYMPIC N. COR | RIDAR | 5/00 | 0702 | | 420 | 4 | 4 | 4 | 1680 | | KO.002 |
| | | | 8247 | ECE HEPAEK OLYMPIC S. BOT | Tage STUD | 5/100 | | 1354 | 401 | 4 | 4 | 4 | 1664 | 100 | 40.003 |
| | C197 | TWA | 211607 | organic s. 3" | de, N | .5/20 | 0725 0732 | | | 4 | 4 | 4 | 1532 | 2/100 | 60.003 |
| -\/- | 0198 | IWA | 106 | olympic S. R | n 168 | | | | 225 | | 4 | 4 | 900 | /.00 | -013 |
| - | 0199 | | | ory. Stairs He | | .57 | <u>0735</u> 0750 | 1357 | | 5 | 5 | 5 | 14-75 | 8/100 | |
| | | | | | | | | · 33 T | JOT | 2.9 | 2.6 | 2-45 | 1009 | 100 | <u> 10-004</u> |
| | | | | | | | | | | | | | | | |
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| | ect Name: Pierce College Olympic Sol tement and Repairs | | uth I.H. P | eter S | Fersland | | | WEATH | | | Condition | ons: | | | | |
|-------------|--|-----------|------------|---------------------|----------|--------------|----------------|----------------------|-------------|---------------|---------------------------------------|--------------|--------|--------------|-------------------|-----------|
| | .: 40535.488 | | | | | ANALYTICAL I | METHOD: | | RAIN | / | | | | | | |
| Location: C | Olympic Sout | h Buildin | g | | _ • | 1 74 | _ | | TFMP- | 5015 | | | | | | |
| Contractor | : Dickson | | | <i>[\\</i>] | 05 | 1 740 | \mathfrak{D} | | R.H. | 305 | · · · · · · · · · · · · · · · · · · · | | | | | |
| Client: DES | | | | | | | | : | - | | | | | | | |
| | SHED BY (SI | GN.): | 10/5, | 121 | | | ANALYZED | | FIELD CO | A A | 100 DATE/T | IME: | | REMARK | is: | <u> </u> |
| RÉCEIVED | BÝ (SIGN.): | | DATE/TIN | /IE: | | | ANALYZED | | | 421 | DATE/I | ME: | | | | |
| CODES: | P PERSC | NAL | | C CLEARA | NCE | | PRE | PRE-ABAT | FMENT | | GBA | GLOVE B | AC ADI | TWA: | | |
| | IWA INSID OWA OUTS | | ١ | A AMBIEN B BLANK | | | EX TEM | EXCURSIO CLEARANG | N | LE | Н | HEPA | AU AN | | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | | LOCATIO | | BLANK AVG | TIME ON | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | <u>FIB</u> FLD | FIB CC |
| 10/5/21 | C200 | B | | Blank | | | _ | | | | | | | | 0/100 | |
| | C201 | B | | Blook | | | | | | | | | | | 0/100 | |
| | <u></u> | H | 089 | W Sta | rs E | shoust 2 | 9/100 | 6:48 | 2:12 | 444 | 2.2 | 2.2 | 2.2 | 977 | | K0.004 |
| | C203 | OWA | 1696 | Olympia | | Corridor | 1/100 | 6:57 | 1:53 | 416 | 4 | 4 | 4 | 1664 | 10/100 | 0.003 |
| | C204 | H | HV 354 | | Exhaust | - NAOC | 0/100 | 7:05 | 2.00 | 415 | 4 | 4 | 4 | 1460 | 4/100 | 3 - 203 |
| | <u> 205</u> | J.) | 1698 | Root | Exhaus | - NAO7 | 9/100 | 7:05 | 2:06 | 415 | 4 | 4 | 4 | 1660 | 2/100 | ⟨0.∞3 |
| | C 206 | H | 41135 | ECE | Exhaus |) Ž | 0/100 | 7:13 | 2:16 | 417 | 4 | 4 | 4 | 1668 | | <0.003 |
| | <u>207 پ</u> | OWA | 8297 | Cly. S | Ball | con Slairs | 0/100 | 7:25 | 1:50 | 385 | Ĥ | 4 | 4 | 1,540 | 10.51 | (0.003 |
| | <u>CZ08</u> | | | | Bas | 03 68 | 0/100 | 7:30 | 2:15 | 405 | 5 | 5 | Š | 2025 | | 0.004 |
| | C209 | | 211607 | <u> </u> | 3 rd [| Floor N | 0/100 | 7:31 | 11:20 | 229 | 4 | 4 | 4 | 916 | | OADED |
| 1 | C210 | IWA | 8504 | 014 5 | 2nd | Floor Ear | %00 | 9:06 | 1:20 | 260 | 4 | 4 | 4 | 1,040 | 9/100 | 0.004 |
| · | | | | / | | , | | | | | | | | | L | |
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PBS Engineering and Environmental Inc. 714 F GALER STREET, SINTE BOX SEATTLE, WA 08102 206 233,939

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| Project N | lame: Pierce (| College | Olympic Sc | outh | u 0.1 | <u></u> | | | WEATH | LIED. | | TC 124 | | | | |
|---------------|-----------------------------|------------|------------|------|-----------------------|---------------|--------------|--|----------|----------|---------------|---------|--|------------|-------------|--------------|
| | ent and Repailo.: 40535.488 | | | - | "PCKE | Stendare | | | 1 | | | Condit | ions: | | | |
| | | | | | MINE MEDI | IA/ANALYTICAL | METHOD: | | Ro | رہ | | | | | | |
| | Olympic Sout | th Buildir | ng | | AFT CI | 7400 | | | TEMP: | 50'5 | | 1 | | | | |
| Contracto | or: Dickson | | | | NTO 7A | 1 /400 | | | R.H. | | | 1 | | | | |
| Client: DE | | | | | | | | | | ~ () | | 1 | | | | |
| RELINQU | ISHED BY (SI | | 10 | 1// | 7.1 | | AŅALYZEI | D BY: | FIELD CO | OUNT: | 100 DATE/1 | | | Inc. AAD | | |
| | D BY (SIGN.): | | DATE/TIN | | | | _MIKE S | mas /a/ | 14.7 | (hux | 10/ | 8/21 | | REMAR | KS: | |
| CODES: | P PERSO | | | | | | ANALYZEI | D BAY . (| | • • | DATE/1 | | ······································ | <u> </u> | | |
| CODES. | IWA INSID | DE AREA | | | EARANCE ABIENT AIR | | PRE | PRE-ABAT | | | GBA | GLOVE I | BAG AR | TWA: EA | | |
| | OWA OUTS | IDE ARE/ | A | | ANK | | EX TEM | EXCURSIC CLEARAN | | ,re | Н | HEPA | | | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | | LOCATI | | BLANK | TIME | TIME | TOTAL | T | FLOW | | TOTAL | FIB | T |
| 0/6/21 | | B | | | ACTIVITY / I | PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | FIB CC |
| 1 | CZ12 | B | | Bla | | | +=- | | | | | | | | 1/100 | - |
| / | CZ13 | H | 089 | Bla | _ | _1 | | <u> </u> | | / | | | | | 0/100 | _ |
| | | | 1. | Oly. | S W | Steirs H3 | | 6:41 | 1:35 | 414 | 2 | 1.8 | 1.9 | 787 | 1/100 | 40.005 |
| | C214 | OM | 1696 | Oly | | mida | 100 | 6:47 | 1:40 | 413 | 4 | 4 | 4 | | 5/ | |
| | CZ15 | | 14/304 | | | L NAO1 | 5/100 | 6:55 | 1146 | 410 | y | 4 | 11 | 1652 | | K0.003 |
| | CZ16 | H | 1698 | Rast | | | .5/100 | 6:55 | | 1 | 4 | 4 | 7 | 1640 | | (0.003 |
| | C217 | Н | W-135 | ECE | Exhau | wst 1 | 5/100 | 7:01 | | 410 | 4 | 4 | 7 | 1640 | 1.5/ | <0.003 |
| | | OWA | 8297 | ٥l | SP | Ethen Stever | 5/100 | 7:0> | | | 4 | 4 | 4 | 1776 | 7100 | 0.002 |
| -- | | Ib/ | 8504 | Oly | <i>C</i> 11 ft | near 264 | 5/00 | 7:39 | | 365 | 4 | 4 | 7 | 1720 | 100 | <0.002 |
| 4 | C220 | Tw/ | 21/607 | Oly. | 5. 3rd | FlorNHI | | 8:03 | | 200 | 7 | 4 | 4 | i i | ERLEA - | |
| | | | | 7 | | | | | -11 | <u> </u> | 7 | - | | 1120 | P/100 | <0.004 |
| | | | | | | | | | | | | | | | | |
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PBS Engineering and Environmental Inc. 214 E GAIER STREET, SUITE BID SEATTLE, WA DBID 206.233.939

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| Project Name: Pierce College Olympic South Abatement and Repairs Project No.: 40535.488 | | | | th I.H. PETER STENSIAN | JD | | weathe Par | R: TLY CLOUD | ы | Conditio | ns: | | | |
|---|------------------------------------|-----------------------------|----------|---|---------------------|---------------------------------|---------------|----------------------|----------|-----------------|-----|--------------|-------------------|----------------|
| Project No. | : 40535.488 | | | SAMPLE MEDIA/ANALYTICAL M | METHOD: | | | ور ٥٥٠٠ | (| | | | | |
| Location: C | lympic South | Building |] | | | | TEMP: 5 | 50 ⁷ 5- 6 | 6 | | | | | |
| Contractor | : Dickson | | | | | | R.H. | | | | | | | |
| Client: DES | | | | | | | FIELD CO | UNT: | 100 | | | | | |
| RELINQUI | SHED BY (SIC | 5N.): | | | ANALYZED MIKE SM | BY: | Sholo | 1 | DATE/1 | IME: | | REMARK | S: | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | E: | ANALYZED | BY: | , , | | DATE/1 | IME: | | TWA: | | |
| CODES: | P PERSO IWA INSIDI OWA OUTSI | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | E | GBA H | GLOVE B HEPA | | | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME ON | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | <u>FIB</u> FLD | FIB CC |
| 10/7/21 | C221 | B | | FIELD BLANK | | | | | | | | 7 | 0/100 | |
| | C222 | B | 1 | FIELD BLANK | - | | | | | | | -> | 9/100 | |
| | c223 | TWA | 8901 | 04.5. 2 H FL NEAR 264 | 0/100 | 063q | 1315 | 396 | 14 | 4 | 4 | 1584 | 7/100 | <0.00 <u>3</u> |
| | C224 | Н | HV135 | 1 of FL ECE, EXHAUST 2 | 0/100 | 0650 | 1400 | 430 | 5 | 5 | 5 | 2150 | 2/100 | 100.00 |
| | C225 | Н | 6113 | OLYS - 2 MEL W STAIR | 0/100 | 0657 | 1505 | _ | 2 | 2 | 2 | 946 | 2/100 | (0.004 |
| | C2260 | AWO | | OH N CORRIDOR | 0/100 | 0765 | 1400 | 415 | 4 | 4 | 4 | 1660 | | 40.003 |
| | C 227 | 14 | | ROOF EXHAUSTNA-02 | 0/100 | 0717 | 1405 | 408 | 4 | 4_ | 4 | 1632 | 0/100 | <u> </u> |
| | C228 | $\mathcal{H}_{\mathcal{L}}$ | 1698 | ROOF EXHAUST NA-0 | 1 - / | 0715 | 1405 | 410 | 4 | 4_ | 4 | | 2/100 | LO-00 |
| | 0229 | AWO | 8297 | OLY S. BOTTOM OF STANDA | 100 | 0725 | | 385 | 5 | 5 | 5 | T | | 20.00 |
| | C230 | IWA | 211607 | OLY. S., NORTH CORRIDO | P %100 | 0740 | 1230 | 290 | 5 | 5 | 5 | 1450 | OVER | LOADED |
| | (223A | C | 13 | 2 nd fl, NE CORR. CIERN | Rm Va | 0637 | 0837 | 120 | 10 | 10 | 10 | 1200 | 1/100 | KO.003 |
| | | | | | ' | | <u> </u> | | | | | | | |
| | | | | | | | | | | | | | | |
| 2001 | 4.30.7 | # 2 | 126 | 5/:00 | | | 1 | | | | | | | |



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| Project Na | ame: Pierce Co | ollege O | lympic Sout | th Abatement and Repairs | | | WEATH | IER/TEMP | • | Comme | ents: | | | |
|-------------|-----------------------------------|----------|-------------|-----------------------------------|------------------|----------------------------------|--|----------|----------|-----------------|--------|-------|-------|--------|
| Project No | o.: 40535.488 | | | I.H. PETER STE | TEAD PE | | 50 | S | | | | | | |
| Location: 1 | Lakewood, W | Ά | | SAMPLE MEDIA/ANALYTICA | AL METHOD | <u> </u> | | A: N | | | | | | |
| Contractor | r: Dickson | | | N105H 7400 | | | | | | | | | | |
| Client: DES | S | | | | | | | | | | | | | |
| | ISHED BY (SI | GN.): | DATE/TIM | TE: | ANALYZEI | D BY: | 111 | WA | DATE/1 | TIME: /13/2 | 71 | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | IE: | ANALYZE | D BY: / | The state of the s | | DATE/1 | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTSI | DE AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANG | NC | PLE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | DATE SAMPLE CODE PUMP | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 198/21 | | 2 | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 190 | C232 | B | | FIGUR BLANK - | | | | | | , | | > | 1100 | |
| 1 | c132 | H | 089 | FIELD BLANK | 11 | 150 | | 1 | | | | - | 1/100 | |
| | | | | 045. W. STAIRS HI | | 0650 | | | 2.4 | 2.2 | 2-1 | 905 | | |
| | C234 | OWA | | | 1/100 | 1 | | | 4 | 4 | 4 | 1720 | 2/100 | 40.002 |
| | C 235 | 17 | HV139 | 15T FL ECE HI | 100 | | | 417 | 4 | 4 | 4 | 1668 | 1100 | 40.002 |
| + | C 236 | H | | ROOF NAOS | 1/100 | | | 425 | 4 | 4 | 4 | 1700 | 4/100 | 40.002 |
| | C237 | | HV30A | | /100 | 0703 | 1408 | 425 | 4 | 4 | 4 | 1700 | 1/100 | 40.002 |
| | c 238 | | | OLY 5 - STAIRWAY | 1100 | 0715 | 1355 | 400 | 4 | 4 | 4 | 1600 | 6/100 | (0.003 |
| | C239 | | | | 1/100 | 0728 | 1136 | 248 | 4 | 4 | 4 | 992 | / | 0.007 |
| - | C240 | IWA | 8901 | ory 5. 2 4 FL By 264 | 1100 | 0752 | 1340 | 348 | 4 | 4 | 4 | 1392 | Tr. I | 0.005 |
| W | c241 | | LV19-9 | 2 Md fl HI 1 N 283 | 1/100 | 0810 | 1345 | 335 | 4 | 4 | 4 | 1340 | 1 | 40.003 |
| 1 | C242 | 1-1 | 56 | 2 1 FL HI 100 284 | 1/100 | | | | 4 | 4 | 4 | 1204 | , | (0.004 |
| | | | | | Ş | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Recount Sa | ample # | 241 | Recount | 0/100 | | | | | | | | | | |



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| Project Na | ime: Pierce Co | llege Ol | ympic South | h Abatement and Repairs | | | WEATH | IER/TEMP |): | Comme | ents: | | | |
|-------------|----------------------|-------------------|-------------|---|------------------|----------------------------------|-------|----------|----------|-----------------|--------|-------|---------|--------|
| Project No | o.: 40535.488 | | | I.H. PETER STENSLA | 1a2D | | 50 5 | 5-60 | | | | | | |
| Location: I | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICA | AL METHOD |): | P. | Sunnu | 1 | | | | | |
| Contractor | r. Dickson | | | PIOSH 7401 | 0 | | | | | | | | | |
| Client: DES | S | | | | | | | | | | | | | |
| RELINQUI | ISHED BY (SIG | GN.): | DATE/TIM | E: | ANALYZE | D BY: | 11/1 | Ad. | DATE/1 | | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | IE: | ANALYZE | | | VIO V | DATE/1 | | | 1 | | |
| CODES: | DATE NUMBER CODE PUR | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANG | N | `LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| .011 | | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 10/11/21 | C243 | B | - | FIELD BLANK | | | | | | | | | 100 | |
| | C244 | B | - | FIELD BLANK | - | | | | | | | -> | 0/100 | |
| | C245 | 14 | 3055 | OLYS - W. STAIRS H2 | .5/100 | 0629 | 1424 | 475 | 2-1 | 2.1 | 2.1 | 998 | - | <0.004 |
| | | OWA | 1696 | OLYS. N. CORRIDOR | .5/100 | 0630 | 1430 | 480 | 4 | 4 | L | 1920 | . // | (0.002 |
| | C247 | H | HV30A | ROOF NAO4 | .5/100 | 0635 | 1433 | 478 | 4 | 4 | 4 | 1912 | 11/100 | |
| | C248 | 1+ | 1698 | ROOF NA 05 | .5/100 | | | | 4 | 4 | 4 | 1912 | 1.51 | (D.002 |
| | 0249 | H | Hv 135 | ECE HI | .5/100 | 0642 | 1422 | | 4 | 4 | 4 | 1840 | | 60.002 |
| | C250 | owA | 8297 0 | 045 - 2 10AD-00TE Bri | D9E -5/00 | 0657 | 14/7 | | 4 | 4 | 4 | 1760 | 7.5/100 | 0.002 |
| | c251 | IWA | 211607 | olys , 3 df Le 331 | -3/100 | | 1013 | 1 | 4 | 4 | 4 | | | ADED |
| | C252 | | | ory s., 2 nd fr By 264 | .5/100 | | | | 14 | 4 | 4 | 1500 | | Kn.003 |
| 4 | c253 | H | | ONS, 2 1 1 283 H2 | -5/100 | | | 432 | 4 | 4 | 4 | 1728 | -// | (0.002 |
| 4 | C254 | owA | | ouy 5., @ 284 mini- BUBB | 0/1 | 0835 | - | 1 | 5 | 5 | 5 | 1625 | 3.5/00 | (0.003 |
| | | | | | | | | | | | | | , | |
| | | \longrightarrow | | | | | | | | | | | | |
| Posount S | ample# | c250 | Recount | e/ 100 | | | | | | | | | | |



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| Project Na | roject Name: Pierce College Olympic South Abatement and Repairs | | | | | | WEATH | ER/TEMP | : | Comme | ents: | | | |
|-------------|--|--------|----------|---|---------------------|----------------------------------|--------------|---------|----------|-----------------|--------|-------|---------|--------|
| Project No | o.: 40535.488 | | | I.H. PETER STENDL | ALID | | 50 | 5 | | | | | | |
| Location: l | _akewood, W | A | | SAMPLE MEDIA/ANALYTICA | AL METHOD |): | PAG | LOUDY | | | | | | |
| Contracto | r: Dickson | | | | | | C | Loudy | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | 1E: | ANALYZEI Wike Sr | | 108 | MI | DATE | TIME: | , | TWA: | | |
| RECEIVED | CEIVED BY (SIGN.): DATE/TIN DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUMP C 256 B C 257 H C 258 WA 1696 C 259 H C 260 H HV36A | | | 1E: | ANALYZE | | and the same | 311 | DATE/ | | | | | |
| CODES: | iect No.: 40535.488 ation: Lakewood, WA atractor: Dickson Int: DES INQUISHED BY (SIGN.): DATE/T DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA ATE SAMPLE RUMBER C 257 H 097 C 258 OWA 1696 C 259 H 1698 C 260 H HV35 C 261 W HV35 C 262 OWA 8297 C 264 TWA 8504 | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANG | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | ation: Lakewood, WA Intractor: Dickson Int: DES INQUISHED BY (SIGN.): DATE CEIVED BY (SIGN.): DATE DATE DATE DATE DATE CODE NUMBER CODE NUMBER CODE | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 10/11 | | R | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 12/2 | | - | _ | FIELD BLANK | | | | | | | | > | 9/100 | |
| -/- | | | .07 | FIELD BLANK | - | | | | | | | > | 0/100 | |
| | | | | OLY S. W STAIR, H3 | | 0632 | | | 2 | 2 | 2 | 948 | 1/100 | 40.004 |
| | | OWA | | OLYS. N CORRIDOR | 0/100 | 0651 | 1349 | | 4 | 4 | 4 | 1672 | 12.5/00 | 0.004 |
| | | H | | ROOF NAOLO | 1100 | 1050 | 1353 | 412 | 4 | 4 | 4 | 1648 | 1/100 | (0.003 |
| _ | | - 1000 | HV36A | ROOF, NAO7 | 1/100 | 0701 | 1353 | 412 | 4 | 4 | 4 | 1648 | %00 | (0.003 |
| - | C261 | H | HV135 | ECE, H2 | 9/100 | 0708 | 1425 | 437 | 4 | 4 | 4 | 1748 | 0/ | 40.002 |
| | | OWA | 8297 | ory 5. 2 th load OUT - Br | idge %a | 6717 | 1437 | 440 | 4 | 4 | 4 | 1760 | 9/100 | 0.003 |
| | | | | OLYS., 3 FL @ 331 | 0/100 | 0723 | 1010 | 113 | 4 | 4 | 4 | | 6/100 | 0.007 |
| 1/1 | C264 | IWA | 8504 | 1 | 0/100 | 0869 | 1027 | 138 | 4 | 4 | 4 | 552 | 4/100 | 40.005 |
| | c 265 | C | HV19-9 | OLY 5., 15 FL CIPAN IM. E | KTEN. % CO | 1202 | 1342 | 100 | 12 | 12 | 12 | 1200 | 110/ | 0.007 |
| | | | | | | | | | | | | | | |
| | | | | - | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Recount Sa | mple # | 259 | Recount | 100 | | | | | | | | | | |



214 E GALER STREET, SUITE 300 SEATTLE, WA 98102 206.233.939

pbsusa.com

| Project Na | Project Name: Pierce College Olympic South Abatement and Repairs | | | | | | WEATH | ER/TEMP | : | Comme | nts: | - | | |
|--|--|--|---|---|----------------------------------|--------|----------|------------|-----------------|---------|----------|-------|-------------|---------------|
| Project No | .: 40535.488 | | | I.H. PETER STENSI | LANP | ··· | 4 | R 50' | S | PAR | tly Lovi |)×1 | | |
| Location: l | akewood, W | A | | SAMPLE MEDIA/ANALYTIC | CAL METHOD | • | | | | | | , | | |
| Contractor | : Dickson | | | Nosk | 1 70 - | | | | | | | | | |
| Client: DES | 3 | | | | | | | , | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | /E: | ANALYZEI | DBY: | 7 DL | (X | DATE/ | TIME: | | TWA: | <u> </u> | |
| RECEIVED | IWA INSIDE AREA A OWA OUTSIDE AREA B | | 1E: | ANALYZE | D BY: | See C. | 1° V | DATE/ | | | | | | |
| CODES: | SAMPLE NUMBER N | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG ARI | EA | | | |
| DATE | | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| la fra far | | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 10/13/21 | , | | | Field BLANK 1 | | | | | | | | | 9/100 | |
| | 1 | | 0000 | Field BLANK Z | @ / | | | | | | ., | | 0/100 | |
| | | | | Comider of 2003/284 | | 0730 | 1020 | 170 | 4 | 4 | 4 | 690 | T / . / - ' | KO.005 |
| | 1 | | 1 | No Coridor 3rd A. | 0/100 | 8658 | H22 | 444 | 4: | 4 | 4_ | 1776 | 14/100 | 0.004 |
| | | | | | | 0749 | 1030 | 162 | 4 | 4_ | 4 | 648 | 1/100 | 0.02 |
| | f ^{***} | | | ECE, HEDL exhaust # | | | 1411 | <u>420</u> | 4 | 4 | 4 | 1680 | 3/100 | 40.003 |
| | | | | 2rd Fl. loudgut@styl | 7.00 | 0723 | 1406 | 398 | Ч | 4 | 4 | 1597 | 7.5/100 | <6.003 |
| | | | HU30A | HEDA extress - Rock- NA | 408 0/100 | 0705 | 1425 | ५५० | 4 | 4 | 4 | 1760 | 100 | Ko.∞3 |
| | | H | 1698 | HEPA exhaust- Roof- NA | | 5705 | 1425 | 440 | 4 | 4 | 4 | 1760 | 2/100 | <u>Ko.003</u> |
| - | C275 | !! | 089 | HEPA exhaust - Wo exterio Staircase #4 | · %i00 | 0645 | 1413 | 444 | 2.4 | 2,3 | 2.35 | 1053 | 2/100 | <0.004 |
| d i | | | | | | | | | | | | _ | | |
| V | | | | | | | | | | | | | | |
| : | | | | | | - | | | | | ļ | | | |
| Recount Sa | l ample # | | Recount | | | | | | | | | | | |



214 E GALER STREET, SUITE 300 SEATTLE, WA 98102 206.233.939

pbsusa.com

| Project Name: Pierce College Olympic South Abate | | | | th Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|--|--|--|---|-----------------------------------|---------------------|-----------------------|-------|--|----------|-----------------|--------|--------|--------|--------|
| Project No | .: 40535.488 | | | I.H. PETER STENE | C care | | 50 € | | | | | | | |
| Location: L | akewood, W | Д | | SAMPLE MEDIA/ANALYTICA | L METHOD | | 77 | Rain | | | | | | |
| Contractor | : Dickson | · | | NIOSH | + '74a | 9 | | | | | | | | |
| Client: DES | ; | ······································ | | | | | | , | | | | | | |
| <u> </u> | | GN.): | DATE/TIN | ΛE: | ANALYZEI | | 1º1 A | 11 | DATE/ | | | TWA: | · | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | MIKE SO ANALYZEI | | ムリン | The A | DATE/ | | | | | |
| CODES: | IWA INSID | E AREA | λ | C CLEARANCE A AMBIENT AIR B 8LANK | PRE EX TEM | PRE-ABAT EXCURSION | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | Dject No.: 40535.488 cation: Lakewood, WA Intractor: Dickson ent: DES CEIVED BY (SIGN.): DATE/TI CEIVED BY (SIGN.): DATE/TI CEIVED BY (SIGN.): DATE/TI CEIVED BY (SIGN.): DATE/TI DA | | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | ₽ſB |
| 4 - 6 - 6 - 6 - 6 | Attractor: Dickson Antractor: Dickson DATE/TI DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA C276 B C277 C277 C277 C278 C279 C | | | | | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 1914/2 | | | | | | | | | | | | | 9/160 | |
| | | | | Field blank | | | | | | | - | | 0/100 | |
| | C278 | | C CLEARANCE PRE A AMBIENT AIR EX B SLANK TEM PUMP LOCATION ACTIVITY / PERSON AVG Field blank — HU-135 HEDA exhaust - ECE - # 2 1/100 O90 HEDA exhaust - W. ext. striverse 1/100 O97 HEDA exhaust - W. ext. striverse 1/100 O97 HEDA exhaust - 0284 - # 4 1/100 O97 HEDA exhaust - 0283 - # 2 1/100 S297 2nd H. Locaelout - skybridge 1/100 S297 2nd H. Locaelout - skybridge 1/100 30A HEDA exhaust - Roof - Nto3 1/100 | | 8700 | 1340 | 400 | 4 | 4 | 4 | 1600 | 1/100 | 20003 | |
| | C279 | # | 090 | HEDA exhaust - W. ext. Show | ose %100 | 0640 | (330) | 340 400 4 4 4 160 330 40 2 2 2 82 330 335 2 2 67 | | 820 | 0/100 | <0.005 | | |
| | C250 | H | 097 | HEPA exhaust - 0284 - #4 | %00 | 0755 | 1330 | 335 | 2 | 2 | 2 | 670 | 1/100 | (0.005 |
| | C281 | IWA | 8504 | Carridor of 293/284 | %00 | 0818 | 1300 | 282 | 4 | 4 | 4 | 1123 | 32/100 | 0.014 |
| | C252 | - | 3055 | | 0/100 | 0820 | 1300 | 280 | 2 | 2 | 2 | 560 | 9/100 | Ko.005 |
| | C253 | OWA | 8297 | 2nd H. Loadout-Slaphild | e %00 | 0705 | 1417 | 432 | 4 | 4 | 4 | 1728 | 7/100 | 0.002 |
| | C284 | H | 30A | HEPA exhaust - Roof - N403 | 9/100 | 0653 | 1425 | 1452 | 4 | 4 | 4 | 1505 | 1/100 | KO.002 |
| | 1285 | H | 1698 | HEPA exhaust -Poof-N40 | 2 %100 | 0653 | 1425 | 452 | 4 | 4 | Ù | 1808 | %00 | KO.002 |
| | (286 | OWA | 1696 | OLY No comder | 9/100 | 0647 | 1422 | | 4 | 4 | 4 | 1820 | 2.5/00 | 40-002 |
| | C287 | IWA | 211607 | oly 5.3°dfl@ 331 | 0/100 | 07/3 | 1616 | 183 | 4 | 4 | 4 | 73之 | 1/100 | 1 |
| | | | | | | | | | i | / | 1 | | 7 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Recount Sample # Recount | | | | | | | | | | | | | | |



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| Project Na | roject Name: Pierce College Olympic South Abatement and Repairs | | | | | | 1 | IER/TEMP | ': | Comme | ents: | | | |
|-------------|---|-------------|----------|---|--------------------|----------------------------------|---------------|-------------|------------|-----------------|--------------|------------------|--------|------------------|
| Project No | o.: 40535.488 | | | I.H. TOAN NGUY | EN | | 50 | `క | | | | | | |
| Location: | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICA | |): | Par- | | | | | | | |
| Contracto | r. Dickson | | | NIOSH 7400 | | | CL | ouby | | | | | | |
| Client: DE: | 5 | | | | | | | 1 | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TIN | ME: | ANALYZEI MIKOCS | | 1/1/ | V | DATE/ | IME: | ··· | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | νiE: | ANALYZEI | | * (×) | 400 | DATE/ | | <u></u> | | | |
| CODES: | roject No.: 40535.488 cocation: Lakewood, WA contractor: Dickson lient: DES ELINQUISHED BY (SIGN.): D. ECEIVED BY (SIGN.): D. ODES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA LAGO OWA 8 CAGA H CAGA TWA 8 | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | ·LE | GBA H | GLOVE I HEPA | BAG AR | ĒA | | |
| DATE | | CODE | РИМР | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 10/- | | R | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| //3 | | | - | FIELD BLANK | | - | | | | | | > | 0/100 | |
| | | T 1 | 27/17 | FIELD BLANK | | <u> </u> | | | | | | -> | 1100 | |
| 100 | T | | 8297 | 2nd A. Load-out-Skylaide | // ···· | 6722 | 1418 | 416 | 4 | Ų | 4 | 1664 | | 60.003 |
| | | | 090 | 27 Fl. exterior stair - Wes | .3/100 | 0638 | 1355 | 403 | 2 | 2 | 2 | 406 | 1,00 | <0.005 |
| | (292 | _ | 211607 | | 100 | 0736 | 1020 | 164 | 4 | 4 | 4 | 656 | 6/100 | 0.004 |
| <u> </u> | (293 | | 1698 | Roof-HEPA exhaust-NACY | 15/00 | 0650 | 1400 | 410 | 4 | 4 | Ч | 1640 | 1/100 | La.004 |
| 1 | C294 | 1+ | HU135 | 1st Fl HEPAexhoust - ELE | #1 700 | 0655 | 1353 | 414 | 4 | ч | Ч | 1672 | 2/100 | 6.004 |
| | (295 | # | HUZEA | Roof-HERY Policy-NAOS | 15/100 | 0650 | 1400 | 410 | 4 | 4 | Ч | 1640 | , , , | 40004 |
| | (296 | out | (696 | 3rd Fl. OLYN comidor | 15/100 | 0645 | 1357 | | ч | U | ų | 1728 | 4/100 | 10-003 |
| | C297 | it | 097 | 2ml A - 0283- HEPA esh. H. | 5/100 | 0822 | $\overline{}$ | | 2 | 2 | 2 | 586 | 127 | <0.0DS |
| | C294 | + | 3055 | 2nd Fl - 0209-HEDA exh. # | | 6825 | | | 2 | a | 2 | 540 | 7/- | <0.005 <0.005 |
| V | (299 | INA- | 8504 | 3-17- between 253/254 | 1.5/100 | 0820 | | 295 | 4 | 4 | y | 1160 | 9.5/10 | _ |
| | | | | | 1 | | | 77 | <u>-</u> - | | | (100- | 710 | 0.004 |
| *** | | | | | | | | | | | | | | |
| *** | - | | | | | | | <u> </u> | | | | | | |
| Recount Sa | ample # | C294 | Recount | 2/100 | | | | | | | | | | |



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| Project Name: Pierce College Olympic South Abatement and Repairs | | | | | | WEATH | ER/TEMP | • | Comme | nts: | | | | |
|--|---|--------------------|---|---|---------------------|-----------------------------------|-------------|-------------|----------|----------------------|--------|----------|-------------|------------------|
| Project No | o.: 40535.488 | | | LH. TOAN NOUME | V | | PAR | T-4 | | | | | | |
| Location: I | akewood, W | A | | SAMPLE MEDIA/ANALYTICA | L METHOD | : | اكده | NOPY | | | | | | |
| Contracto | r: Dickson | | | NIOSH 7 | 400 | | 50 | o' 5 | | | | | | |
| Client: DES | 3 | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ME: | ANALYZEI Mike Si | | (1) | // | DATE/1 | I IME: 3 / 2 / | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ME: | ANALYZE | | And IC | 100 | DATE/I | | | | | |
| CODES: | Ect No.: 40535,488 tion: Lakewood, WA ractor: Dickson t: DES NQUISHED BY (SIGN.): DATE/TI EIVED BY (SIGN.): DATE/TI ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA C301 B C301 B C301 B C302 H C303 P C304 H S9 C305 H LW135 C306 H C306 H C307 H C308 H C304 OWA I696 | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARANG | N | LE | GBA H | GLOVE I HEPA | BAG AR | ĒA | | |
| DATE | I.H. TOAN NGU SAMPLE MEDIA/ANAL NIOSA COTO: Dickson DES QUISHED BY (SIGN.): DATE/TIME: VED BY (SIGN.): DATE/TIME: VED BY (SIGN.): DATE/TIME: OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA B BLANK E SAMPLE NUMBER CODE PUMP LOCATION ACTIVITY / PERSON LOCATION ACTIVITY / PERSON C301 B Field blank C301 B Field blank C302 H G504 C303 P G7 III 2nd FI. Person C304 H S9 And FI HEPA exhaust - OC C305 H GUISTO C306 H GUISTO C306 H GUISTO C307 H TO TMFI HEPA exhaust - WA C307 H TO TMFI HEPA exhaust - WA C309 OWA 1696 Srd FI OLY N. camidor C310 TWA 211607 Srd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C311 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 OWA S297 Znd FI Lood-out - Skylo C312 C312 OWA S297 Znd FI Lood-out - Skylo C | | | | BLANK AVG | TIME ON | TIME OFF | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 10/14/21 | | B | | | AVG | UN | UFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 1 | | | | | | | | | | | | | 9/100 | |
| | | | 4504 | | | 0626 | 1350 | 324 | 4 | 4 | ,, | 1296 | 7100 | 12 -21 |
| - | | | | 41- A | 2/100 | 6840 | 1400 | 320 | 2 | 2 | 4 | 640 | 7100 | (0.005 |
| | | | | | | 0754 | 1424 | 396 | 2 | 2 | 2 | 780 | -5/100 | <0.005 |
| | | | 14135 | 1st A HEPA exhaust-FrE #2 | 9/100 | 0654 | 1430 | 456 | 4 | 4 | 4 | 1824 | %00 | |
| | | 4 | 1618 | | 2/100 | 0635 | 1419 | 464 | ų | ų | ч | 1856 | 9/100 | <0.002 <0.002 |
| | C307 | # | 70 | ************************************** | e 0/100 | 6750 | 1426 | 396 | 2 | 2 | 2 | 792 | | <0.005 |
| | C308 | H | *************************************** | Roof - HEPA exhaust - NAOS | %00 | 0635 | 1419 | 466 | 4 | 4 | ч | 1864 | | 10.002 |
| | C309 | OWA | 1696 | | 0/100 | 0620 | 1414 | 474 | ч | 4 | ч | 1896 | in/ | 0.003 |
| | C310 | IWA | 211607 | 34 HOLY 5. @ 331 | %100 | 6708 | ાવપ | 276 | ų | ч | ч | 1164 | 6.1 | 0.004 |
| J | C311 | δWA | 8297 | 2nd Fl Load-out - skyloridge | 0/100 | 0700 | 1433 | 453 | 4 | ц | 4 | 1812 | | (0.002 |
| | | | | 4 CAS | | | | | | | | | | |
| | | | | | | | | | | | | <u> </u> | | |
| Recount Sa | mple # | 306 | Recount | 0/100 | | | | | <u> </u> | | | | | |



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| Project Nar | ne: Pierce Co | llege Oly | mpic South | Abatement and Repairs | | | WEATH | R/TEMP: | | Comme | nts: | | | |
|--|--|--|---|---|------------------|---------------------------------|----------|------------|--------------|-----------------|--|--|------------|----------------|
| Project No. | : 40535.488 | | | I.H. T. NGUYEN | 1 | | | | | | | | | |
| Location: La | kewood, WA | ١ | | SAMPLE MEDIA/ANALYTICA | L METHOD: | | | | | | | | | |
| Contractor: | Dickson | | | MTOS HTL | 100 | | | | | | | | | |
| Client: DES | | | | | | | | 2.1 | | | | | | ·· <u>·</u> ·· |
| RELINQUI | SHED BY (SIG | GN.): | DATE/TIM | E: | ANALYZED | , | 1/10 | | DATE/I | IME: | j | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | E: | ANALYZED | | Vin An & | 7 | DATE/ | | , | | | |
| | ECEIVED BY (SIGN.): DATE/ DOES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA COUTSIDE AREA OWA OUTSIDE | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | LAVC | TOTAL | FIB FLD | FIB CC |
| | | N/Z | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | 1/100 | |
| 10/19/2 | | | | Field blank | <u> </u> | | | | | | | | 0/100 | |
| - | | | ~_ | Field blank | 1 1512 | 2001 | 12/2 | 384 | 2.5 | 12- | 25 | 960 | | 10.005 |
| | | | , , , , , , , , , , , , , , , , , , , | 2nd FlHEPA exhaust-0281 # | 1 5/100 | 8526 | 1350 | | 4 | 2.5 | 4 | 1520 | 2.5/100 | 10.005 |
| -/ | | | | 2 MFI HEDA enhant-0283 | | | 1350 | 365 365 | 2.5 | 2.5 | 2.5 | 912 | 7.5/100 | <u>∠0.005</u> |
| | | | | | 1100 | 08465 | 1350 | | 4 | 4 | 24 | 1724 | 0/100 | |
| 1 | | | | Root-HEPA estransi-NAOS | 1100 | | 1411 | 431 | | | | 1544 | 1 - i | (8.002 |
| 1 | | <u> </u> | | 2nd F Lond-out - skybridge | 100 | | | 461 | 4 | 4 | 2.2 | 944 | 7100 | 60,002 |
| | | | ` | 2nd Flo-Staircuse-Wo exter | | | 1402 | 431 | 2,2 | 2.2 | | | 12/ | K0.004 |
| | <u> </u> | | 16960 | Rost-HEPAexhaust-NAC | 1 /00 | 0700 | 1411 | 431 | 4 | 4 | 4 | 1724 | 7700 | K0.002 |
| | i | 1 | HV135 | HEPA cohous- FICE #1 | 15/100 | T | 1357 | 427 | 4 | ų | 4 | | 1121 | 80.002 |
| | | I | 1696 | 3rd Fl OLTN. carridor | 100 | | 1405 | 435 | 4 | 4 | 4 | 1740 | 1./50 | |
| | <i>U323</i> | IWA | 211607 | 3rd Flo - CLYS, QOB31 | 3/101 | 0625 | 1117 | 304 | 4 | 4_ | 4 | 1232 | OVER | LCADEL |
| \/ | | | | | | <u> </u> | | | - | ļ | - | | <u> </u> | <u> </u> |
| 1 | | ļ <u> </u> | | | <u> </u> | - | - | | | | ╂ | - | | - |
| | | ļ | | 2.1 | | <u> </u> | | | 1 | | | | <u> </u> | |
| Recount S | tecount Sample # 0320 Recoun | | | 2/100 | | | | | | | 1 | | | |



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| Project N | Project Name: Pierce College Olympic South Abatement and Repairs | | | | | | | WEAT | HER/TEMP | ρ. | Commo | | | | |
|-----------------|--|--|--|---------------------------------|-------------------------|--------------------|---------------------------------------|--------------|------------------|-------------|-----------------|---|--------|--|------------------|
| | No.: 40535.488 | | | | | | | - | | | Comm | ents. | | | |
| Location: | : Lakewood, W | VA | | SAMI | PLE MEDIA/ANALYTICA | SLAWD AL METHOD | <u></u> | | ILY SU | - | | | | | |
| Contracto | or. Dickson | | | | NIOSH 74 | | '• | 50 | TO 6 | 26 | | | | | |
| Client: DE | <u> </u> | | | | | | | | | | | | | | |
| | JISHED BY (SI | IGN.): | DATE/TIN | ME: | | ANALYZEI | -5 DV. | <u></u> | -,-/- | | <u></u> | | | | |
| BECEIVEL | - PV (CICAL) | | | | | MIKES | MITH M | 11/ | 4 | DATE/1 | TIME: 21/2 | . 1 | TWA: | | |
| <u></u> | D BY (SIGN.): | | DATE/TIM | Æ: | | ANALYZE | D BY! | | 101 | DATE/I | | <u> </u> | 1 | | |
| CODES: | P PERSO IWA INSID OWA OUTSI | DE AREA | | C CLEARA A AMBIEI B BLANK | ENT AIR | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANO | ON | 5 1.5 | GBA H | GLOVE E HEPA | BAG AR | ŧΕΑ | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | | LOCATION | BLANK | TIME | TIME | | Τ | FLOW | | TOTAL | FIB | FIB |
| 10/20 | C324 | PS. | | | IVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | | FLD | CC |
| | C325 | B | ++ | | BLANK | | | | | <u> </u> | <u> </u> | <u> </u> | \geq | 0/100 | |
| | C326 | ~ ~ | + | |) TSLANK | 1 | | <u></u> | <u></u> | <u> </u> | | <u></u> | | 2/100 | - |
| -/ | | 14 | HV 135 | | / | 1-/100 | 1 | 1350 | 402 | 4 | 4 | 4 | 1608 | | (0.003 |
| + | C327 | | 090 | ouy S. | LV3, N. SIRE | 1/100 | 0712 | 1350 | 406 | 2.2 | T | 2.2 | | 12.70 | K0.005 |
| + | C328 | OWA | | | 31/42, N. CORR | | 0726 | 140/ | 401 | 4 | 4 | 1 | 1604 | 10/ | K0.003 |
| + | C 329 | 1 | 1698 | _ROOF | EXHAUST NA | 02/100 | 0723 | 1405 | 402 | 2/ | 4 | 14 | 1608 | | |
| + | C 330 | | 30A | ROOF E | TORN TOVAHA | 1/100 | 0723 | 1406 | 403 | 4 | 14 | 1 | 1612 | T 7 - T | Ko.003 |
| - | | | | Jug Er | LOAD-DUT CA | | . , , , , , , , , , , , , , , , , , , | | ! | 2/ | 1/ | 1/ | 1620 | | (0.003 |
| | | | | OLY 5, 3 | | 1/100 | 0733 | 102/ | 176 | 4 | 4/ | | 1 | | T |
| + | €333 | | 97 | OLY S.L. | VL3 Rm 284, N | A37 1/100 | 10845 | 1.1353 | 1310 | ┝──┼ | 2.5 | | | 1 <i>2</i> 7 9 7 | |
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| | C335 | P | 6109 1 | LVI+L TOAN | -V2 - PErsonal NGWEN | 1/ | | . T | | 2.5 | | $\overline{}$ | 775 | | <0.005 <0.005 |
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| Project Na | Project Name: Pierce College Olympic South Abatement and Repairs | | | | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|-------------|---|--|----------|--|-------------------|---------------------------------|-------|---------|----------|-----------------|--------|-------|----------|-------|
| Project No | o.: 40535.488 | | | I.H. PETER STEA | د م اک | <u>N</u> | PAR | 2727 (| LOUP | | | | | |
| Location: I | Lakewood, W | A | | I.H. PETER STEA SAMPLE MEDIA/ANALYTIC | AL METHOD | - | 60 | 5 | i | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DE: | S | | · | | | | | | | | | | | |
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| RECEIVED | BY (SIGN.): | | DATE/TIN | ME: | ANALYZE | | l | | DATE/1 | | | | | |
| CODES: | ct No.: 40535.488 tion: Lakewood, WA ractor: Dickson t: DES NQUISHED BY (SIGN.): DATE/TIN EIVED BY (SIGN.): DATE/TIN EIVED BY (SIGN.): DATE/TIN EIVED BY (SIGN.): DATE/TIN ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA C 337 B - C 337 B - C 338 H Alv 135 C 339 H 90 C 340 OWA 1696 C 341 H 1698 C 342 H 1698 C 343 OWA 7297 C 345 TWA 8504 | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LΕ | GBA H | GLOVE I HEPA | BAG AR | EA | | |
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| — | | 1 | | OLY S LV3 N. CORRIDAR | 1 1 | <u> </u> | 135% | | 4 | 4 | 4_ | 1672 | 6/100 | |
| | | | 1698 | ROOF NAO3 | 0/100 | 0702 | 1359 | 417 | 4 | 4 | 4_ | 1668 | 100 | |
| | | | | | 0/100 | 0703 | 1359 | 416 | 4 | 4 | 4 | 1664 | 1/100 | |
| | C343 | | | 2 FL LOAD-OUT CAS | 0/100 | 0769 | 1340 | 39] | 4 | 4 | 4 | 1668 | 100 | |
| | C344 | INA | 211607 | 045.341,0331 | 0/100 | 0716 | 1001 | 165 | 4 | ij | 4 | 1664 | 14/100 | |
| | c345 | IWA | 8504 | Lv. 2 - Rm 284 | 9/100 | 0733 | 0933 | 120 | 4 | 4 | 4 | 480 | | OADED |
| 1 | c346 | H | 089 | OLYS. LV3 H#I | 0/100 | 0830 | 1350 | 320 | 2.4 | 2.4 | 2.4 | 768 | 0/100 | |
| | C347 | <u>H</u> _ | , , | HEPA OUTSIDE OF 283 | 9/100 | 0845 | 1344 | | 2.6 | | 2.6 | 777 | 2/100 | |
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| Recount Sa | ample# | C341 | Recount | 100 | | | | | 1 . | | | | | |



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| Project Name: Pierce College Olympic South Abatement and Repairs | | | | | | , | WEATH | ER/TEMP | : | Comme | ents: | | | |
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| o.: 40535.488 | | | I.H. 7 | PETED STEA | 15 LANI | | P. c | العاد | 5 4 | | | | | |
| Lakewood, W | A | | SAMPLI | E MEDIA/ANALYTICA | L METHOD: | : | 50 | - 603 | , (| | | | | |
| r: Dickson | | | | NIOSH 149 | (00) | • | | | | | | | | |
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| BY (SIGN.): | | DATE/TIM | E: | | ANALYZEC |) BY: | BU! | | | | | | | |
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| I.H. PETER STONE LAKEWOOD, WA DES QUISHED BY (SIGN.): DATE/TIME: VED BY (SIGN.): DATE/TIME: VED BY (SIGN.): DATE/TIME: SE: P PERSONAL C CLEARANCE A AMBIENT AIR BLANK INSIDE AREA B BLANK TE SAMPLE CODE PUMP LOCATION ACTIVITY / PERSON 2) C348 B - FIELD BLANK C349 B - FIELD BLANK C350 H HV135 ECE HEAR #2 C351 H G90 CLYS., LV3, N SID C353 H O87 EXHAUST HERR I. C353 H O89 EXHAUST WINGERING C355 H HV30A ROOF NACA C357 OWA 8297 2 ^{M2} FL LOAD-OUT CD (C358 TWA 211607 OLYS.LV3, @ 33) | | | • | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB | |
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| | ├─── ── | | | NA OT | 1001 | 0720 | 1406 | 406 | 4 | 4 | 4 | 1624 | 111 | 40.000 |
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| | Exercises of the property of t | C352 H C354 H C357 CWA C358 TWA C358 TWA C358 TWA | Lakewood, WA T: Dickson SHED BY (SIGN.): DATE/TIME BY (SIGN.): DATE/TIME BY (SIGN.): DATE/TIME BY (SIGN.): DATE/TIME BY (SIGN.): DATE/TIME DATE/TIME DATE/TIME DATE/TIME DATE/TIME CASTONAL CODE PUMP CASTONAL CODE PUMP CASTONAL CASTONAL CODE PUMP CASTONAL CASTONAL CODE PUMP CASTONAL CA | Lakewood, WA T: Dickson SHED BY (SIGN.): DATE/TIME: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA C 348 B - FIELD E C 349 B - FIELD E C 350 H HV38 ECE C 351 H G90 CLYS. L C 355 H HV30A ROOF N C 357 OWA 8297 2 H L C 358 TNA 211607 OLYS. L C 358 TNA 211607 OLYS | Lakewood, WA SAMPLE MEDIA/ANALYTICA POICKSON SHED BY (SIGN.): DATE/TIME: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP C348 C348 B FIELD BLANK C349 B FIELD BLANK C350 H HVI35 ECE HEAR C351 H G90 C445. C352 H C97 EXHAUST HEAR C353 H O89 EXHAUST WS.DE C355 H O89 EXHAUST C355 H HV30A ROOF NAO4 C357 C357 CWA S297 2 *** FL LOAD-OUT CAS C358 TWA 211607 C445. LV3, 0 33 C45 C45 C45 C45 C45 C45 C45 C | LIH. PETED STENSLANT Lakewood, WA SAMPLE MEDIA/ANALYTICAL METHOD: NOTORA TOO STED BY (SIGN.): DATE/TIME: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA B BLANK SAMPLE ROBE NUMBER CODE PUMP ACTIVITY / PERSON C348 B - FIELD BLANK C350 H HV135 ECE HERA # 2 1/100 C353 H G90 C45. LV3, N SIDE 1/100 C353 H O89 EXHAUST-W SIDE 2 ¹¹ /100 C354 C355 H HV30A ROF NAOA 1/100 C357 CWA S197 2 ¹¹ /100 C357 C357 C457 C457 C457 C457 C457 C457 C457 C4 | I.H. | I.H. PETED STENSLAND P. C. | I.H. PETER STENSLAND F. CLOSE SAMPLE MEDIA/ANALYTICAL METHOD: 50 - 60 \$ 50 - 60 | I.H. PETER STENSLAND SAMPLE MEDIA/ANALYTICAL METHOD: 50 - 6005 | Likewood, WA | I.H. PETER STENSLAND SAMPLE MEDIA/ANALYTICAL METHOD: 50 - 605 | I.M. | Likewood, WA |



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| Project Na | roject Name: Pierce College Olympic South Abatement and Repairs | | | | | | | WEATH | IER/TEMP | | Comme | ents: | | | |
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| Project No | .: 40535.488 | | · · · · · · · · · · · · · · · · · · · | LH. C | ameron Budni | rck | - | 10. | Cloud | \ f | | | | | |
| Location: l | _akewood, W | A | | | E MEDIA/ANALYTICA | | • | | _ | 4 | | | | | |
| Contractor | : Dickson | | | \neg | NSH 74X | 2 | | M/C | 50s | | | | | | |
| Client: DES | | | | ''` | 75,05 | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | E: | | ANALYZE | D BY: | | · | DATE/1 | IME: | | TWA: | | |
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| Project No | .: 40535.488 | | | I.H. T. NGUYEN | | - | 57 |) S | | | | | | |
| Location: l | akewood, W | Α | | SAMPLE MEDIA/ANALYTICA | L METHO | DD: | R | AIN. | | | | | | |
| Contracto | : Dickson | | | UT 05H 740 | ٥ | | | | | | | | | |
| Client: DES | • | | | 1011031. 710 | • | | | | | | | | | |
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| | | | | 1 | | 0702 | 1432 | | 4 | ų | 4 | 1400 | 1/100 | 0.0629 |
| | | | | | - | 0718 | 1426 | 428 | 2.2 | 2.2 | 2.2 | 941 | 1.5/100 | 20.002 |
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| Project Name: Pierce College Olympic South Abatement and Repairs | | | | | | | | WEATH | ER/TEMP: | | Comme | nts: | | <u></u> : | |
|--|--|--|----------|-------------------------|----------------|--|-----------------------------------|-----------------|----------|----------|-----------------|--------|------|-----------|----------|
| Project N | o.: 40535.488 | *** | | I.H. T. NGUYEN | , | | _· | 1 | | | | | | | |
| Location: | Lakewood, W | 4 | ···· | SAMPLE MEDIA/ANALYTICA | AL MET | HOD | : | 1 | | | | | | | |
| Contracto | r: Dickson | | · | MIOSA 7400 | | | | | | | | | | | |
| Client: DE | S | | | | | | | | | | | | | | |
| | | GN.): | DATE/TIM | 1E: 10/28/21_ | ANAL | YZEC |) BY: / | - ha | lustr | DATE/1 | IME: | | TWA: | | |
| RECEIVE | Ject No.: 40535.488 J.H. T. NGUYEN SAMPLE MEDIA/ANALYTICA NIOSH 7400 Intractor: Dickson INQUISHED BY (SIGN.): DATE/TIME: DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA B BLANK DATE NUMBER CODE NUMBER | | | ANAL | YZEC |) BY: | an o | - f- | DATE/I | IME: | | | | | |
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| DATE | E . | SAMPLE MEDIA/ANALYTICAL METHOD SH 7400 DBY (SIGN.): DATE/TIME: 10/24/21 ANAL PERSONAL INSIDE AREA A OUTSIDE AREA B BLANK MPLE JIMBER CODE PUMP LOCATION BLA ACTIVITY/PERSON AV SAGE H OGO HERA#3 N SAGT H OSG HERA#2 S SAGT JUA 201607 3" FI Load-out @ Gaylindar 240 IH: OG7 241 OWA 1696 364 - OLY S. @ 331 241 OWA 1696 374 - OLY S. @ 332 241 OWA 1696 374 - OLY S. @ 332 241 OWA 1696 374 - OLY S. @ 332 241 OWA 1696 374 - OLY S. W. Garder 362 - OLY S. W. Garder | | | TIME | TIME | TOTAL | | FLOW | 100 | TOTAL | FIB | FIB | | |
| 10/27 | · | R | | | | | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD 1/100 | cc |
| 7-7 | | | | | 17100 | <u>. </u> | | | | | | | | 1/100 | _ |
| | | | 090 | | \ | | 0725 | 1354 | 384 | 2.0 | 2.0 | 2.0 | 736 | 9/100 | <u> </u> |
| | | | | | |) | 0730 | 1400 | 390 | 2.2 | 2.2 | 2.2 | 458 | 2/100 | 40,002 |
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| | C2940 | ·H: | | 2 H E. tarcese - PEPALE | タ \ | <u> </u> | 0741 | 1409 | 3/67 | 2.2 | 2.2 | 2.2 | 85 (| 1/100 | K0,002 |
| | C391 | ous | 1696 | | | 1 | 0712 | 1351 | 399 | ų | 4 | 4 | | 6/100 | 40,002 |
| | C392 | IW4 | 8504 | | | | 0755 | 1750 | 355 | ધ | 4 | 4 | | 6/100 | 0.002 |
| | | | | | | | | | | | | | | | |
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| Project Na | me: Pierce Co | ollege Ol | ympic Sout | h Abatement and Repairs | | - | WEATH | ER/TEMP: | | Comme | ents: | | | |
|-------------|---|-----------------|---|---------------------------------|--|--|----------|-------------|----------|-----------------|-------------|-------|----------|-------------|
| Project No | .: 40535.488 | | | I.H. | | | | | | | | | | |
| Location: L | akewood, W | Ą | * | SAMPLE MEDIA/ANALYTICA | L METHOD |): | | | | | | | | |
| Contractor | : Dickson | | | | | | | | | | | | | |
| Client: DES | - | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | 1E: | ANALYZE | D BY: | <u> </u> | | DATE/T | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | ANALYZEI | D BY: | <u></u> | · · · · · · | DATE/1 | IME: | ·········· | | | |
| CODES: | IWA INSID | E AREA | | | PRE EX TEM | PRE-ABAT EXCURSION CLEARANG | N | LE | GBA H | GLOVE I HEPA | BAG AR | ĒA | | |
| DATE | EIVED BY (SIGN.): P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP C394 C394 C395 C396 C396 C396 C397 C397 C397 C397 | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 10/21 | ES: P PERSONAL C CLEARANCE IWA INSIDE AREA A AMBIENT AIR OWA OUTSIDE AREA B BLANK ATE SAMPLE NUMBER CODE PUMP LOCATION ACTIVITY / PERSON C394 B Field Idank 2 C395 H 090 2nd A ext. Sheirase W. C396 H 1698 Roof- 0.495 N. HO C397 OWA 897 2nd A skybridge-schs | | | | | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 10/25 | | | | | activity/PERSON AVG ON sield blank 1/100 sield blank 2 | | | | | | | | 9/100 | |
| - | | | ACTIVITY/PERSON AVG ACTIVITY/PERSON AVG C Field blank 1 1/100 Field blank 2 OPO 2 nd Fl ext. strivayew #2 OPO 2 nd Fl ext. strivayew #2 | | | | 12.001 | 11 11 | | | | C0201 | 2/100 | 2 121 |
| | | 1 | | \vdash | 0710 | 1354 | 404 | 2.0 | 2.0 | 2.0 | <i>80</i> 4 | 4/100 | 0.00.Z4 | |
| | | | | | | 6762 | 1465 | 423 | 4 | 4 | 4 | 1692 | 1.5/100 | 20.002 |
| 1 | | | | | 1 | 6726 | 1412 | 434 | 4 | 4 | 4 | 1736 | 15/100 | 0,004 |
| | | | | 3rd H CLY No comider | 74 | 6656 | 1403 | 427 | 4 | 4 | 4 | (703 | 12/100 | 0,003 |
| | 6299 | INA | 211607 | 3rd FlOLYSunder @03 | 12 T | 0732 | 1054 | 202 | 4 | 4 | 4 | 408 | | DADED |
| | C460 | + + | 30A | Roof-OLYS-NAO7 | - | 0700 | 1465 | 425 | 4 | 4 | 4 | 1700 | 8/100 | 0.0023 |
| | C401 | Tù/A | 097 | 2 rd Fl ext. of 0293 | | 0718 | 1351 | 393 | 2.2 | 2.2 | 2.2 | \$65 | 105/100 | 20,002 |
| - | C402 | 14 | 8584 | 24 A OLYS. | | 0705 | 1250 | 345 | 4 | 4 | 4 | 1340 | 10.5/100 | 0,0037 |
| | 6403 | (- 8 | 089 | 2nd A OLYS 0284 | W | 0713 | 1356 | 403 | 2.4 | 2.4 | 2.4 | 967 | 4/100 | 40,002 |
| | | | | | | - | | | | | | | | |
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| Recount Sa | mple # | | Recount | | | | _ | | | | | | | |



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| Project Na | ame: Pierce C | ollege Ol | ympic Sout | h Abatement and Repairs | | | WEATH | IER/TEMP | : | Comme | ents: | | | |
|-------------|----------------------------------|-----------|------------|-----------------------------------|------------------|----------------------------------|-------|----------|----------|------------|--------|---------------|--------|--------|
| Project No | o.: 40535.488 | | | I.H. PETER STEN | GUALE | | PAR | TILL CL | ady | | | | | |
| Location: | Lakewood, W | Ά | | SAMPLE MEDIA/ANALYTICA | AL METHOD | | 60 | THY CL | | | | | | |
| Contracto | r: Dickson | | | NIOSH 740 | 0 | | | | | | | | | |
| Client: DES | S | | | | | | | | | | | | | |
| | ISHED BY (SI | GN.): | DATE/TIN | ME: | ANALYZE | D BY: | IX | 14 | DATE | // " | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ME: | ANALYZE | | | 1 | DATE/ | 100 | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE HEPA | BAG AR | EA | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 10/01 | NUMBER | 2 | F 24024 | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 10/29/21 | C404 | B | _ | FIELD BLANK | | | | | | | | \rightarrow | 0/100 | |
| / | C405 | B | | FIELD BLANK | | | | | | | | | 0/100 | |
| | C406 | OWA | 1696 | 3 th fl, DLY N CORRIDOR | 0/100 | 0649 | 1408 | 439 | 4 | A | 4 | 1756 | · 5/10 | 20.002 |
| | C407 | OH. | 1698 | ROBF - NAOI | 0/100 | 0655 | 1410 | 435 | 4 | 4 | 4 | 1740 | 1/100 | 40.002 |
| | C408 | H | HV30A | ROOF - NA 02 , | %100 | 0655 | 1411 | 436 | 4 | 4 | 4 | | 9/100 | 40.002 |
| | C409 | H | 090 | 1 M fl - W. Starlase - 13 | 8/100 | 0706 | 1425 | 439 | 2 | 2 | 2 | 878 | 0/100 | <0.004 |
| | C410 | H | 089 | 2世 月 5. 世之 | 0/100 | 0710 | 1423 | 433 | 2.4 | 2.4 | 2.4 | 1039 | 1/100 | (0.004 |
| | C411 | OWA | 8297 | 1 ft. SKYBRIDGE-CAS | %00 | 0714 | 1415 | 421 | 4 | 4 | 4 | 1684 | 1/100 | 0.003 |
| | C412 | 14 | HV135 | ECE #1 | 0/100 | 0714 | 1420 | | 4 | 4 | 4 | 1764 | . / | 40.002 |
| | 6413 | 1 | 097 | 2 NdfL EXT @ 283 H# | 0/100 | 0717 | 1419 | 422 | 2-7 | 2.7 | 27 | 1139 | 0/100 | 40.004 |
| | C414 | IWA | 211607 | 3th 1 Corridor @ 331 | %,00 | 0730 | 1000 | 150 | 4 | 4 | 4 | 600 | | ADED |
| 4 | C415 | INA | 8504 | 2 nd fl - CLEANING RM | 0/100 | 0709 | 0935 | 146 | 4 | 4 | 4 | 584 | 5 5/00 | 0.005 |
| | | | | | | | | | | | | | | |
| Recount Sa | ample # | C415 | Recount | 6/100 | | | | | | | | | | |



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| Project Na | ame: Pierce C | ollege Ol | ympic South | Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | ents: | | | |
|------------|--|-----------|-------------|---|------------------|----------------------------------|-------|-------------|----------|---------------|--------|---------------|----------|-------|
| Project No | o.: 40535.488 | | | I.H. PETER STENS | GIAL | | 110 | | -0 | | | | | |
| Location: | Lakewood, W | Ά | | SAMPLE MEDIA/ANALYTICA | AL METHOD |); | | 5 - 5 RA | | | | | | |
| Contracto | r: Dickson | | | N105H 740 | 00 | | | - KH | 112 | | | | | |
| Client: DE | S | | | | | | | | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TIM | E: | ANALYZE | D BY: | | | DATE/ | TIME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | E: | ANALYZE | D BY: | | | DATE/ | ГІМЕ: | | | | |
| CODES: | PES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | NC | LE | GBA H | GLOVE HEPA | BAG AR | EA | | |
| DATE | | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 11/1/03 | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 1/2 C416 B - C417 B - C418 OWA (C96 C419 H H/30A C420 H 1698 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 1.12 | 12 C416 B - | | | FIELD BLANK | | | | | | | | \rightarrow | 0/100 | |
| - | C417 B - | | | FIELD BLANK | | | | | | | | > | 0/100 | |
| | | | | 3rd H Oly N. Corridor | | 6:55 | 2:05 | 430 | 4 | 4 | 4 | 1720 | 12/100 | .003 |
| | C419 | | HV30A | Roof-NAOS | | 7:00 | 2:09 | 429 | 4 | 4 | 4 | 1,716 | 1/100 | 4.002 |
| | | | | Raof-NAO4 | | 7:01 | 2:09 | 428 | 4 | 4 | 4 | 1,712 | 3/100 | 4.602 |
| | C421 | IWA | 8504 | v 2 by 264 | | 7:05 | 12:30 | 325 | 4 | 4 | 4 | 1,300 | 44/100 | 0.01 |
| | C422 | H | 090 | W Stairs # 3 | | 7:13 | 2:07 | 414 | 2 | 2 | 2 | 828 | 1.5/100 | <.004 |
| | C423 | H | 089 | 2nd FL 284 # 1 | | 7:18 | 2:09 | 411 | 2.4 | 2.4 | 2.4 | 986. | 2/100 | 4.004 |
| | C424 | H | HV135 | ECE #2 | | 7:21 | 2:02 | 401 | 4 | 4 | 4 | 1604 | 4/100 | 6.604 |
| | 6425 | H | 097 | 2nd FL 283#3 | | 7:25 | 2:04 | 399 | 2.2 | 2.2 | 2.2 | 8.78 | 1 /100 | |
| | C426 | AWO | | 2nd FL Skybrdge-CAS | | 7:30 | 1:05 | 335 | 4 | 4 | 4 | 1340 | 10.5/100 | |
| | C426 OWA 8297 C427 IWA 211607 | | | 3rd FL Corridor @ 331 | | 7:40 | 12:25 | 285 | 4 | 4 | 4 | 1,140 | TDIC | .00 (|
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Recount S | ample # | c423 | Recount | 1/100 | | | | | | | | | | |



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| Project Na | me: Pierce C | ollege Ol | ympic Sou | th Abatement and Repairs | | | | ER/TEMP | : | Comme | nts: | | | |
|-------------|---|-----------|-----------------|-----------------------------------|------------------|----------------------------------|-------|-------------|----------|-----------------|--------|-------|---------------|--------|
| Project No | .: 40535.488 | | | I.H. Cameron Budn | rick | | | 7 Pbc | | | | | | |
| Location: l | akewood, W | Α | | SAMPLE MEDIA/ANALYTIC | | : | 4 | 8°C | | | | | | |
| Contracto | r: Dickson | | | | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | /IE: | ANALYZEI | | in M. |) | DATE | TIME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZEI | | 10 | | DATE/ | | | | | |
| CODES: | ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUM 2 (A 28 OWA 824 | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | NC | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | EIVED BY (SIGN.): DATE/TI ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA ATE NUMBER CODE PUMB (21 (4 28 OWA 8297 (42) (4 29 OWA 1696 (4 30 IWA 211607 (431 H HU30A (432 H H698 (433 IWA 8504 (433 IWA 8504 (433 IWA 9504 | | | LOCATION ACTIVITY (PERSON | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 11/2/21 | | DINA | 2207 | 2nd fl Load out | AVG | 6:50 | OFF | TIME | PRE 4 | POST 4 | AVG | VOL | FLD | СС |
| 14/2/21 | | | | 3rd fl Oly N. comidor | 0/100 | 6:52 | 2:10 | 443 | 4 | 4 | 4 | 1760 | 7/100 | 0.002 |
| 1 | | | A Maria Control | 3 rd fl corridor @ 331 | 9/100 | 6:55 | 11:02 | 247 | 4 | 4 | 4 | 988 | 6/100 TOTC | 0,002 |
| | | | | Proof-NA03 | 0/100 | 7:07 | 2:19 | 432 | 4 | 4 | 4 | 1728 | 1.5/100 | 40.002 |
| | | H | 1698 | Roof NAO2 | 0/100 | 7:08 | 2:19 | 431 | 4 | 4 | 4 | 1724 | 9/100 | 0.002 |
| | (433 | | | LV2 0264 | %100 | 7:10 | 11:08 | 238 | 4 | 4 | 4 | 952 | 9/100 | 6.005 |
| | (434 | н | 090 | West stairs #4 | 0/100 | 7:17 | 2:30 | 433 | 2 | 2 | 2 | | 3/100 | <0.004 |
| | | 17 1 | | 2ndfl 284 # 2 | 9100 | 7:21 | 2:31 | 430 | 2 | 2 | 2 | 860 | 2/100 | 40.004 |
| | 6436 | H | HU135 | ECE #1 | 9100 | 7125 | 2:29 | 424 | 4 | + | 4 | 1696 | 7/100 | 0.002 |
| | (437 | H | 047 | 2nd Pl 253 # 2 | 0/100 | 7:29 | 2:26 | 417 | 2 | 2 | 2 | 834 | 6/100 | 0.004 |
| | (438 | 8 | - | - Field Blank- | 0/100 | | | | | | | | | |
| • | (439 | 3 | _ | - field lolank- | 0/100 | - | | | | | | | | |
| | | | | | | | | | | | | | | |
| Recount Sa | ample # | C431 | Recount | 1.5/100 | | | | | | | | | | |



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| Project Na | ect Name: Pierce College Olympic S ect No.: 40535.488 | | | Abatement and Repairs | | | WEATH | IER/TEMP | : | Comme | ents: | | | |
|-------------|--|-------|----------|---------------------------------------|------------------|----------------------------------|-------|----------|----------|-----------------|--------|-------|---------|-------|
| Project No | .: 40535.488 | | | I.H. Cameron Budnich | L | | Clou | 1901 | | | | | | |
| Location: l | _akewood, W | A | | SAMPLE MEDIA/ANALYTICA | AL METHOD | : | 52° | | | | | | | |
| Contracto | r: Dickson | | | | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | * | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIM | E: | ANALYZE | | n | 1 | DATE/ | | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | E: | ANALYZE | | Mun | 100 | DATE | 7/2, TIME: | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE 3 2 CA40 H C441 H | | | CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | . % | |
| DATE | DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER 3 2 CAAO H 16 CAAI H HU CAAZ ONA 160 CAAZ ONA 160 CAAZ ONA 160 | | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| Jala | | | 1100 | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 11(3(2) | | | 1698 | 400t - NA 04 | 0/100 | 7:00 | 1:41 | 401 | 4 | 4 | 4 | 1604 | 6/100 | ,002 |
| | | | HU30A | Root-NAOS | 1/100 | 7:05 | 1:40 | 405 | 4 | .4 | 4 | 1620 | 6.5/100 | 002 |
| - | | | 1 | 3 rdfl Oly N. conidor | 9/100 | 6:52 | 1:43 | 411 | 4 | 4 | 4 | 1644 | 7/100 | .002 |
| - | | | 8504 | LV 2 @ 264 | %100 | 7:12 | 11:10 | 238 | 4 | 4 | 4 | 952 | 12/100 | .006 |
| | C444 | H | | Nest Stairs #1 | %100 | 7:15 | 1:50 | 395 | 2 | 2 | 2 | 790 | 6/100 | .604 |
| | C445 | H | 089 | ndfl 284 # 2 | 9/100 | 7:18 | 1:53 | 395 | 2 | 2 | 2 | 790 | 5/100 | 6.004 |
| | C446 | H | HV 135 | ECE #2 | 0/100 | 7:20 | 1:50 | 390 | 4 | 4 | 4 | 1560 | 2/100 | 6.004 |
| | C447 | H | 097 | ext 283 2nd fl #1 | 1100 | 7:24 | 1:47 | 391 | 2.2 | 2.2 | 2.2 | 860.1 | 3/100 | 6.004 |
| | (448 | DWA | 8297 | nd fl loadout | 0/100 | 7:30 | 1:57 | 387 | 4 | 4 | 4 | 1548 | 5/100 | .005 |
| | 449 | AWI | 211607 | 108 fl combor @331 | 0/100 | 7:35 | 10:50 | 195 | 4 | 4 | 4 | 780 | 13/100 | .007 |
| | C450 | B | - | - Field Blank ~ | 0/100 | | | | | | | | | |
| 4 | (451 | B | _ | ~ Field Blank~ | 0/100 | == | | | | | | | | _ |
| | | | - | | - | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Recount Sa | ample # | C449 | Recount | 13/106 | | | | | | | | | | |



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| Project Na | oject Name: Pierce College Olympic Sc oject No.: 40535.488 | | | th Abatement and Repairs | | | | ER/TEMP | | Comme | ents: | | | |
|-------------|---|-------|---------|-----------------------------------|------------------|---------------------------------|------|---------|----------|-----------------|--------|-------|---------|------------|
| Project No | o.: 40535.488 | | | I.H. Cameron Budnick | | | Part | ly Clav | dy | F | loor | -3 | | |
| Location: I | Lakewood, W. | A | | SAMPLE MEDIA/ANALYTICAL ME | THOD: | | 1 | 0 | | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | 7 | 5 F | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TI | ΛE: | ANALYZEI | | he | | DATE/ | TIME: /5/2 | , | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TI | ΛE: | ANALYZEI | | 1 | | DATE/ | | L | 1 | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABA EXCURSION CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | PES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP CAS2 & — | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 1110 | IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 121 CA52 B - CA53 B - CA54 H 090 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 11/4/21 | | | | Field blank | 0/100 | | | | | - | | | | |
| 1 | C453 B - | | | ticld blank | 0/100 | - | | | - | | | | | |
| | C453 B - | | | West staircase #2 | 0/100 | 6:50 | 9:50 | 180 | 2 | 2 | 2 | 360 | 2/100 | 40.004 |
| 1 | (455 | AWI | 8504 | level 20264 | 0/100 | 6:57 | 9:37 | 160 | 4 | 4 | 4 | 640 | 10/100 | 0,008 |
| | (456 | H | HV135 | ECE #1 | 0/100 | 7:02 | 9:52 | 170 | 4 | 4 | 4 | 680 | 4/100 | 40.004 |
| | 1457 | H | 6109 | Ext 283 2nd f1 #3 | 0/100 | 7:05 | 9:53 | 168 | 2 | 2 | 2 | 336 | 2/100 | |
| | 458 | DWA | 1696 | 3rd fl Oly N. Corridor | 0/100 | 7:10 | 9:42 | 152 | 4 | 4 | 4 | 608 | 1/100 | 40.002 |
| | C459 | H | HV30A | hoof-NAO3 | 0/100 | 7:13 | 9:45 | 152 | 4 | 4 | 4 | 608 | 1.5/100 | 40.002 |
| | C460 | H | 1698 | Roof-NaOZ | 0/100 | 7:15 | 9:45 | 150 | 4 | 4 | 4 | 600 | 1/100 | |
| | C461 | AWO | 8297 | 2nd fl loadart | 0/100 | 7:21 | 9:28 | 127 | A | 4 | 4 | 508 | 55/100 | |
| | (462 | | - | 3rd fl comider @ 391 | 6/100 | 7:40 | a:23 | 103 | 4 | 4 | 4 | 412 | 8/100 | |
| V | | | | West Stairs Endfl 284 HEPA 2 | 0/100 | 7:56 | 9:50 | 114 | 2 | 2 | 1 | 224 | 5/100 | 12-1-2-1-2 |
| | | | | | | | | | - | | | | | |
| | | | | | | | | | | | | | | |
| Recount S | ample # | 6462 | Recount | 8/100 | | | | | | | | | | |



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| Project Na | roject Name: Pierce College Olympic Sout | | | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | ents: | | | |
|-------------|---|--|----------|--|------------------|---------------------------------|-------------|-------------|----------------|-----------------|--------|-------|------------|-----------------|
| Project No | .: 40535.488 | | | I.H. PETER STENSLY | a vi D | | | | | | | | | |
| | Lakewood, W. | A | | SAMPLE MEDIA/ANALYTICAL ME | THOD: |) | | | | | | | | |
| Contractor | r: Dickson | | | 10.00 | ., 1-100 | , | | | | | | | | |
| Client: DES | | | | | | | | Δ_1 | | | | | | |
| | SHED BY (SI | | DATE/TIN | | ANALYZE MIKE | | | KLA | DATE/T | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | E: | ANALYZE | D BY:/ | () | 4 | DATE/T | IME: | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | ĒĀ | | |
| DATE | | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 11/5/21 | | 12 | _ | " | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 1110/21 | | - | | FIELD BLANK | | | | | | | | | 1100 | |
| -/- | | DWA | 1696 | 3rd fl. Oly N. CORRIDO | 2 -5/100 | er(ail) | (277 | 1157 | 43 | 7 | ų | | 9/100 | |
| -1 | C467 | H | 1698 | BOOF NA#OI | 15/100 | 0641 | 1 | 403 | 4 | <u>י</u> | u | 1612 | /100 | |
| | C468 | 1-1 | 14730A | | 15/100 | 0648 | 1 | • | 4 | 4 | 4 | 1608 | 100 | <0.003 |
| | C 469 | | 090 | W. STAIRS, 2 Not FL N | 15/100 | 0700 | 1330 | 402 381 | 2 | 2 | 2 | 762 | 120 100 | KD 003 |
| 1 | C 470 | $\overline{}$ | H V 135 | ECE HEPAHZ | 15/100 | 0704 | ······ | 375 | A | 4 | 4 | 1500 | | |
| | C471 | 1-1 | 6109 | HEPA#2, EXTORM 28= | 151 | 0708 | | | 2 | 2 | 2 | 742 | 1/100 | |
| | 0472 | | 8297 | 2nd FL AT LOAD OUT | 15/100 | 0715 | | 378 | <u>ک</u> نا | 4 | 4 | 1512 | 12/100 | 50.005 0.004 |
| | 0473 | | 8504 | 2 to FL @ Rm 264 | .5/100 | | 1300 | | 4 | 4 | 4 | 1372 | 14/100 | 0.005 |
| A | C474 | | 61102 | 3th Corre 331 | 15/100 | 0721 | | 289 | u u | 1 | 4 | 1156 | | 0.007 |
| | | 1 | | | | 0.12-1 | | | 1 | - | | ,,,,, | | U.OO T |
| | | | | | | - | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | ; | | | | | | | | | | |
| Recount Sa | ample # | C473 | Recount | 12/100 | | | | | | | | | - | |



214 E GALER STREET, SUITE 300 SEATTLE, WA 98102 206,233.939

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| Project Na | me: Pierce C | ollege O | lympic Sou | th Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|-------------|----------------------------------|------------|------------------|---|------------------|---------------------------------------|----------------|-------------|----------|-----------------|--------|--------------|-------|--------|
| Project No | o.: 40535.488 | | | I.H. Cameron Budnick | | · · · · · · · · · · · · · · · · · · · | 15un | ny 46 | <u>.</u> | gaes sales | | | | |
| Location: I | Lakewood, W | ' A | | SAMPLE MEDIA/ANALYTICAL ME | ETHOD: | | 1 | | 1 | | | | | |
| Contracto | r: Dickson | | | | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | Transport | | | | |
| RELINQUI | ISHED BY (SI | IGN.): | DATE/TII | ME: | ANALYZE | D BY: | 111 | 74 | DATE/ | TIME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TII | ME: | ANALYZEI | D BY: | MAG | 41 | DATE/ | 8/2! гіме: | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA | | Δ | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | NC | LE | GBA H | GLOVE E HEPA | 3AG AR | EA | | |
| DATE | f . | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 118/21 | | 12 | | Field Blank | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 10 P | A | | | Field Blank | | <u> </u> | | | | | | | 0/100 | |
| | | | | | 0/100 | 6:50 | 2:10 | 440 | 4 | 4 | ٠ | 1760 | 17/10 | |
| | C478 | 14 | 698 | NA02-100f | 0/100 | 7:04 | 2:14 | 430 | 4 | 4 | 4 | | 1. 2 | 0.002 |
| | (479 | H | HV30A | NA04-roof | 0/100 | 7:04 | 2:13 | 429 | 4 | 4 | 4 | 1720 | 0/100 | (6.002 |
| Ì | (480 | OWA | 1696 | 3rd fl Oly N. corridor | 0/100 | 7:10 | 2:11 | 421 | 4 | 4 | 4 | 1584 | 2 / | Ko.002 |
| | C481 | H | 6100 | W. Stairs 2nd fl 284 HEAR 3 | 0/100 | 7:14 | 2:04 | | 2 | 2 | 2 | 820 | 0/100 | (0.002 |
| | (482 | 14 | 090 | W. Staircase HEPA #3 | 0/100 | 7:15 | 2:01 | 406 | 2 | 2 | 2 | 812 | l . i | i |
| | 483 | Н | HV135 | ECE #1 | 0/100 | 7:25 | 2:06 | 401 | 4 | 4 | 4 | 1604 | 1/100 | 10.004 |
| | (484 | H | | Ext 283 2nd f) # 2 | 0/100 | 7.29 | 2:08 | 40 | 2 | 2 | 2 | 798 | ~ / | <0.603 |
| | (485 | IWA | &50 4 | 2nd fi @ 264 | 0/100 | 7:32 | 12:00 | 268 | 4 | 4 | 4 | 1072 | | LOND |
| | (486 | IWA | 21106 | 3rd fl corridor @331 | 0/100 | 7:35 | 11:30 | 235 | 4 | 4 | 4 | 940 | | 0.005 |
| 4 | (487 | 0WA | 8247 | 2 nd fl loadout | 0/100 | ४:05 | 2:18 | 373 | 4 | 4 | 4 | 1492 | | <0.003 |
| | | <u> </u> | | | | | | | | | | | | |
| _ | | 0.75 | | 810 | | | | | | | | | | |
| Recount Sa | emple # | (44) | Recount | °/₁0°0 | | | | | | | | | | |



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| Project Na | me: Pierce C | ollege O | lympic Sou | th Abatement and Repairs | | | WEATH | IER/TEMP | • | Commo | ents: | | | |
|--------------|---|----------|------------|--|--|---------------------------------|---------|----------|----------|-----------------|--------|--------|----------|------------------|
| Project No | o.: 40535.488 | | | I.H. Cameron Budnic | <u>.</u> | | | ^°_ | | | | | | |
| Location: I | _akewood, W | /A | | SAMPLE MEDIA/ANALYTICAL METI | HOD: | | 15 | () F | | | | | | |
| Contracto | r: Dickson | | | | | | | • , | | | | | | |
| Client: DES | 5 | | | | | | Su | אמע | | | | | | |
| RELINQUI | SHED BY (S | IGN.): | DATE/Til | ME: | ANALYZE | D BY: | FO 12 | 1 | DATE/ | IME: | | TWA: | <u> </u> | - |
| RECEIVED | BY (SIGN.): | | DATE/TII | ME: | ANALYZE | MYTH / 2/ D BY: | Lediste | XP | DATE/ | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP | | A | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | PLE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | SAMPLE CODE PUMP UMBER CODE PUMP | | PUMP | LOCATION ACTIVITY / PERSON | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 11/9/21 | CA88 B | | | | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| \ | C488 8 / | | | Field blank Field blank | | | ļ | | | | | → → | 2/00 | |
| | C489 B C490 OWA HUIS-38 | | HV18-35 | | %100 | 7:11 | 2:17 | 426 | 4 | 4 | 4 | 1704 | 100 | |
| | C491 | Н | 1698 | 200f-NAUI | 0/100 | 7:19 | 1:12 | 353 | 4 | 4 | 4 | 14/2 | 1 . | 0.002 Ko.003 |
| | CAQ2 | H | | Proof-NAO3 | 2/100 | 7:19 | 1:11 | 352 | 4 | 4- | 4 | 1408 | | <0.003 <0.003 |
| | 493 | H | | West Staircase 2nd f1 (N) Hepa 2 | 0/100 | 7:26 | 1:21 | 355 | 2 | 2 | 2 | 710 | | Ka.005 |
| | U444 | H | | West staining ext 284 Hepa 2 | | 7:29 | 1:20 | 35 l | 2 | 2 | 2 | 702 | 111 | K0.005 |
| | C495 | H | HV 135 | ECE HEPA 2 | 0/100 | 7:32 | 1:18 | 346 | 4 | 4 | 4 | 1384 | l | KO.003 |
| | C496 | AWO | 8217 | Andfl landing Oly W. | 0/100 | | 1:26 | 346 | 4 | 4 | 4 | 1384 | 5/100 | K0.003 |
| | <u>C497</u> C498 | IWA H | 2055 | 3 rd fl @ 331 corridor Ext 283 HEPA 2 | 7100 | | 11:15 | 213 | 4 | 4 | 4 | | 9/100 | 0.005 |
| / | C499 | lwA | 8504 | Ext 283 HEPA 2 283 | 0/100 | 11:00 | 1:16 | 136 | 2 | 2 | 2 | 272 | 100 | arov |
| 1 | E-500 | r Aasa | 0304 | <u> 705</u> | 100 | 11:30 | 2:13 | 163 | 4 | 4 | 4 | 652 | 13/100 | 0.01 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Recount Sa | ımple # | C491 | Recount | %00 | | | | | | | | | | |



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| Project Na | me: Pierce C | ollege Ol | ympic Sou | h Abatement and Repairs | | <u> </u> | WEATH | ER/TEMP | : | Comme | nts: | | <u> </u> | |
|---------------|---|-------------|--------------|---|------------------|---|-------------|---------|----------|---------------------|--------|-------|----------|--------|
| Project No | o.: 40535.488 | | - | I.H. PETER STENELS | NP | *************************************** | 50 | 5 | | | | | | |
| Location: I | akewood, W | Α | | SAMPLE MEDIA/ANALYTICAL MI | ETHOD: | | _ | · RAIN | J | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | 5 | · | | | | | | | | | | , | | |
| | SHED BY (SI | GN.): | DATE/TIN | IE: | ANALYZEI | D BY: | M' | DA | DATE/ | I TIME: 11/21 | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | IE: | ANALYZEI | D BY: | 71/00 | | DATE/1 | | | | | |
| CODES: | S: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | E . | CODE | PUMP | LOCATION | BLANK | TIME | ПМЕ | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| | - | 0 | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 11/10/21 | | | | Blank | | | | | | | | | /100 | _ |
| / | NUMBER C500 B C502 H 1698 | | | Blank | | | | | | | | | 1/100 | |
| -/ | NUMBER | | | Ract - NAO2 | 1/100 | 6:56 | | 432 | 4 | 4 | 4 | 1728 | %100 | 10.002 |
| | | | | Roof-NAOY | 1/100 | 6:57 | | 430 | 4 | 4 | 4 | 1720 | | <0.002 |
| | C504 | OM | HV18-38 | 1st Har dean | 1/100 | 6:57 | 2:27 | 450 | 4 | 4 | 4 | 1800 | 11/100 | 0.003 |
| | C505 | IM | 8504 | hain 283 | 1/100 | 7:12 | 11:53 | 781 | 4 | 4 | 4 | 1124 | OVER | LOAD |
| | <u>C506</u> | | 090 | W. Starcuse 1/2/MHI | 1/100 | 7:19 | 1:48 | 389 | 2 | Z | 2 | 778 | 1/100 | 40.005 |
| | C507 | 1 | 6109 | W. Starrage 112(5) HI | 1/100 | 7:21 | 1:50 | 389 | 2 | 2 | 2 | 778 | | 20.005 |
| _ | C508 | 1 | HV135 | ECE #1 | 1/100 | 7:26 | [47 | 381 | 4 | 4 | 4 | 1524 | | 60.003 |
| | C509 | 1 | 30 55 | Ext 283 \$3 | 1/100 | 7:28 | 1:44 | 376 | 2 | 2 | 2 | 752 | 9/100 | ⟨0.005 |
| | <u>4510</u> | CWA | 8297 | 2nd Fl Jarding | 1/100 | 7.33 | 2.11 | 398 | 4 | Ц | 4 | 1592 | 5.5 | <0.003 |
| \ <u>,</u> | C511 | IWA | 21607 | 3rd Fl 330 carolar | 1/100 | 7:40 | 11:06 | 206 | 4 | 4 | 4 | 824 | 3/100 | 10.005 |
| 4 | C512 | OWA | 1696 | 3rd Fl Oly. N Corde | 1/100 | • | 2:01 | 371 | Ц | 4 | Ч | 1484 | | <0.003 |
| | | | | • | | <u> </u> | | | | | | | | |
| | | | | <u> </u> | | | | | ļ | | | | | |
| Recount Sa | ample # | c512 | Recount | 3.5/100 | - | | | | 1 | | | | | |



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| Project Na | iect Name: Pierce College Olympic lect No.: 40535.488 | | | th Abatement and Repairs | • | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|-------------|--|--|----------|-----------------------------------|-------------------|----------------------------------|--------|---------|----------|-----------------|-----------|----------|--------------|--------------|
| Project No | .: 40535.488 | | | I.H. PETER STENSLI | Clue | | 50 | | | | | | | |
| Location: L | akewood, W | A | | SAMPLE MEDIA/ANALYTICAL METH | IOD: | | RA | in | | | | | | |
| Contractor | : Dickson | | | | | | | | | | | | | |
| Client: DES | | | | | | | | 4 | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZEI MIKES | D BY: | i A | N | DATE/ | | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZEI | D BY: | · A FI | | DATE/ | | | | | |
| | IWA INSIDE AREA OWA OUTSIDE AREA TE SAMPLE CODE PUMP 1/2 C 5 / 3 B ~ | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | ON | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP | | | LOCATION ACTIVITY / REDCON | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FiB |
| 11/11/21 | <u></u> | B | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 1 | | | | FIELD BLANK - | | | | | | | | <u> </u> | 1100 | |
| | C515 | ULJA | 1696 | | =5/100 | 6654 | 1730 | 394 | 4 | 1 | 4 | 1576 | 2/100 | - |
| | C516 | 1 1 | HV30A | | = 5/100 | 0657 | | 394 | 4 | 21 | 7 | 1576 | | 40.003 |
| 400 | C517 | 1-1 | 1698 | ROOF - NA#OI | -5/100 | 0658 | | | 4 | 4 | \(I_i \) | 1580 | 0/100 | 40.003 |
| | C.518 | OWA | ~~~ | | 15/100 | 0700 | | 425 | 12/ | 4 | 4 | 1700 | | 10.002 |
| | C519 | 1+ | 090 | W. STRIRCASE HEPA #2 | 15/100 | 0708 | | | 2 | 2 | 支 | 804 | 0/100 | |
| | C520 | 14 | 6109 | W. STAIRS, EXT @ 284, HEPA 2 | .5/100 | 0709 | 1351 | 402 | 2 | 2 | 2 | 804 | | 5 |
| | C521 | H | 3055 | EXT. @ 283 2 FL HEPA OL | | 0712 | 1345 | 393 | 2 | 2 | 2 | 786 | 1/100 | 10.005 |
| | C522 | H | HV/35 | ECE EXHAUST #2 | | 0713 | 1342 | 389 | 4 | 4 | 4 | 1.556 | 1/00 | Ko.003 |
| | C523 | OWA | 8297 | 2Nd FL & LOADOUT | 15/100 | 0718 | 1340 | 382 | Ŋ | 1-4 | 4 | 1528 | | Lo 003 |
| | C 524 | | 21106 | | 15/100 | 0722 | 1140 | 258 | 4 | 4 | 4 | 1032 | 2/100 | 10.00H |
| 7 | C 525 | IWA | 859 | IN Room 283 | 1.3/100 | 0725 | 1007 | 157 | 4 | 4 | 4 | 628 | 29/100 | 0.022 |
| | | | | | | <u> </u> | | | | | | | <u> </u> | |
| Recount Sa | mple # | c 523 | Recount | 5/100 | | - | | | - | | | | | |



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| Project Na | ame: Pierce Co | ollege Ol | lympic Sout | h Abatement and Repairs | · | , <u>, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u> | WEATH | ER/TEMP | : | Comme | nts: | | | |
|--------------|--|------------------|---------------|---|------------------|---|-------------|------------|--------------|-----------------|----------------|-------------|--------------|---|
| Project No | o.: 40535.488 | | | I.H. Cameron Bodnick | 1 | | 50 | °F | | | | | | |
| Location: I | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICAL METI | | | Rai | nu | | | | | | |
| Contracto | r: Dickson | | | NI 05 P 7400 | | | | (| | | | | | |
| Client: DE | S | | | | | | | | | | | | | |
| | ISHED BY (SI | GN.): | DATE/TIN | 1E: | ANALYZE | D BY: | mal | | DATE/ | TIME: | ·. | TWA: | | · |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | ANALYZE | | 1/ | | DATE/ | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUM (526 B | | Α | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | * · · · · · · · · · · · · · · · · · · · |
| DATE | 4 | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FiB | FIB |
| 11/0/0 | | 12 | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 11/12/21 | C527 | B | | Field Blank | 1 | | | | | | | | 0/100 | |
| 11/12/21 | | H | 089 | 2017 | | 6:52 | 1:59 | 127 | | 2.2 | 12 | 020 | 21 | |
| | C529 | Н | | | | 6:59 | 157 | 427 | 2.2 | | | 939 | | 40,004 |
| | ¢530 | H | HV135 6109 | | | 6:57 | 2:05 | | 2.4 | 4 2.4 | 4 | 1672 | 3/100 | 40,004 |
| 1/12/21 | - | | 090 | NVSt Starcase Hera 2. Ext 284 HERA 3 | - | <u> </u> | + | 422 | 2.6 | | 2.6 | | 5.5/100 | ł |
| | C532 | [-] | | 4 6 | 1 | 7:00 | 2.02 | | 4 | 2.6 | 4 | 1097 | 4/100 | 40.004 |
| | 1533 | 14 | 1698 HV30A | Rof NAUZ | | 7:10 | | 403 | 4 | 43 | 4 | · | /100 | 0.001 |
| 1/12/21 | + | DWA. | HVISS | Roof NAO3: 1st floor Descri Entry: | 1 | 7:10 7:16 | 1:54 | 404 | | 4 | | 1616 | 1 | 1 |
| | (535 | | 4504 | 1.10 | <u> </u> | | + | 412 156 | 4 | 4 | 4 | 1648 | 9/100 | 0.002 |
| | 4 | MA AW | 8297 | Lyf flostairs Oly S. | | 7:40 | 10:16 | 343 | <u> </u> | 4 | | 624 | 11/160 | 0.009 |
| | (557 | | 211607 | 30 fl ext 331 | | 8:04 | 1:47 | 195 | 4 | 4 | 4 | 1372 780 | 12/100 | |
| 1(1 - 5 - 5) | | IWA | 2,1.007 | 1 00 1 CX 32 | | 8:15 | 11.30 | 1175 | | 4 | - | 180 | 4/100 | 0.006 |
| | | | | | | | | | | | | | | |
| | | | | | | - | | | | - | | | | |
| Recount S | Sample # 53 7 | | Recount | 310 FI Ex 331 0.066 | | | | | | | | | | 0,006 |



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| Project Na | roject Name: Pierce College Olympic Sol roject No.: 40535.488 | | | n Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | ents: | | | |
|----------------|--|--------|----------|---|------------------|---------------------------------|-------|---------|----------|-----------------|-------------|--------------|---------|-------|
| Project No | .: 40535.488 | | | I.H. Comeron Buda | ick | | ے ا | 500 / | ير | | | | | |
| Location: L | akewood, W | Д | | SAMPLE MEDIA/ANALYTICAL ME | | | | Rain | | | | | | |
| Contractor | : Dickson | | | NI05H 7400 | | | | 1-4171 | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | E: | ANALYZEI | BY: | herry | a de | DATE | IME: | - | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | E: | ANALYZED | D BY: | my | 7 | DATE/1 | | | | | |
| | P PERSO IWA INSID OWA OUTSI | E AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LĒ | GBA H | GLOVE I HEPA | BAG AR | ĒĀ | <u></u> | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| دیا ہا۔ | NUMBER | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 4/15/21 | C538 | 3 | NA | | | | | | | | | f | 0/100 | |
| - \ | C539 | ß | NA | | | | | | | | | | D /100 | |
| \- | | | | 3rd Fl. Clean Rm | 0/100 | | 12:37 | | 10 | 10 | 10 | 1200 | 10/100 | 0.004 |
| \ | C 541 | H | | hoof NAO4 | 0/100 | 7:00 | 1:39 | 399 | 4 | 4 | 4 | 1596 | 6/100 | 0.002 |
| | C 542 | Н | 1698 | Boof NAOS | 0/100 | 7:02 | 1:40 | 398 | 4 | 4 | 4 | 1592 | 1/100 | 0.002 |
| | | | HU 1834 | 1st floor | 0/100 | 7:05 | | 408 | 4 | 4 | 4 | | 11 /100 | 0.003 |
| | <u> </u> | | | ECE #1 | 0/100 | 7:11 | 1:44 | 393 | 4 | 4 | 4 | 1572 | 6.5/100 | 0.002 |
| | 6545 | | 8297 | 2-nd fl. badout | 0/100 | 7:16 | 1:56 | 400 | 4 | 4 | 4 | 1600 | 12/100 | 0.004 |
| | C546 | AWI | 211607 | 3rd fl IWA 550 (oridor | | 7:22 | 10:42 | 200 | 4 | 4 | 4 | 800 | 14 /100 | 0.008 |
| | <u>c547</u> | | 8504 | 2nd fliw 4 @ 164 corridor | 0/100 | 7:38 | 12:05 | 267 | 4 | 4 | 4 | 1068 | 9 /100 | 0,004 |
| | C549 | Н | 090 | n-Staillase HEPA 1 | 0/100 | 8:10 | :49 | 339 | 2.6 | 2.6 | 2.6 | 8 8 1 | 1/100 | |
| / | C54,9 | H | 089 | Ext 284 HEPA 1 | 0/100 | | 1:50 | 336 | 2.0 | 2.0 | 20 | 672 | 2/100 | |
| | ८५५७ | H | 6109 | ext 183 HEPA 1 | | 8:20 | | 326 | 2.4 | | 2.4 | 782 | 5.5/100 | |
| 4 | (551 | AWO | 1696 | 24ti Old N | 0/100 | 8:29 | 1:35 | 306 | 4 | 4 | 4 | 1224 | 12/100 | |
| | | | | J | | | | | | | | | | |
| Recount Sa | mple# | =545 | Recount | 0.004 1/00 | | | | | | | | | | |



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| Project Na | me: Pierce C | ollege Ol | lympic Sou | th Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | ents: | | | |
|--|-------------------------|-----------|------------|---|------------------|----------------------------------|----------|---------|----------|-----------------|--------|--------------|-------------|----------|
| Project No | .: 40535.488 | | | I.H. Cameron B | Sud nick | 72.0 3.1 11.1 1 | 1 4 | ko 1 | 5 | | | | | |
| Location: L | akewood, W | Ά | | SAMPLE MEDIA/ANALYT | ICAL METHOD: | | " | | 90 | | | | | |
| Contractor | : Dickson | | | MJ05H 7400 | | | 1 | | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZE | D BY: | sh | | DATE/ | TIME: | , | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | AMALYZE | | 7 | | DATE/1 | | • | | | |
| CODES: | DATE SAMPLE NUMBER CODE | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 10/ | | 0 | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 11/16/21 | i | | | Field olank | | | | | | | | | 0/100 | <u> </u> |
| $\vdash \setminus$ | C563 | | | Sield blank | | (| 0.20 | 150 | | | | 8 | 0/100 | <u></u> |
| | (554 | IWA | -\V1838 | | 0/100 | 6:58 | 2:30 | 452 | 4 | 4 | 4 | 1008 | 1/100 | |
| ļ\ | C555 | OWA | 1696 | 3rd floor oly. w. | 0/100 | 7:03 | 2:02 | 419 | 4 | 4 | 4 | 1676 | 7/100 | 0.002 |
| | C556 | | 8504 | Infl ores course | | 7:07 | 9:47 | 160 | 4 | 4 | 4 | 640 | 5/100 | 0.004 |
| | C557 | H | 1698 | Roof-NAOI | 0/100 | 7:12 | 2:05 | 413 | 4 | 4 | 4 | 1652 | 8/100 | 0.002 |
| | <u> </u> | | HN30A | Koof-NAO2 | 0/100 | 7:14 | 2:05 | 411 | 4 | 4 | 4 | 1644 | 6/100 | 0.002 |
| | C55 4 | H | 090 | W. Stainase HEPA 1 | 0/100 | 7:24 | 2:15 | 411 | 2.7 | 2.7 | 2.7 | 1109 | 2/100 | <0.004 |
| *************************************** | C560 | H | 089 | Ext. 284 HEPA 2 | 0/100 | | 2:16 | 409 | 2 | 2 | 2 | 818 | 1.5/100 | 40.004 |
| Her 17200g | C561 | H | HV135 | ECE #2 | 0/100 | 7:32 | 2:09 | 397 | 4 | 4 | 4 | 1588 | 3/100 | · - |
| - | C562 | H | 6109 | Ext 283 HEPA3 | 0/100 | 7:34 | 1:12 | 398 | 2.4 | 24 | 24 | 955 | | 40.004 |
| | C563 | OWA | 8297 | 2nd fl loadast | 0/100 | 7:40 | 1:59 | 319 | 4 | 4 | 4 | 1276 | | 0.005 |
| 4 | C564 | Aust | 211607 | 318 FI IWA @ 331 C | phiga 0/100 | 7:48 | 10:44 | 176 | 4 | 4 | 4 | 704 | 11/100 | |
| | | | | | | | <u> </u> | | | | | | | |
| Recount Sa | ample # | c559 | Recount | 2/100 40.00 | 4 | | | | | | | | | |



214 E GALER STREET, SUITE 300 SEATTLE, WA 98102 206.233,939

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| Project Na | me: Pierce Co | llege Ol | ympic Sou | h Abatement and Repairs | | | l | ER/TEMP | : | Comme | nts: | | | |
|-------------|---|----------|-------------|---|------------------|---------------------------------|--------------|-------------|----------|-----------------|---------|-------|----------|-------------|
| Project No | .: 40535.488 | | | I.H. Cameron Bodnide | | | 39° | 1 | | | | | | |
| Location: I | akewood, W | 4 | | SAMPLE MEDIA/ANALYTICAL METI | HOD: | | | | | | | | | |
| Contractor | : Dickson | | | NI05H 7400 | | | | | | | | | | |
| Client: DES | ; | | | | | | MOSHI | i ciong | الما | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | IE: | ANALYZEI | BY: | |) | DATE/I | | | TWA: | | |
| | | | DATE/TIN | | AMALYZEI |) BY: | man | , | DATE/T | 3 /2 TME: | | | | |
| CODES: | DDES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUI 1/1/3 C565 C566 | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LĒ | GBA H | GLOVE E HEPA | BAG ARI | ĒA | <u> </u> | |
| DATE | | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 11.7 | | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 11/21 | | | | Field blanks | | | | | | | | | 9/100 | , |
| | | • | 11111000000 | Field blanks | <u> </u> | | | | | | | | D/100 | |
| | C566 C5G7 OWA HV 18-3 | | | 1st fl decon | 0/100 | 6:27 | | | 4 | 4 | 4 | 0,50 | nnecto | d void |
| | C568 | | | 2nd fl IWA | 0/100 | 1 | a:3a | 188 | 4 | 4 | 4 | | 7/100 | 0.005 |
| | C569 | OWA | • | 3rd fl ay N. | 0/100 | 6:48 | 1 | 422 | 4 | 4 | 4 | 1688 | 7/100 | 0.062 |
| | C570 | | 4030A | Bust-NAUS | 0/100 | 6:56 | 1:53 | 417 | 4 | 4 | 4 | 1668 | 3/100 | < 0.004 |
| | C571 | 7 | 1698 | Boxt-NaO3 | 0/100 | 6:58 | 1:53 | 415 | 4 | 4 | 4 | 1660 | 9/100 | 0.003 |
| | C572 | H | 090 | W. Staircase Hega 3 | 6/100 | 7:03 | 1:57 | 414 | 2.4 | 2.4 | 24 | 993 | 7/100 | 0,003 |
| | C573 | H | 089 | Got 284 Hega 1 | 0/100 | 7:07 | 1 :00 | 413 | 2.2 | 2.2 | 2.2 | QB | 3/100 | 40.004 |
| | C574 | ¥ | H\\\\3S | ECE 1 | 0/100 | 7 :11 | 2.02 | 411 | 4 | 4 | 4 | 1644 | 4/100 | |
| | C575 | H | 6109 | Ext 283 Hega 1 | 0/100 | 7:17 | 2:05 | 408 | 2.6 | 2.6 | 2.6 | 1060 | 25/100 | 40.004 |
| | C576 | OWA | 82917 | 2nd fl landing | 0/100 | 7:20 | 1:46 | 386 | 4 | 4 | 4 | 1544 | 10/100 | 0.603 |
| | C577 | AWI | 211607 | Sidfl 331 corridor | 0/100 | 7:27 | 10.41 | 194 | 4 | 4 | 4 | 776 | 8/100 | 0.005 |
| | C578 | C | つり | 3ydfl Decon room | 0/100 | | 1:19 | 123 | 10 | O | 0 | 1230 | 7/100 | 0.003 |
| | C | 573 | | 2/100 60.004 | | | | · · | | | | | ,,,,, | |
| Recount Sa | mple # | | Recount | | | | | | | | | | | |



214 E GALER STREET, SUITE 300 SEATTLE, WA 98102 206.233,939

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| Project Na | ject Name: Pierce College Olympic Si ject No.: 40535.488 | | | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | ents: | | | |
|-------------|--|-----|----------|---|------------------|----------------------------------|-------|----------------|----------|---------------|--------|----------|---------|--------|
| Project No | .: 40535.488 | | | I.H. T. NGUYEN | | | Cla | .1 [| 2 , | | | | | |
| Location: L | akewood, W | A | | SAMPLE MEDIA/ANALYTICAL METH | IOD: | | (10 | uel - F 3'S | Chn | | | | | |
| Contractor | : Dickson | | | NIOSH 7400 | | | 50 | 5'5 | | | | | | |
| Client: DES | | | | - N_OJH 7(00 | | | | | | | | | | |
| | SHED BY (SI | | DATE/TIM | ie: 19/21 | ANALYZE | D BY: | unh | | DATE | FIME: | | TWA: | | |
| | BY (SIGN.): | | DATE/TIM | IE: | ANALYZE | D BY: | my | | DATE/ | | | | | |
| CODES: | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 14/21 C579 H 069 C560 TWA 5564 | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE HEPA | BAG AR | EA | | |
| DATE | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA PATE SAMPLE NUMBER CODE PUMP 18/21 C579 H 089 C581 OWA 5297 | | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 11 halas | | 11 | 760 | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 11/15/4 | | | | Ext 0284 - HEPA 2nd Fl 264 Covider | %100 | 6701 | 1403 | 422 | 2.4 | 2.4 | 2.4 | 1012.82 | /100 | 40,004 |
| | | | | | 1100 | 0652 | 1202 | 310 | 4 | 4 | 4 | | 27/100 | 0.01 |
| - | | | | 2nd Fl OLYS landing | %100 | 0717 | 1350 | 393 | 4 | 4 | 4 | 1572 | 6/100 | 0.002 |
| | 0582 | | | 3rd Fl OLY N | 0/100 | 0707 | 1407 | 426 | 4 | 4 | 4 | 16401 | 500/100 | 0.001 |
| | C583 | TWA | 211607 | 3rd Fl CLY 5 SBOXO7 | 6/100 | 0722 | 1100 | 302 | 4 | 4 | 4 | 12066 | 7/100 | 0,003 |
| | 0584 | 1 | 090 | W. Staircase - HEPA est. #1 | 1.00 | 0656 | 1401 | 425 | 2.4 | 2.4 | 2,4 | 10201 | | |
| - | C585 | # | 6109 | Exterior-025 - HEPA esh. #3 | 1100 | 0650 | 1356 | 426 | 2.4 | 2.4 | 2.4 | 10.22.41 | 2,5/100 | 40.004 |
| | 0586 | # | 1698 | HEPA-NAO2 | 0/100 | 6712 | 1411 | 419 | 4 | 4 | 4 | 16762 | | 40.002 |
| | U587 | OWA | HV18-30 | | 0/100 | 0645 | 1342 | 417 | 4 | 4 | 4 | 1668L | 8/160 | 0.002 |
| | C538 | Ħ | HV30,A | HEPA-NAO4 | 0/100 | 0711 | 1410 | 421 | 4 | 4 | 4 | 16842 | 5/100 | 0.001 |
| | C589 | H | HV-135 | ECE HEPA exh. # 2 | 0/100 | 0654 | 1359 | 425 | 4 | 4 | 4 | 1700L | 6/100 | 0.062 |
| | 05010 | B | / | Field blank 1 | | _ | / | | | / | / | | 0/100 | |
| | 0591 | B | | Field blank 2 | | _ | / | _ | / | / | | | 0/100 | |
| V | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Recount Sa | ample # | | Recount | | 1 | 1 | | | | | | | | |



214 E GALER STREET, SUITE 300 5EATTLE, WA 98102 206,233,939

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| Project Na | roject No.: 40535.488 | | | n Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | ents: | | | |
|------------|--|-------------|----------|---|------------------|-----------------------------------|---|---------|----------|-----------------|--------|--------|----------|---------|
| Project No | o.: 40535.488 | | | I.H. Peter Stensloro |) | | 1 | | | | | | | |
| Location: | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICAL ME | THOD: | | | | | | | | | |
| Contracto | r. Dickson | | | NIOSH 740 | | | | | | | | | | |
| Client: DE | S | | | 10 10 00 | | | | | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TIM | 1E: 9/2 | MYRE PW. | D BY; | M | m.A. | DATE/I | TIME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | 1E: | ANALYZEI | D BY: (| \(\frac{1}{2}\) | | DATE/ | | | | | |
| CODES: | DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE RUMBER CODE PUMP V19 C592 B C593 B C594 H 089 | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARANG | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | 1 | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| <u> </u> | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER 19 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | сс |
| 11/19 | | | | Blank | 1.5/00 | | | | | | | | 2/100 | |
| | | | | Blank | | | | | | | | | 1/100 | |
| | C594 | H | 089 | 283 Frans+ #3 | | 6:40 | 2:10 | 450 | 23 | 2,3 | 2.3 | 1,0 35 | 7.5/100 | 0.005 |
| | C595 | H | 090 | West Stairs Exhaust #1 | | 6:42 | 1:40 | 418 | 2.8 | 2.8 | 2.8 | 1170 | 13,5/100 | 0.005 |
| L | C596 | <u>H</u> | 6109 | 284 Erawl # 3 | | 6:43 | 1:40 | 417 | 2.4 | 2.4 | 2.4 | icci | 1.5/100 | (0.004 |
| lacksquare | C597 | OWA | 696 | Oly N Corridor | | 6:51 | 1:57 | 420 | 4 | 4 | 4 | 1,704 | 7/100 | (0.003 |
| | C598 | 1 | HV30A | ROOF NAUS | | 6:56 | 1:54 | 418 | 4 | 4 | 4 | 1672 | 12/100 | 0.003 |
| | C599 | H | 1698 | Kal NAO3 | | 6:56 | 1:53 | 417 | 4 | Н | 4 | (488) | 11 F/ | 0.004 |
| | C600 | 14 | 1411-135 | ECE #1 | | 7:00 | 2:00 | 420 | 4 | 4 | 4 | 1680 | 10.5/ | 40.003 |
| | C601 | OWL | 41/8-38 | Oly S Ist How Clans | m | 7:05 | 2:05 | 420 | 4 | 4 | 4 | 1680 | 177 | 0.004 |
| | <u>C602</u> | IMA. | 8504 | Ray 283 | | 7:28 | 10:48 | 200 | Ч | 4 | 4 | 800 | 56/100 | 0.033 |
| | C603 | OWA | 70 | 3rd floor Beron Entrance | e l | 7:29 | 10:50 | 201 | 3 | 3 | 3 | 603 | | 60.005 |
| | C604 | OWA | 8297 | 2nd Herr landing | | 7:43 | 1:45 | 362 | Н | Ý | 4 | 1448 | 10/100 | 0.003 |
| ₩ | CG05 | IWI | 211607 | 3rd floor 331 carril | ar J | 7:45 | | 3 63 1 | 3 | 3 | 3 | 540 | 9/100 | 0.007 |
| | | | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | - 1 | _ | | | | 7,50 | 0 .00 1 |
| Recount Sa | ample# | 597 | Recount | 5/160 | | <u> </u> | | | | | | | | |
| | | | | | | | | | | | | 4 | · | |



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| Project Na | me: Pierce Co | ollege Ol | lympic Sou | th Abatement and Repairs | | _ | WEATH | ER/TEMP | : | Comme | nts: | · · · · · · · · · · · · · · · · · · · | <u></u> | |
|-------------|--|-----------|--------------|-----------------------------------|---------------------|-----------------------|-------------|---------------|----------|-----------------|--------|---------------------------------------|------------------|----------|
| Project No | o.: 40535.488 | | | I.H. PETER STENSLAN | D C | | | | | | | | | |
| Location: I | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICAL MET | | | | | | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DE | 5 | | ***** | | | | | | | | | | | |
| | SHED BY (SI | GN.): | DATE/TII | ME: | ANALYZEI Mike So | | 1.00 | (mX) | DATE/ | TIME: 24/2/ | | TWA: | - | <u> </u> |
| RECEIVED | BY (SIGN.): | | DATE/Til | ME: | ANALYZEI | | <u> </u> | Υ*** | DATE/ | | | | | |
| CODES: | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMI OCTO CLOCO B | | Α | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA . | | |
| DATE | | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | DDF | FLOW | 1 41/6 | TOTAL | FIB | FIB |
| Ctoto | | R | | FIELD BLANK | AVG | ON | OFF | TIVIE | PRE | POST | AVG | VOL | FLD ○/100 | cc |
| 11/22 | | | - | FIELD BLANK | | | | | | | | | 2/100 | |
| / | C608 | Н | 090 | ROOM 283, EXHAUST #2 | 0/100 | 0737 | 1445 | 428 | 3 | 3 | 3 | 1284 | 2/100 | 40.004 |
| | c609 | Н | HV135 | | | 0440 | 1425 | | 4 | 4 | 4 | 1620 | | 40.003 |
| | C610 | Н | 089 | ROOM 284, EXHAUST #2 | 0/100 | | 1426 | 401 | 2-1 | 2-1 | 21 | 842 | | (0.005 |
| | C611 | 1-1 | 6109 | W. STAIRCASE EXHAUST #4 | | 0747 | 1427 | 400 | 2-4 | 2-4 | 2.4 | 960 | %00 | (0.004 |
| | 1 | OWA | | OLY. N. CORRIDOR | 0/100 | 0755 | 1440 | 405 | Ч | 4 | 4 | 1620 | | ⟨0.∞3 |
| | C613 | H | | ROOF NEG. AIRHOI | 0/100 | 0803 | 1434 | | 나 | 4 | 4 | 1564 | 1/100 | 40.003 |
| | C614 | H | 1698 | POOF NEG. AIR #02 | 0/100 | 0804 | 1434 | 390 | 4 | 4 | 4 | | 2/100 | 40,003 |
| | C615 | owA | HV 18-38 | OLYS. 15 FL CLEAN ROOM | 0/100 | 0811 | 1420 | 369 | 3 | 3 | 3 | 1107 | 2-5/10C | 40.004 |
| | | owA | 8297 | ory 5. 200 FL LANDING | 0/100 | 0815 | 1420 | 365 | 4 | 4 | Ч | 1460 | 700 | 6.003 |
| | | | | oly 5. 3 fl - 5 BOX - 07 | | 0828 | 1250 | 262 | 4 | 4 | 4 | 1048 | 8.3/100 | 0.004 |
| 1.1 | C618 | IWA | 8904 | Room 283 | 0/100 | 1135 | 1425 | 170 | 4 | 4 | 4 | <u>08</u> 2 | 400 | 0.003 |
| | | <u> </u> | | | | <u> </u> | | | | <u> </u> | | | | |
| Recount Sa | ample # | رروا/ | Recount | 2/100 | | | | | | | | | | |



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| Project Na | roject Name: Pierce College Olympic S roject No.: 40535.488 | | | th Abatement and Repairs | | | WEATH | IER/TEMP | : | Comme | ents: | *************************************** | <u> </u> | |
|-------------|--|------|----------|---|---------------------|----------------------------------|-------------|----------|----------|-----------------|-----------|---|--------------|--------|
| Project No | o.: 40535.488 | | | I.H. PETER STENSLA | 7 D | | 1 | | | | | | | |
| Location: I | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICAL METI | | | | | | | | | | |
| Contractor | r: Dickson | | | MIOSH 7400 | | | | | | | | | | |
| Client: DES | 5 | | | | | | | 1. | | | | | | |
| | SHED BY (SI | | DATE/TIM | ΛE: | ANALYZEI MIKE SI | | L. K. | | DATE/I | TIME: 4 21 | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | | | | DATE/1 | | | | | |
| | DATE SAMPLE NUMBER 23/21 C6/20 | | Α | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | 'LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | 6 | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 11/20/21 | | 3 | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | сс |
| | | | | FIELD BLANK | - | | | | | | | | 1/100 | |
| / | | B | | FIELD BLANK | | | | | <u> </u> | <u> </u> | | | 9/100 | |
| <u> </u> | | H | 090 | W. STAIRCASE HEPA#2 | .5/100 | 0638 | 1421 | 463 | 2.2 | 2-2 | 2-2 | 1019 | 1/100 | K0.004 |
| | C622 | 1-4 | 097 | EXTEROOM 284 HEPA #3 | .5/100 | 0641 | 1427 | 466 | 2.6 | 2.6 | 2.6 | 1212 | 1/100 | 40.004 |
| | C 623 | 1-7 | HV135 | ECE, HEPA #I | 3/100 | 0645 | 1417 | 452 | 4 | 4 | 4 | 1808 | 2/100 | KD.002 |
| | C624 | H | 3055 | (ExT) @ROOM 283, HEPA#3 | -5/100 | 0648 | 1418 | 450 | 2.0 | 2.0 | 2.0 | 900 | 0/100 | KD.004 |
| | | οωA | 1696 | OLY 5 NORTH COPRIDOR | .5/100 | 0652 | 1403 | | 4 | 4 | 4 | 1724 | 7-5/100 | 0.002 |
| | C626 | 1-1 | A OEVH | Roof NEG AIR OS | .5/100 | 0655 | | 438 | 4 | 4 | Ц | 1752 | 1/100 | (0.002 |
| | C627 | IWA | 0504 | Room 283 | | 0655 | 1110 | | 4 | Ц | Ч | | ERLOA | DED |
| | C 628 | 14 | 1698 | ROOF NEG AIR #04 | | 0657 | 1413 | 436 | Ч | 4 | u | 1744 | | K0.002 |
| | C629 | οωA | 8297 | 2 to @ LGADOUT | | 0703 | | | 4 | Ч | U | | 5/100 | <0.003 |
| __ | C630 | IWA | 211607 | 3 ^{CA} FL IN WORK AREA | -5/100 | 0712 | | 190 | 4 | 4 | 4 | 760 | 8/100 | 0.005 |
| 7 | | | | | | | | | | *** | , · · · · | | | |
| | | | | | | | | |] | | | | | |
| | | | | | | | | | | | | | | |
| Recount Sa | mple # | C630 | Recount | 1/100 | | | | | | | | | | |



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| Project Na | me: Pierce Co | ollege OI | ympic Sout | th Abatement and Repairs | | | WEATH | ER/TEMP: | : | Comme | nts: | | | |
|---|--|--------------|-------------|---|-----------------------|----------------------------------|-------|---------------|----------|-----------------|---------|-------|---------|----------|
| Project No | o.: 40535,488 | <u> </u> | | 1.H. Peter Stensland | 9 | J | | | | | | | | |
| Location: I | akewood, W | A | | SAMPLE MEDIA/ANALYTICA | | | 1 | | | | | | | |
| Contracto | r: Dickson | | ···· | NIOSH 7400 | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| *************************************** | SHED BY (SI | | | | ANALYZED MIKE SONT | | | \mathcal{A} | DATE/T | IME: 0/202 | _/ | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | | | · · | DATE/T | | | | | |
| CODES: | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PU 24 C631 B | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | -E | GBA H | GLOVE E HEPA | BAG ARI | Ā | | |
| DATE | i . | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | 777 | TOTAL | FiB | FIB |
| \$ h | | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 11/24 | | | | Blank | | | | | | | | / | 100 | |
| | | | | Blank | | | | | | | | | 0/100 | |
| | ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OWA HV8-3 C634 H O97 C638 H O97 C638 H O90 C639 IVA 8504 | | | Oly N Corridor | %100 | 6:35 | 11:41 | 306 | 5 | 5 | 5 | 1530 | 2/100 | L0.003 |
| | <u> </u> | · | | Roof - NAO2 | 9/100 | 6:41 | 11:44 | <u>303</u> | 5 | 5 | 5 | 1515 | .5/100 | <u> </u> |
| | | | HV36/4 | 1 Roof - 1/4 03 | 1/100 | 6:42 | 11:44 | 362 | 5 | 5 | 5 | 1510 | 100 | ⟨०.003 |
| | C636 | | | 7 | 9/100 | 6:47 | 12:03 | 316 | 5 | 5 | 5 | 1280 | 11/100 | 0.003 |
| | C637 | | | 284 Exhaust #1 | 0/100 | 6:56 | 11:38 | 282 | 3.2 | 3.2 | 3.2 | 902 | 0/100 | 40.004 |
| | | | · · · · · · | W Stargase # 1 | 1/100 | 6:57 | 11:37 | 280 | 3 | 3 | 3 | 840 | 1 1 / I | 40.004 |
| | . , | | | 283 Ocernay | 0/100 | 6:57 | 9:34 | 157 | 4 | 4 | 4 | 628 | OUER | COAP |
| | <i>C</i> 640 | | HV135 | ECE #1 | 0/100 | 6:58 | 11:36 | 278 | S | 5 | خ | 1390 | 1/100_ | C0.004 |
| - | C641 | H | 3055 | 283 Exhaust #1 | 0/100 | 7:∞ | 11:33 | 273 | 3 | 3 | 3 | 819 | 0/100 | <0.004 |
| \ <u></u> | C642 | OWA | 8297 | 2nd Floor stor landing | 0/100 | 7:05 | 11:47 | 282 | 5 | 5 | 5 | 17101 | \$100 | 40.003 |
| | 6643 | IWA | 211607 | 3rd Floor | 2/100 | 7:10 | 10:38 | 208 | 5 | 5 | 5 | 1,040 | 8/100 | 0.004 |
| | | | | | | | | | | | | | | |
| Recount S | ample # | C 6360 | Recount | 12.5/100 | | | | | | | | | | |



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| Project Na | oject Name: Pierce College Olympic Soloject No.: 40535.488 | | | th Abatement and Repairs | | | WEATH | ER/TEMP | | Comme | nts: | | | |
|-------------|---|-------|----------|---|--------------------|-----------------------|-------|---------|----------|-----------------|---------|----------------------|--------|--------|
| Project No | .: 40535.488 | | | I.H. PETER STENSLI | and Gub | | 50 | 5 - R | AIN | | | | | |
| Location: l | akewood, W | 4 | | SAMPLE MEDIA/ANALYTICA | L METHOD: | | | • | | | | | | |
| Contractor | : Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | | | | | | | | | | l | | | | |
| RELINQUI | SHED BY (SI | GN.): | | | ANALYZED MIKE S | | 1 100 | 19 | DATE/I | IME: | 21 | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | | | | DATE/1 | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE ARE DATE SAMPLE NUMBER CODE COULT | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION | N | LE | GBA H | GLOVE E HEPA | BAG ARI | EA | | |
| DATE | | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 11 / / | | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 1/29/21 | CO44 | ठ | | FIELD BLANK | | | | | | | | \rightleftharpoons | 1/100 | |
| _/ | C645 | 13 | | FIELD BLANK | | | | | | | | > | 9/100 | _ |
| | CG46 | AWO | 1196 | 3 FL @ OLY N. | .5/100 | 0650 | 1410 | 440 | 4 | 4 | 4 | 1760 | 2/100 | 40.003 |
| | C647 | Н | HV36A | ROOF NEG AIR #05 | .5/100 | 0657 | 1414 | 437 | 4 | 4 | Ч | 1748 | 0/100 | <0.003 |
| | C648 | OWA | HV18-38 | LV. 1 CLEAN ROOM | 15/100 | 0700 | 1425 | 445 | 4 | ч | ų. | 1780 | 12/100 | 0.003 |
| | C649 | IWA | 8504 | 300 fl - Room 283 | -5/00 | 0715 | 1145 | 270 | 4 | 4 | 4 | 1080 | OVED | LOAD |
| | C650 | 4_ | 090 | WEST STANCASE EXHAUST | 15/100 | F170 | 1406 | 409 | 2 | 2 | 2_ | 818 | 0/100 | 40.004 |
| | C651 | Н | 097 | (EXT) EXHAUST @ 284(3) | 15/100 | 0719 | 1408 | 469 | 2 | 2 | 2 | 818 | 1/100 | <0.004 |
| | C652 | H | HVI3S | ECE EXHAUST#3 | -5/100 | 0722 | 1404 | 402 | 4 | 4 | 4 | 1608 | 1/100 | 10.003 |
| | C453 | 7 | 3055 | (EXT) EXHAUST@ 283 | .5/100 | 0728 | | 394 | 2 | 2 | 2 | 788 | _ | 20.005 |
| | (654 | чω | | | .5/100 | 0730 | | 390 | 4 | 4 | 4 | | | ⟨0.003 |
| N . | C655 | IWA | 211607 | 312 FL SE SIDE | 5/100 | 0740 | 1103 | 203 | 4 | 4 | 4 | 812 | ,,,,, | 10.004 |
| | | | | | | | | | | - | , | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Recount S | ample # | ces/ | Recount | %100 | | | | | | | | | | |



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| Project Na | oject Name: Pierce College Olympic Sc oject No.: 40535.488 | | | th Abatement and Repairs | | | | ER/TEMP | | Comme | nts: | | | |
|-----------------------|---|----------------|----------|---|---------------------|---------------------------------|------|----------|----------|-----------------|--------|-------|---|---------|
| Project No | o.: 40535.488 | | | I.H. PETER STE | NSLAI | VB | | R 50 | | | | | | |
| Location: | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICA | | | " | RA | <i>~</i> | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DE: | s | | | | | | | | | | | | | |
| | ISHED BY (SI | | | | ANALYZEI MikeS | D BY: | MI | RAN | DATE/1 | IME: | | TWA: | , <u>, , , , , , , , , , , , , , , , , , </u> | |
| RECEIVED | BY (SIGN.): | ,, | DATE/TIN | ME: | ANALYZEI | D BY: | | | DATE/1 | IME: | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUN 30 C656 13 - | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | ĒA | | |
| DATE | B . | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 11/21 | | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 1730 | | B_ | | FIELD BLANK | | | | <u> </u> | | | | | %00 | |
| <u> </u> | C657 | B | | FIELD BLANK | | | | | | | | | 1/100 | |
| | C658 | H | 094 | (EXT) @ 283, EXHAUST 4 | 15/100 | ०७५६ | 1345 | 420 | 2 | 2 | 2 | 840 | 2/100 | 400.024 |
| $\sqcup \!\!\! \perp$ | C659 | Н | HV138 | ECE, EXHAUST 4 | 1.5/100 | 0651 | 1339 | 408 | 4 | 4 | 4 | 1632 | 0.5/10 | (0.003 |
| | C660 | H | l . ! | W. STAIR, EXHAUST I | 1 · (- / | 0655 | 1348 | 413 | 2 | 2 | 2 | 826 | 3.5/100 | , 1 |
| | C661 | H | l ' | EXT) 0 284 EXHAUST 4 | 1100 | 0657 | 1350 | I | 2-1 | 201 | 2.1 | 867 | 6/100 | 40.004 |
| | C(do2 | H | 1698 | | 1 .57 | 0715 | 1405 | 410 | Ч | Ч | ц | 1640 | 1/100 | 40.003 |
| | C663 | OWA | ivalo | N COPRIDOR @ DYS | 1 ** / | 0717 | 1402 | 405 | Ч | 4 | Ч | 1620 | 13/100 | 0.004 |
| | Ccdo4 | H | | ROOF-NEG AIR 07 | 5/100 | 0719 | 1405 | 406 | 4 | 4 | ¥ | 1624 | IAO # | (0.003 |
| | CCCCS | ميه | | LVI, OUTSIDE CLEAN RE | 15/100 | 0725 | 1 | | щ | ч | 니 | 1500 | | 0.003 |
| | | 1 | _ | LV2, OUTSIDE CLEAN RM | · | 0728 | 1 - | 385 | 니 | 4 | 4 | 1240 | | <0.003 |
| | | | | 045 SBOK 07 | | 0800 | | | 5 | 5 | 5 | 1200 | 77 | 10.004 |
| 731 | CLOGS | | 8504 | | | 0741 | 1131 | 230 | 4 | Ч | 4 | 920 | | LOAD |
| | C669 | INA | 089 | WALLER PIT, HVAC DEMO | | 0937 | 1413 | 276 | 3 | 3 | 3 | | | 40.004 |
| | | | | | | | | | | | | . , , | 7.00 | 1 |
| Recount S | ample # | ctole3 | Recount | 11.5/100 | | | | | | | | | | |



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| Project Na | roject Name: Pierce College Olympic S roject No.: 40535.488 | | | th Abatement and Repairs | | | WEATH | ER/TEMP: | i | Comme | nts: | | | |
|---------------|---|-------|----------|---|------------------|----------------------------------|-------|------------|-------------------------|-----------------|---------|-------------|-------------|---------------|
| Project No | .: 40535.488 | | | I.H. PETER STENSLA | ant) | | රා | */- | | | | | | |
| Location: I | akewood, W | A | | SAMPLE MEDIA/ANALYTICA | AL METHOD | • | | ينر صه | VDY | | | | | |
| Contracto | r: Dickson | | · | NIOSH 7400 | | | | • | į | | | | | |
| Client: DES | 5 | | - | | | | | | | | | | | |
| RELINQU | SHED BY (SI | GN.): | | | ANALYZE | | 7/ | 11 | DATE/1 | | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZEI | | hot | 1 2 | / <u>人</u> // DATE/1 | /2 IME: | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE ARE | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANG | N | LE | GBA H | GLOVE E HEPA | BAG ARI | A | | |
| DATE | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CUTO B | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 12//21 | SAMPLE NUMBER CODE PUMP CGTO B - CGTI B - CGT2 OWA HV/8-35 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 1./21 | OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP ACT CGTO B - FIELD CGTO B - FIELD CGTO B - FIELD CGTO B - FIELD CGTO B - FIELD CGTO B - FIELD | | | FIELD BLANK | <u> </u> | | | | | | | | 9/100 | (|
| - | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP AC CGTO B FIELD CGT2 OWA HVI8-38 LVL 1 CGT3 OWA 1696 LV 3 CGT4 H HV3DA ROOF | | | FIELD BLANK | - | | | | | | | <u> </u> | 0/100 | |
| -+ | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE NUMBER CG70 CG71 CG72 CG73 CG74 H Hv30 CG74 CG74 H Hv30 CG74 CG77 H 097 CG77 CG77 H 097 CG78 H 3055 | | | | 1 | <i>©63</i> 3 | | _ | 4 | 4 | 4 | 1820 | | Co.002 |
| | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CUTO | | | | 1 . | 0635 | 1405 | 450 | 4 | 4 | 4 | 1800 | 4100 | 40.002 |
| | | H | | ROOF NEG AIR #08 | 1 | 0640 | 1401 | 441 | 4 | 4 | 4 | 1764 | 0/100 | 6.002 |
| | | 4 | | ROOF NEG AIR 03 | | 0644 | 1402 | 438 | 4_ | 4 | 4 | 1752 | 1/100 | 40.003 |
| | | Ħ_ | | W. STANCASE HEPA #2 | 0/100 | 0647 | 1416 | 449 | 4 | 4 | 4 | 1796 | 2/100 | 60003 |
| | C 677 | H | ०१५ | (EXT) 284 HEPA # 2 | 100 | 0651 | 1418 | 447 | 4 | 4 | 4 | 1788 | 2/100 | 10.002 |
| | C678 | 머 | 3055 | (EXT) 283 HEPA #2 | 2/100 | 0652 | 1414 | 442 | 2 | 2 | ٤ | 884 | 0/100 | <0.005 |
| | C679 | H | HV135 | ECE, HEPA # I | 9100 | 0654 | 1412 | 438 | 4 | 4 | 4 | 1752 | | <0.003 |
| | C680 | IWA | 8504 | Room 283 | 1/100 | 0656 | 0956 | 180 | 4 | 4 | 4 | 720 | OVER | paded |
| | C681 | ou A | 8297 | 2nd fle LOADOUT | 1/100 | 0700 | 1422 | 442 | 4 | 4 | 4 | - 1 | ~ / | 0.004 |
| | C 682 | IWA | 211607 | | 100 | 0706 | 1234 | 328 | 4 | Ŋ | -4 | 1312 | 8/100 | 600.o |
| | c483 | AUL | 6113 | WELLER PIT | 0/100 | 083b | - 1 | | 2.6 | 2.6 | 2.4 | | -/ · | 60.02 |
| <u> </u> | C 684 | INA | 4173 | WELLER PIT | T 7 7 | | 0942 | 62 | 10 | 10 | 10 | 620 | ~/. | <0.006 |
| Recount Sa | ample# | C682 | Recount | 6.3/100 | | | | | | | | | | |



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| Project Na | ame: Pierce Co | ollege Ol | ympic Sou | th Abatement and Repairs | | | WEATH | ER/TEMP | • | Comme | nts: | · · · · · · · · · · · · · · · · · · · | | |
|----------------|---|----------------------|-----------|-----------------------------------|--------------------|--|----------|---------|----------|-----------------|--------|---------------------------------------|----------|---------|
| Project No | o.: 40535,488 | | | I.H. PETER STEN | SLAN IN | | | 10'5 | | | | | | |
| Location: | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICA | L METHOD | • | PA | eary C | Louby | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | S | | | | | | | | | | | | | |
| - | | GN.): | | | ANALYZEI Mike S | | <u> </u> | ••• | DATE/ | IME: | | TWA: | <u> </u> | |
| RECEIVED | BY (SIGN.): | · · · | DATE/TIN | ΛE: | | | | | DATE/ | IME: | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP 21 C685 B | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | EXCURSIO | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | actor: Dickson DES IQUISHED BY (SIGN.): IVED BY (SIGN.): DATE/ IVED BY (SIGN.): DATE/ IVED BY (SIGN.): DATE/ IVED BY (SIGN.): DATE/ IVED BY (SIGN.): DATE/ IVED BY (SIGN.): DATE/ CASO PUMI CASO COSS | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FiB | FIB |
| 12/2/21 | P PERSONAL C CLEARANCE PRE PRE-ABATEMENT IWA INSIDE AREA A AMBIENT AIR EX EXCURSION OWA OUTSIDE AREA B BLANK TEM CLEARANCE SAM SAMPLE NUMBER CODE PUMP LOCATION ACTIVITY / PERSON AVG ON OFF CG85 B - FIELD BLANK ON OFF CG87 BWA 1696 32 FL - CORRIDOR N - 100 0626 1408 CG88 H HV30A ROOF - NEG AIR 07 9/100 0633 1412 CG89 H 1698 ROOF - NEG AIR 07 9/100 0634 1418 | | | | | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС | |
| /=/6-1 | 1 | | - | FIELD BLANK FIELD BLANK | | | | | <u> </u> | | | -> | %00 | |
| | | C686 B FIELD BLANK | | | | | 1408 | 462 | 4 | 4 | ч | 1848 | 3/100 | 50.002 |
| | | | | | | | 1412 | 459 | 4 | 4 | 4 | 1836 | 2/100 | 40.002 |
| | C689 | 1+ | | • | | 1 | 1414 | 460 | 4 | 4 | 4 | 1840 | 1/100 | 40.002 |
| | | H | 090 | W. SPAW EXHAUST OI | 1 . / | 0640 | 1403 | 443 | 2 | Ż. | 2 | | | 40.004 |
| | C691 | AWI | 8504 | 314 FL - Room 283 | | 0640 | 0908 | 148 | 4 | 4 | 4 | 592 | OVER | CAD |
| . | | | ०१म | (EXT)@ 284, EXHAUST I | 9/100 | 0641 | 1401 | 440 | 2 | 2 | 2 | 880 | 1100 | <0.004 |
| \ | C693 | H | HV135 | | 9/100 | 0647 | 1359 | 432 | 4 | 4 | 4 | 1728 | | <0.∞3 |
| \ | | | 8297 | | | 0651 | 1354 | 423 | 4 | Ų | 4 | 1692 | 17/100 | |
| \overline{V} | C695 | | | LU3 - 5W IN MOLK ARE | | | 1140 | 284 | 4 | 4 | 4 | 1,136 | 1/100 | (0.00H |
| | c 694 | H | 6109 | (EXT)@ 183, EXHAUST I | 9/100 | 0650 | 1357 | 427 | 2 | 2 | 2 | 854 | 1/100 | 40.004 |
| | | | | | | | | | | | | | | <u></u> |
| Recount S | ample # | _ w\$ ⁻ ₹ | Recount | 3/100 | | | | | | | | | | |
| INCCOUNT 3 | ample # | - W | recount | 5 100 | | l | L | | 1 | 1 | | | (| 1 |



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| Project Na | me: Pierce Co | Repairs | | | | ER/TEMP | | Comme | nts: | | | | | | |
|-------------|--|---------------------------------------|----------|---|---------------|---------------------|----------------------------------|---------|----------|----------------|-----------------|---------|----------------|--------|--------|
| Project No | o.: 40535.488 | | | I.H. | TER D | TENSLX | 2017 | 4 | 0'5 - 3 | 50 N | | | | | |
| Location: I | Lakewood, W | Ą | | | DIA/ANALYTICA | | | | | | | | | | |
| Contracto | r. Dickson | | | NIOSH 7400 |) | | | | | | | | | | |
| Client: DES | 5 | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | |
| | | GN.): | | | | ANALYZED MIKE SM | | 191 | 01 | DATE/1 /2/5 | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | /IE: | | ANALYZED | | - Marie | <u> </u> | DATE/I | | | | | |
| CODES: | ATE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AII B BLANK | | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANG | N | LE | GBA H | GLOVE E HEPA | BAG ARI | EA | | |
| DATE | ntractor: Dickson ent: DES LINQUISHED BY (SIGN.): CEIVED BY (SIGN.): DATE/TIM DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA DATE NUMBER CODE PUMP COPP OWA HV18-38 COPP OWA HV18-38 COPP OWA 6:696 COPP OWA 6:6 | | | ľ | | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| | Ent: DES LINQUISHED BY (SIGN.): CEIVED BY (SIGN.): DATE/TIME DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA DATE NUMBER CODE PUMP COPP OWA HV18-38 C700 OWA \$1696 C701 H HV36A C702 H 1698 C703 H 090 C704 H 097 C705 TWA 8504 C707 OWA 8297 C708 TWA 8297 | | | i | | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 1/3/21 | INTRACTOR: Dickson ent: DES ELINQUISHED BY (SIGN.): CEIVED BY (SIGN.): DATE/TIME: DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA B BLANK DATE SAMPLE NUMBER CODE PUMP COG9 FIELD BLANK COG9 COG9 OWA HVI8-38 LV1-> LOCATION ACTIVITY / PERSON COG9 OWA HVI8-38 LV1-> LOCATION ACTIVITY / PERSON COG9 OWA HVI8-38 LV1-> LOCATION ACTIVITY / PERSON COG9 OWA HVI8-38 LV1-> LOCATION ACTIVITY / PERSON COG9 OWA HVI8-38 LV1-> LOCATION ACTIVITY / PERSON COG9 OWA HVI8-38 LV1-> LOCATION ACTIVITY / PERSON ACTIVITY / P | | | | | | | | | | | | -> | 1/100 | |
| | NUMBER CODE POMP ACTIVI 21 C697 B = FIELD F C698 B FIELD C699 OWA HV18-38 LV1→ @ | | | FIELD F | BLANK | | | | | | | | = | 1/100 | |
| | OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP AL C697 B C698 B C699 OWA HV18-38 C700 OWA \$1696 C701 H HV36 A C702 H 1698 | | LVIJEL | 6AD-OUT | 1100 | 0626 | 1401 | 455 | 4 | 4 | 4 | 1820 | 23/100 | 0.006 | |
| | SAMPLE NUMBER CODE PUMP 3/21 C697 B C698 B C699 OWA HV18-38 C700 OWA \$1696 C701 H HV36A C702 H 1698 | | | LV3, N. | CORRIDOR | 1/100 | 0626 | . 367 | 40) | 4 | 4 | 4 | 1604 | 2/100 | <0.∞3 |
| | C701 | 1+ | HV30A | ROOF, NE | SAIROS | 1/100 | 0632 | 1310 | 398 | 4 | 4 | 4 | 1592 | 100 | KO.003 |
| | C702 | H | 1698 | ROOF, NE | G AIR 04 | 1/100 | 0634 | 13/2 | 398 | 4 | 4 | 4 | 1592 | | <0.∞3 |
| | C703 | H | 090 | 1 ' | <u>_</u> | 1 . / | 0640 | 1319 | 399 | 2 | 2 | 2 | 798 | %00 | 40.004 |
| | C704 | H | 097 | 1 | | 1/100 | 0642 | 1321 | 399 | 2 | 2 | 2 | 798 | | 10.000 |
| \ | C705 | IWA | 8504 | | | | 0648 | 1243 | 355 | 4 | 4 | 4 | 1420 | 38/100 | <0-003 |
| 1 | | H | 6109 | l \ | · · | 1/100 | 0650 | | 388 | 2 | 2 | 2_ | 776 | 9/100 | (p.004 |
| | C707 | mωA | | | | | 0653 | 1328 | | 4 | 4 | 4 | 1580 | | F00.0 |
| 1 | | | | | • | 1 1 1 | 0700 | | | 4 | 4 | 4 | : - | | 1 |
| 1. | C709 | H | HV135 | | KHAUST 3 | 1/100 | 0636 | 1 | 401 | 4 | Ä | A | 1604 | | KD:003 |
| | | | | | | 1/100 | | | | | | | , | ,,,,,, | |
| | | | | | | | | | | | | | | | |
| Recount S | ample # | C708 | Recount | 30/100 | | | | | | | | | | | |



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| Project Na | roject Name: Pierce College Olympic South | | | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|-------------|--|--|----------|---|------------------|---------------------------------|-------------|---------|----------|-----------------|----------|------------|---------|---------|
| Project No | o.: 40535.488 | | | I.H. CAMERON BU | DNKK | · | 403 | 5-LT1 | Rain | | | | | |
| Location: I | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICA | AL METHOD | | 1 | | | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | 5 | | | | | | | , | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | | | ANALYZEL | OF BY: | NO | 21 | DATE/1 | TIME: 1/2/ | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | lE: | ANALYZEI | | l | | DATE/1 | _ | | | | |
| CODES: | ODES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AR CODING TO BE NUMBER CODING TO BE CO | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | Α | | <u></u> |
| DATE | INQUISHED BY (SIGN.): EIVED BY (SIGN.): DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER /G. C710 B C711 B C712 OWA 1696 C713 H HV30 C714 H 1698 C715 IWA 8504 C716 H 090 | | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 12.11 | DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 16 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD (7/ | cc |
| 126 | | | | Black | _ _ | | | | | | | | 1/100 | 4 |
| | | | | Blank | | | | | | | <u> </u> | | 0/100 | |
| | | | | 1/1 3 N Condo | 0/100 | 6:30 | 1 | 450 | 4 | 4 | 4 | 1800 | 4/100 | 50:002 |
| / | | | HV30A | Rost -NA07 | 0/100 | | 1 | 449 | 4 | 4 | 4 | 1796 | , | <0.002 |
| | | | 1698 | Roof-NAO5 | 1/100 | 6:34 | | 450 | 4 | 4 | 4 | 180 | | 40.002 |
| | | IWA | 8504 | Room 272 Ocoray | 0/100 | 6:40 | 9:58 | 190 | 4 | 4 | 4 | 760 | 12/100 | 0.008 |
| | | H | 090 | W Stoiscoic #1 | 0/100 | 6:44 | 2:09 | 445 | 2 | 2 | • | <u>890</u> | %100 | <0.004 |
| | C717 | 1 | HV135 | ECE #1 | %00 | 6:46 | 11:02 | 2510 | 4 | 4 | 4 | 2024 | 1/100 | 60-004 |
| | C718 | 1 | 097 | 284 Exhaust #1 | 9/100 | 6:47 | 2:10 | 443 | 2 | 2 | ユ | 886 | 0/100 | 6.004 |
| \ | C719 | H | 6109 | 283 Exhaust #1 | 0/100 | 6:52 | 2.07 | 435 | 2.6 | 2.6 | Z.C | 1131 | | Kc.004 |
| \/ | C720 | OWA | 8297 | Skylendac Landout | %00 | 6:53 | 1:57 | | 4 | 4 | 4 | (io9 io | 6/100 | 40.003 |
| 7 | C721 | IWA | 211607 | 3d FI SW | %100 | T | 1:49 | | 4 | Ч | 4 | | 4 | LOAD |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | 1 1 | | | | | | | | | | |
| Recount S | ample # | 0717 | Recount | 7/100 | | | | | | | | | | |



214 E GALER STREET, SUITE 300 SEATTLE, WA 98102 206.233,939

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| Project Na | me: Pierce C | ollege Ol | lympic Sou | ith Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | ents: | | | |
|--|--|--|--------------------|---|---------------------|---------------------------------|-------|---------------|------------|-----------------|--------|--------|--------|----------|
| Project No | o.: 40535.488 | | | I.H. PETER STER | JSLAN | J D | ال |) S - | 50 | | | | | |
| Location: | Lakewood, W | Ά | | SAMPLE MEDIA/ANALYTICA | L METHOD | : | 1 | , 0 | J U | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQUI | ISHED BY (SI | GN.): | | | ANALYZEI Wike So | | -111 | 14 | DATE/I | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TII | ME: | ANALYZEI | D BV: | | | DATE/T | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE 2/4/21 C/122 TB | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | w. | |
| DATE | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP | | | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | Doc | FLOW | 1 41/6 | TOTAL | FIB | FIB |
| 12/2/01 | EIVED BY (SIGN.): EIVED BY (SIGN.): DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA ATE NUMBER C 723 B - C 724 CWA 6134 C 725 CWA 1696 C 727 H 1698 C 729 H 090 C 730 H 097 | | | | AVG | ON | UFF | FIIVE | PRE | POST | AVG | VOL | FLD | cc |
| / */ // / | | | _ | FIELD BLANK | | | | | | | | | /100 | |
| | 61 C722 B - 1 1 C723 B - 1 C724 OWA 6134 L | | LVI - LOADOUT | 0/100 | 0634 | 1358 | 444 | 4 | 4 | 4 | 1776 | 18/100 | 0.005 | |
| | c725 | OWA | 1696 | LV3 - N. CORRIDOR | 0.7 | 0635 | 1403 | | 4 | 4 | 4 | 1792 | 6/100 | 0.016 |
| | C726 | Н | HUOA | ROOF-NEGAROL | | o 638 | | | 4 | 4 | 4 | 1792 | %00 | CD.002 |
| | | | 1698 | ROOF - NEG AR 01 | 0/100 | 0640 | 1408 | 448 | 4 | 4 | 4 | 1792 | 1/100 | 10.002 |
| | | The state of the s | | Room 272 Doorway | | 5648 | 0958 | 190 | 4 | 4 | 4 | 760 | 45/100 | 0.030 |
| | | | ' ' ' ' | W. STAIRCASE EXHAUST 1 | } _/ / | 0652 | 1415 | | 2 | 2 | 2 | 886 | | <0.004 |
| $\vdash \downarrow$ | ! | <u> </u> | | (EXT) EXHAUST@ 284 | 0/100 | | 1417 | | 2 | 2 | 2_ | 888 | 2/00 | 40.004 |
| | C731 | <u> </u> | 3055 | ECE, EXHAUST#2 | 0/100 | 0655 | 1413 | 438 | 2.6 | 2.6 | 2.6 | 1139 | 100 | ₹0.00- |
| | C732 | | 6109 | (EXT) EXHAUST @ 283 | 1 ~ 7 | 1 | 1411 | 434 | 2 | 2 | 2 | 868 | 3.5/00 | 40.004 |
| | C733 | | 8297 | LV2 e LOAD OUT | 100 | 0703 | | 416 | 4 | 4 | 4 | 1664 | 100 | 0.005 |
| 4 | C734 | IWA | 211407 | LV 3 - SW SIDE | 0/100 | 9040 | 1202 | 293 | 4 | 4 | 4 | OVE | RLOAI | <u> </u> |
| <u> </u> | | | <u> </u> | | | | | | | | | | | |
| Recount S | emple # | c724 | Recount | 19/100 | <u> </u> | | | | | | | | ļ | |
| Recount 3 | ample # | 1107 | Iveconit | 7100 | <u>i</u> | 1 | | | 1 | | 1 | 1 | | Ì |



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| Project Na | ame: Pierce Co | ollege Ol | ympic Sout | th Abatement and Repairs | **** | | WEATH | ER/TEMP: | : | Comme | nts: | | | |
|------------|--|-------------|------------|---|---------------------|---|-------------|----------|----------|-----------------|---------|-------|--------------|------------------|
| Project No | o.: 40535.488 | | | I.H. CAMERON BUT | ンちって | · ···································· | 1 4 | 6-50 |) | | | | | |
| Location: | Lakewood, W. | A | | SAMPLE MEDIA/ANALYTICA | | NIOSH | | T RA | | | | | | |
| Contracto | r: Dickson | | | 7400 | | | | | | | | | | |
| Client: DE | S | | | | | | | | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TIN | /IE: | ANALYZEI Mike Sm | | 111 | 1.4 | DATE/I | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | BY: | | 4 | DATE/T | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 7/2 C735 B | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG ARI | EA | | : |
| DATE | NQUISHED BY (SIGN.): DATE/TO EIVED BY (SIGN. | | | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME ON | TIME OFF | TOTAL | 200 | FLOW | 4172 | TOTAL | FIB | FIB |
| 12/2/2 | ion: Lakewood, WA actor: Dickson :: DES VQUISHED BY (SIGN.): DATE/TII IVED BY (SIGN.): DATE/TII IVED BY (SIGN.): DATE/TII IVED BY (SIGN.): DATE/TII ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA TE NUMBER CODE PUMP (C 736 B - | | | | AVG | UN | UFF | TIME | PRE | POST | AVG | VOL | FLD 1/100 | 22 |
| 10/0/12 | IWA INSIDE AREA A AMB | | | | | | | | | | 3 | | 1/100 | |
| | SAMPLE NUMBER CODE PUMP 1 C735 B - C736 B - C737 ONA HV18-39 C739 H HV30A | | 4112.20 | | 1/00 | 0638 | 11123 | 465 | ч | 4 | 4 | 1860 | 3/100 | 40.002 |
| | DES QUISHED BY (SIGN.): DATE/T JED BY (SIGN.): DATE/T DES JED BY (SIGN.): DATE/T DES DES DES DES DES DES DES DE | | | | | 0645 | | 433 | Ч | 4 | 4 | 1732 | 160 | <0.002 <0.002 |
| | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA CT35 B CT36 B CT37 OWA HVI83 CT38 OWA 1696 CT40 H 1698 CT42 H 099 CT44 H 3055 CT45 H 6109 CT45 H 6109 CT47 IWA 21160 | | ` ` | ROOF - NEG. AIR OB | | 0650 | 1401 | 1 | 4 | 4 | u | | %100 | 6002 |
| | | <u> </u> | 1698 | | | 0652 | | 432 | 4 | 4 | 4 | 1728 | 1/100 | 6.002 |
| | C741 | TWA | | Room 272 DOORWAY | 1/100 | | 1155 | | 4 | 4 | 4 | 1204 | 74/100 | 0.020 |
| | C742 | H | | EXHAUST - W. STANCH | 50 1/100 | 0701 | 1413 | 432 | 2 | 2 | 2 | | 3/100 | <0.00₹ |
| | C743 | H | 094 | (EXT) EXHAUST 3@ 284 | 1/100 | 0702 | 1412 | 430 | 2 | 2 | 2 | 860 | | 40.004 |
| | | | 3055 | ECE - EXHAUST #3 | 1/100 | 0708 | 1410 | 422 | 2 | 2 | 2 | 844 | 1/100 | 40.004 |
| | C745 | H | 6109 | (EXT) EXHAUST 3@283 | 1/100 | 0709 | 1408 | 419 | عا ٠ ي | 2.6 | 2.6 | 1089 | 5/100 | (0.004 |
| | | | | | 1/100 | 0711 | | 404 | Ч | 4 | Ч | 1616 | 19/100 | 0.005 |
| <u></u> | C747 | AWI | 211607 | LV3 - SW SIDE | 1/100 | 0714 | 1155 | 281 | Ĺ | 4 | 4 | 1124 | 59/100 | 0.025 |
| 4 | C748 | C | 4173 | | 1/100 | 820 | 1020 | 120 | 10 | 10 | 10 | 1200 | 9/100 | 0.003 |
| | | | | | | | | | | | | | | |
| Recount S | Sample # | C441 | Recount | 69.5/100 | 1 | | | | | | | | | · |



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| Project Name: Pierce College Olympic Sou Project No.: 40535.488 | | | | h Abatement and Repairs | | | WEATH | ER/TEMP: | | Comme | nts: | | | |
|--|--|-------|----------|--|---------------------|---------------------------------|-------|---------------|----------|-----------------|----------|--------------|------------|--------------|
| Project No | .: 40535.488 | | | I.H. PETER STE | viel A*) | | | | | | | | | |
| Location: l | akewood, W | 4 | | I.H. PETER STE SAMPLE MEDIA/ANALYTICA | L METHOD | NIOSH | | | | | | | | |
| Contractor | : Dickson | | | 7400 | | | | | | | | | | |
| Client: DES | | | | | | | | , | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | 1E: | ANALYZEI M1Ke On | O BY: | 150 | | DATE/I | IME:/2 | 1 | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | ANALYZEI | | 7 | 4 | DATE/1 | | <u> </u> | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG ARI | A | | |
| DATE | | CODE | PUMP | ŁOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | PRE | FLOW POST | I AVG | TOTAL VOL | FIB FLD | FIB CC |
| 12/9/21 | C749 | B | _ | FIELD BLANK | | | | | | | | -> | 0/100 | |
| | NUMBER CODE POMP 1 C749 B - 1 C750 B | | | FIELD BLANK | | | | | | | | | 0/100 | _ |
| | 2) C749 B | | 6109 | (EXT) EXHAUST 3@ 183 | %00 | 0647 | 1331 | 404 | 2.4 | 2.4 | 2.4 | 968 | %100 | 60.004 |
| | C752 | H | 3055 | ECE, EXHAUST 3 | %00 | 0650 | 1333 | 403 | 1 | 2 | 2 | 806 | 10/ _ | Y00,004 |
| | C753 | # | 090 | KL STANDWAY, EXHAUST ? | | 0652 | 1327 | 395 | 2 | 2 | 2 | 790 | | 40.004 |
| | C754 | H | 097 | (Ext.) EXHAUST 3@ 284 | 0/100 | 0655 | 1325 | 390 | 2 | 2 | 2 | 780 | 9/160 | 40.004 |
| | c 755 | IWA | | LY2, Room 272 Doory | I/ * . | 0727 | 0957 | 150 | 4 | 4 | 4 | 600 | | 0.051 |
| | | οω Α | | LV3, NORTH CORRIDO | | 0659 | 1 / " | | 4 | 4 | 4 | 1664 | 3/100 | <u> </u> |
| | <u> C757</u> | H | 1695 | ROOF, NEG AIR 03 | 0/100 | 0705 | | 398 | 4 | 4 | 4_ | 1592 | 1/100 | <0.∞3 |
| } | C758 | H | Hv30A | ROOF, NEG AIR 06 | 0/100 | 0705 | | 397 | 4 | 4 | 4 | 1588 | 1.5/100 | <u>८०,∞3</u> |
| * | | IWA | 211607 | LV. 3, SOUTHWEST SIDE | 0/100 | 0743 | 1012 | 149 | 4 | 4 | 14 | 596 | 17/100 | |
| | C760 | ALD | 4418-30 | LVI, Q. LOADOUT | 9/100 | 0711 | 1322 | 371 | 4 | 4_ | 4 | 1484 | 16/100 | 0.005 |
| | | | 8297 | LV2 @ LOADOUT | 0/100 | 0713 | 1321 | 348 | Ч | 4 | 4 | 1472 | ₹/00 | 0.003 |
| | | | | | | | | | | | | | | |
| Recount S | ample # | C759 | Recount | 15.5/100 | | | | | | | | ł | 1 | |



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| Project Na | me: Pierce Co | llege Ol | ympic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|-------------|--|----------|----------------|---|-------------------|-----------------------|-------|---------|------------------|-----------------|---------|------------|--------|--------|
| Project No | o.: 40535.488 | | | I.H. Peter Stenslama | J | | | | | | | | | |
| Location: | Lakewood, W | Δ. | | SAMPLE MEDIA/ANALYTICA | | NIOSH | | | | | | | | |
| Contracto | r. Dickson | | | 7400 | | | | | | | | | | |
| Client: DE: | 5 | | | | | | | a 1 | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TIM | E: | ANALYZEI V IVa | | 125 | | DATE/1 12/13/ | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | • | DATE/TIM | E: | ANALYZED | | - | | DATE | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE CODE PUMP IO C7C2 B | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION | N | LE | GBA H | GLOVE E HEPA | BAG ARI | ĒA | | |
| DATE | ATE SAMPLE NUMBER CODE PUMP (10 C7C2 B C7C4 H 090 C7C6 H 097 | | | LOCATION | BLANK | TIME | TIME | TOTAL | T | FLOW | | TOTAL | FIB | FIB |
| DAIL | INQUISHED BY (SIGN.): DATE/TIME CEIVED BY (SIGN.): DATE/TIME DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA CATE SAMPLE NUMBER CODE PUMP (10 C7C2 B C7C3 B C7C4 LL O90 C7C5 H C90 C7C6 H C97 C7C6 H C97 C7C6 H C96 C7C8 OWA 1696 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 12/10 | S: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA TE SAMPLE NUMBER CODE PUMP C763 B C763 B C764 H O90 C766 H O97 C767 H 3055 | | | Blank | | | | | | | | | 9/100 | |
| | NUMBER CODE PUMP C7CZ B C7G3 B | | | Black | _ | | | | | | | | 0/100 | |
| L/ | NUMBER 0 C7C2 B C7G3 B C7C4 U 090 | | 090 | 283 Exhaust #1 | %100 | 6:47 | 2:03 | H36 | 2 | 2 | 2 | ₹72 | %100 | 60.004 |
| | C763 B C764 H 090 C765 H 6109 | | ECE Exhaust #4 | 0/100 | 6:50 | 21:05 | 435 | 2.4 | 2.4 | 2,4 | 1044 | %00 | 10.000 | |
| | C766 | 14 | 097 | W Stairs Exhaust #4 | 0/100 | C:54 | Z:07 | 433 | 2 | 2 | Z | 866 | .5/100 | 60.00L |
| | C767 | + | 3055 | 284 Extranst #4 | 0/100 | 6:55 | 2'08 | 433 | 2 | 7 | 2 | 866 | 0/100 | 400.00 |
| | C768 | OWA | 1696 | Oly N Corndor | 0/100 | 6:59 | 2:13 | 434 | 4 | 4 | 4 | 1,736 | 1/100 | (0.002 |
| | C769 | H | HV 304 | Roof -NAO7 | 0/100 | 7:05 | 2:16 | 431 | 4 | 4 | 4 | 1,724 | 1/100 | 40.002 |
| | 7770 | 17 | 1698 | Roof - NAO4 | 0/100 | 7:05 | 2:18 | 433 | 4 | 4 | 4 | 1,732 | 2/100 | Ko.002 |
| | C771 | OWA | 8297 | Skybrolge loadout | 0/100 | 7:15 | 2/20 | 405 | 4 | 4 | 4 | 1620 | 6/100 | 0.002 |
| | C772 | OWA | 141/18-38 | | 0/100 | 7:17 | 2:17 | 420 | 4 | 4 | 4 | 1680 | 1 1 | 0.003 |
| | C773 | AWI | ४५०५ | Room 272 Darway | 0/100 | 7:32 | 10:10 | 158 | 4 | 4 | 4 | 632 | [ii | 0.010 |
| A | C774 | IWA | 211607 | LVL 3 SE Side | 0/100 | 8:05 | 1:39 | 334 | 4 | 4 | 4 | 1,336 | _ / | 0.004 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Recount S | iample # | C774 | Recount | 4/100 | | | | | | | | | | |



214 E GALER STREET, SUITE 300 SEATTLE, WA 98102 206.233.939

| Project Name: Pierce College Olympic Sout Project No.: 40535.488 | | | | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | · |
|---|---|-------|----------|-----------------------------------|--|-------|-------------|---------------|----------|-----------------|---------|-------|------------|---------------|
| Project N | lo.: 40535.488 | | | I.H. PETER STENSI | AND | | | | | | | | | |
| Location | : Lakewood, W | A | | SAMPLE MEDIA/ANALYTICA | L METHOD: | NIOSH | 1 | | | | | | | |
| Contract | or: Dickson | | | 7400 | | | | | | | | | | |
| Client: D | ES | | | | | | | <i>l</i> . | | | | | | |
| RELINQ | JISHED BY (SI | GN.): | DATE/TIN | ME: | ANALYZEI | | alt. | M | DATE/1 | IME: | | TWA: | | |
| RECEIVE | D BY (SIGN.): | | DATE/TIN | NE: | ANALYZEI | | | *h*/_/ | DATE/1 | IME: | • | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | | N | LE | GBA H | GLOVE E HEPA | BAG ARI | Ā | | |
| DATE | IWA INSIDE AREA A AMBIENT AIR OWA OUTSIDE AREA B BLANK TE SAMPLE NUMBER CODE PUMP ACTIVITY / PERSON 321 C45 B - FIELD BLANK | | | | BLANK | TIME | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL | FIB FLD | FIB CC |
| 12/13/2 | _ | R | _ | | EX EXCURSION TEM CLEARANCE BLANK TIME ON L SON AVG ON L SOF Decor *5/100 0642 LIDOR *5/00 0645 | | | | PAL | F031 | AVG | VOL | 1/100 | |
| | C776 | B | _ | FIELD BLANK | | | | | | | | | 0/100 | |
| | C777 | | HV18-38 | | .5/100 | 0642 | 17138 | 476 | Ч | ч | Ч | 1904 | 21/100 | |
| | ८२न8 | οωΑ | | LV3 - N. CORRIDOR | | _ | | 451 | L) | 4 | Ч | 1864 | 4/100 | 60.002 |
| | 0749 | Н | | 700F - NEG AIR 06 | .5/100 | 0650 | 14/8 | | | 4 | 4 | 1792 | . / 🧥 | 60.002 |
| | ८,480 | H | 1698 | ROOF-NEG AIR OI | .5/100 | 0652 | 1419 | | 4 | ч | 4 | 1788 | - / | 40.002 |
| | C781 | AWI | 8504 | Room 272 DOORWay | 15/100 | 0655 | 1230 | 335 | ч | Ч | 4 | 1340 | 0/100 | 60.003 |
| | C782 | H | 6109 | (EXT) EXHAUST 1 @ 283 | 15/100 | 0702 | 1464 | 422 | 2.4 | 2.4 | 2.4 | 1013 | 78/100 | 0.038 |
| | C783 | H | 3055 | ECE - EXHAUST 1 | .5/100 | 0705 | 1403 | 418 | 2 | 2 | ~ ` | 836 | 1/100 | <0.∞5 |
| | C784 | H | 090 | W. STELLVAY-EXHAUST 1 | .5/100 | 707 | 1407 | 420 | 2 | 2 | 2 | 840 | 0/100 | 40.005 |
| | C785 | H | 097 | (EXT) EXHAUST 1 @ 284 | .5/100 | 0708 | 1409 | 421 | 2 | 2 | 2_ | 842 | 0/100 | Kn.005 |
| | C784 | CUA | 9297 | SKYBRIDGE @ LOAD OUT | 15/100 | 0718 | 1400 | 402 | 4 | 4 | 4_ | 1608 | 4/100 | 50.003 |
| -7 | C 787 | IWA | 211667 | LV3 - SE 516E | -5/100 | 0725 | 1238 | 313 | 4 | 4 | 나 | 1252 | 17/100 | 0.006 |
| | | | | | | | | |] | | | | | |
| Recount | Sample # | c775 | Recount | %00 | | | | | | | | | | |



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| Project | roject Name: Pierce College Olympic South Ab roject No.: 40535.488 | | | | th Abatement and Repairs | | | WEATH | ER/TEMP: | | Comme | nts: | | | |
|---------|---|--------------|-------|----------|-----------------------------------|---------------------|---------------------------------|-------------|----------------|--------------|-----------------|---------|------------------|--------------------|-----------|
| Project | No | .: 40535.488 | | | I.H. PETER STENS | I NAJE | · | 1 | | | | | | | |
| Locatio | n: L | akewood, W | A | | SAMPLE MEDIA/ANALYTICA | | | 1 | | | | | | | |
| Contra | ctor | : Dickson | | | 7400 | | | | | | | | | | |
| Client: | DES | | | | | | | | | | | | | | |
| RELIN | QUI | SHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZEE Mike So | BY: | I-PX | 1 | DATE/1 | IME: | | TWA: | | |
| RECEI | /ED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | ву: // | | N \ | DATE/I | | | | | |
| CODES | IWA INSIDE AREA OWA OUTSIDE AREA TE SAMPLE CODE PUMI | | | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | PΝ | LE. | GBA H | GLOVE E HEPA | BAG ARI | ĒA | | *** |
| DAT | OWA OUTSIDE AREA B BLANK TE SAMPLE NUMBER CODE PUMP LOCATION ACTIVITY / PERSON ALL CTBB B - FIELD BLANK | | | | | BLANK AVG | TIME ON | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FfB CC |
| 12/14 | 21 | C788 | В | _ | | | | | | | | | -> | %00 | |
| , , | 1 | C789 | B | - | FIELD BLANK | | <u> </u> | | | <u> </u> | | | → | 1/100 | |
| | | 6780 | TWA | 8504 | LV 2- 271 DOOGWAY | 15/100 | 0639 | 0956 | 197 | 4 | 4 | 4 | 788 | 16/100 | 0.01 |
| | | C781 | Н | 6109 | (EXT) EXHAUST @ 283 | 15/00 | 0641 | | 337 | 2.4 | | 2.4 | | 0/100 | (0.005 |
| | | C 482 | Н | 3055 | ECE - EXHAUST OI | 15/100 | 0643 | 1219 | T | 2 | 2 | 2 | 672 | 1/100 | 40.005 |
| | | C783 | AWO | 1696 | LV. 3 - @ N CORRIDOD | .5/100 | 7653 | 1230 | 337 | 4 | 4 | 4 | 1348 | 4/100 | ⟨0.003 |
| | | C784 | οωΑ | HV18-38 | LV. I - @ LONDOUT | 15/100 | 0633 | 1313 | 400 | 4 | Ч | 4 | 1400 | 12/100 | 0.004 |
| | | C785 | H | HV30A | ROOF - NEG AIROF | 15/100 | 0700 | 1235 | 335 | 4 | 4 | 4 | 1340 | 2/100 | ⟨0.003 |
| | | C786 | H | 1698 | ROOF - NEG AIR 02 | .5/100 | 0702 | 1236 | 334 | 4 | 4 | 14 | 1336 | 8/100 | 40.003 |
| | | C 487 | οωΑ | 8294 | LV1 - SKYBRIDGE LOADOUT | .5/100 | 0705 | 1215 | 310 | 4 | ц | 4 | 1240 | 4/100 | (0.003 |
| | | C788 | IVA | 211607 | LV3 - 5E 51DE | .5/100 | 0707 | 1213 | 306 | ц | 4 | Ч | 1224 | ¹⁹ /100 | 0.007 |
| | _ | C789 | H | 0977 | (EXT) EXHAUST 2 @ 184 | .5/100 | 0744 | 1221 | 277 | 2_ | 2 | 2 | 554 | 100 | K0.00C0 |
| | A | <u>C790</u> | H | 090 | W STANCASE EXHAUST 2 | .5/100 | 0745 | 1223 | 278 | 2 | 2 | 2 | 556 | -5/100 | <0.00€ |
| | - | - | | | | [| | | | | | | | | |
| Recou | nt Sa | l ample # | 290 | Recount | %00 | | | | | | | | <u> </u> | | |



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| Project Na | me: Pierce Co | llege Ol | ympic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP: | | Comme | nts: | | | |
|-------------|--|----------|-------------|---|----------------------|-----------------------------------|-------------|---------------|----------|-----------------|---------|--------------|------------|-----------|
| Project No | .: 40535.488 | | | I.H. PETER STENS | CNAJE | | | | | | | | | |
| Location: L | akewood, W | 4 | | SAMPLE MEDIA/ANALYTICA | | | | | | | | | | |
| Contractor | : Dickson | | | 7400 | | | | | | | | | | |
| Client: DES | 5 | ÷ | | | | | | 1. | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIM | 1E: | BISYJANA BISYJANA | | (D) | | DATE/I | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | ANALYZE | | | 4 | DATE/T | IME: | | | | |
| CODES: | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 5/21 C'791 B | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARANG | N | LE | GBA H | GLOVE E HEPA | BAG ARI | Ā | | |
| DATE | t i | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME ON | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 12/15/21 | C791 | B | ^ | FIELD BLANK | | | | | | | > | > | 1/100 | , |
| / | C492 | B | - | FIELD BLANK | | | | | | | ->- | -> | 1/100 | 1 |
| | C 793 | H | HV.36 A | ROOF - NEG AIR 08 | 1/100 | 0635 | 1421 | 466 | 4 | 4 | 4 | 1864 | 4/100 | <0.002 |
| | C794 | OWA | - | LVI - @ LOADONT | 1/100 | 0636 | , - | | 4 | 4 | 4 | 1760 | 4.5/100 | ⟨0.063 |
| | C795 | H | 1698 | ROOF - NEG AIR 03 | 1/100 | 0637 | | | ч | 4 | Ч | 1860 | 2/100 | Lo.002 |
| | ሮ 符ዓራ | οωΑ | | LV 3 - @ N CORRIDOR | 1/100 | 0640 | | 458 | 4 | 4 | 4 | 1832 | 2/100 | 10.002 |
| | C797 | IWA | 8504 | LV 2 - 272 DOORWAY | 1/100 | 0646 | 1005 | 209 | ч | 4 | 4 | 836 | 13/100 | |
| | c 798 | Н | <i>©</i> 90 | W STANCASE-EXHAUST 3 | 1/100 | 7400 | 1413 | 446 | 2 | 2 | 2 | 892 | 4/100 | 40.005 |
| | ር ችዓዓ | H | 097 | (EXT) EXHAUST@ 284 | 1/100 | 0649 | 1412 | 443 | 2 | 2 | 2 | 886 | 1/100 | ⟨0.005 |
| | C 800 | H | 3055 | ECE - EXHAUST 3 | 1/100 | 0651 | | 439 | 2 | 2 | 2 | 878 | 2/100 | ⟨0.005 |
| | C 801 | H | 6109 | (EXT) EXHAUST @ 283 | 1/100 | 0653 | 1409 | -136 | 2.4 | 2.4 | 2.4 | 1046 | 6/100 | 60.004 |
| 41 | C802 | DWA | 8297 | LOADOUT @ SKYBRIDGE | 1/100 | 0655 | | 426 | Ц | 4 | 4 | 1704 | 7/100 | |
| Ŋ | C803 | IWA | | LV3 SE SIDE | 1/100 | 0700 | | | ч | 4 | ч | 1616 | 36/00 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Recount S | ample# | 10790 | Recount | ው _ል አሥ | 1 | 1 | | 1 | | 1 | 1 | | | |



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| Project | Name: Pierce Co | ollege Oly | mpic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP: | | Comme | nts: | | | |
|-----------|--|---------------------------------------|-----------|---|--------------------|----------------------------------|--------------|---------------|----------|-----------------|---------|--------------|------------|---------------|
| Project | No.: 40535.488 | | | I.H. PETER STENS | LANN | | | | | | | | | |
| Locatio | ı: Lakewood, W | Ą | | SAMPLE MEDIA/ANALYTICAI | | NIOSH | | | | | | | | |
| Contrac | tor: Dickson | · · · · · · · · · · · · · · · · · · · | | 7400 | | | | | | | | | | |
| Client: [| ES | | | | | | | | | | | | | |
| RELINC | UISHED BY (SI | GN.): | DATE/TIM | IE: | ANALYZED Mike S | | 1.11 | | DATE/I | | | TWA: | | |
| RECEIV | ED BY (SIGN.): | | DATE/TIN | 1E: | ANALYZED | | <u> </u> | | DATE/T | | | | | |
| CODES | iwa insid owa outs | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIC CLEARANG | N CE SAMP | | GBA H | GLOVE E HEPA | BAG ARE | -A | | |
| DATI | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME ON | TIME OFF | TOTAL TIME | PRE | FLOW | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 12/16/2 | 1 0804 | В | ~ | FIELD BLANK | | | | | | | | 3 | 2,00 | |
| 1 | C805 | 8 | - | FIELD BLANK | | | | | | | | | 0/100 | |
| | 6800 | 14 | 090 | (EXT) EXHAUST 1@283 | 0/100 | 6651 | 1331 | 400 | 2.1 | 2.1 | 2.1 | 840 | 1 | 40.004 |
| | NUMBER CODE PUMP 21 C804 B - C805 B - C806 H 090 C807 H 3055 C808 H 097 | | | ECE-EXHAUST 4 | %100 | | 1324 | 389 | 2 | 2 | 2 | 778 | ` / | 40,005 |
| | 0808 | # | 097 | W. STAIRWAY EXHAUSTY | 0/100 | | 1320 | 383 | 2.1 | 2.1 | 2.1 | 804 | 3/100 | <0.005 |
| \ | C809 | H | 6109 | (EXT) EXHAUST 4 @ 284 ' | 0/100 | g-00 | 1322 | 382 | 2.5 | 2.5 | 2.5 | 955 | 3.5/100 | C0.004 |
| | (810 | OWA | 1694 | LV3, @ NCORRIDOR | %100 | 0709 | 1340 | 391 | 4 | 4 | 4 | 1564 | | 60.003 |
| | CBII | 17 | 1698 | ROOF - NEGAIR 04 | 0/100 | 0710 | 1353 | 403 | 4 | 4 | 4 | 1612 | | <0.003 |
| | C812 | οω Α | HV18-38 | LVI - @ LOAD OUT | 0/100 | 0717 | 1350 | 393 | 4 | 4 | 4 | 1572 | 13/100 | 0.004 |
| | C 813 | IWA | 8504 | LV 2- @ 272 DOORWAY | 0/100 | 0731 | 1007 | 156 | 4 | 4 | 4 | 624 | 22.5/00 | 0.018 |
| | 1 CB14 | IWA | 211607 | LU3 NE CORRIDOR | 0/100 | 0740 | 1212 | 272 | 4 | 4 | 4 | 1088 | 31/100 | 0.014 |
| | C815 | 14 | H V30A | ROOF- NEG AIR 06 | 0/100 | 0710 | 1352 | 402 | 4 | 4 | 4 | 1608) | 1/100 | <0.003 |
| | | | | | | | | | | | | | | |
| Recoun | t Sample # | 0012 | Recount | 3/100 | | | | | | | | | | |



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| Project Na | me: Pierce Co | ollege Ol | ympic Sout | th Abatement and Repairs | | | WEATH | ER/TEMP | | Comme | nts: | , , , , , , , | | |
|---|---|-----------|------------|-----------------------------------|--------------------|----------------------------------|-------------|---------------|----------|-----------------|----------|---------------|------------|-------------|
| Project No | .: 40535.488 | | | I.H. PETER STEN | SLAND | > | | | | | | | | |
| Location: l | akewood, W | A | | SAMPLE MEDIA/ANALYTICA | | | 1 | | | | | | | |
| Contracto | r. Dickson | | | 7400 | | | | | | | | | | |
| Client: DES | 5 | | | | | | | , | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | AE: | ANALYZEI MIK ST | D BY: | 1/24 | A | DATE/I | IME: | , | TWA: | | |
| RECEIVED | BY (SIGN.): | • | DATE/TIN | ΛE: | ANALYZEI | | 7 71 | <u>~_1</u> | DATE/1 | | <i>I</i> | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP ATE CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG ARI | A | | |
| DATE | 8 | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 12/17/21 | C816 | В | | | | | | | | | | <u>-></u> | %00 | |
| <i>f</i> | 1 | | | | | | | | | | | | 2/100 | |
| | C814 B | | (610d | (EXT) EXHAUST L @ 183 | 0/100 | 0649 | 1206 | 317 | 2.5 | 2.5 | 2.5 | 793 | 1/100 | <0.005 |
| | C819 | Н | 3055 | (EXT) EXHAUST 1 0 284 | | 0657 | | 312 | 1.5 | | 2.5 | 780 | | |
| | C820 | H | 097 | ECE-EXHAUST 1 | 0/100 | | | 315 | 2.1 | 2.1 | 2.) | 662 | 2/100 | ⟨0.00€0 |
| | C821 | H | 090 | W STAIRNAY, EXHAUST I | 0/100 | | | | 2 | 2 | 2 | 63D | 2/100 | ⟨0.00€ |
| | C822 | ow A | | BLY S. LV3, N COPRIDOR | 0/100 | | 1157 | 297 | 4 | 4 | 4 | 1188 | 1/100 | 40.004 |
| | C823 | H | ? | ROOF - NEG AIR 07 | 0/100 | 0708 | 1201 | 293 | 4 | 4 | 4 | 1172 | 1/100 | ⟨0.00+ |
| | C824 | 11 | 1698 | ROOF - NEG AR 05 | %100 | 8070 | 1203 | 295 | Ч | 4 | 4 | 1180 | %00 | KO.004 |
| | C825 | owA | 8297 | LV2, @ LOAD OUT | | 0716 | 1215 | 299 | 4 | 4 | Ħ | 1196 | / | 0.006 |
| | | оыА | HV18-38 | LV I, & LOADOUT | %100 | FIFO | 1233 | 316 | 4 | Ч | 4 | 1264 | | 0.005 |
| | C827 | AUL | 211607 | LV3, NE CORRIDOR | 0/100 | 0719 | 1219 | 300 | 4 | Ч | 4 | 1200 | 12/00 | 0.005 |
| • | c828 | | l _ | LV 2 @ 272 DOORWAY | 0/100 | | 1217 | 296 | 4 | 4 | 4 | 1184 | 33/100 | 0.014 |
| *************************************** | | | | | | | | | | | | | | |
| Recount Sa | ample # | 8254 | Recount | 14/100 | | | | | | | | | | |



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| Project Na | oject Name: Pierce College Olympic South Abatement and Repairs | | | | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|--|---|-------|--------------|-----------------------------------|------------------|----------------------------------|-------|---------|----------|-----------------|------------|------------|-------|---------|
| Project No | o.: 40535.488 | | | I.H. PETER STEN | SIGNID | | 1 | | | | | | | |
| Location: | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICA | L METHOD | : | 1 | | | | | | | |
| Contracto | r: Dickson | | | | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| | SHED BY (SI | GN.): | DATE/TI | ME: | ANALYZEI | D BY: | | 14 | DATE/ | I TIME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ME: | ANALYZE | D BY. | | | DATE/ | TIME: | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 10/21 C8/29 B - | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | E A | | |
| DATE | IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 0/21 C829 B - (830 B - (831 0 00 A 3055 | | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| (2/ / | IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP (21 C929 B - (830 B - (830 B - (831 OWA 3655 (832 OWA 6109 (833 OWA 090 (834 OWA 097 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 120/2 | 1 C829 B - FIELD BLANK | | | | | | | | <u></u> | | | 9/100 | | |
| - | | | | | 2/- | | | | | - | — — | | 1/100 | |
| -/ | · · · · · · · · · · · · · · · · · · · | | | LVI - @ LOADOUT | 0/100 | 0737 | 1223 | | 2_ | 2 | 2 | 580 | 1100 | <0.00₹ |
| | | | | LV2-D LOADOUT | 9/100 | 0739 | · | | 2-5 | 2.5 | 2.5 | 700 | 2/100 | Ko.006 |
| | | | | LV3-@ LOADOUT | 0/100 | 0741 | 1221 | | 2.1 | 2.1 | 2./ | 588 | 0/100 | 60.007 |
| | | OUA | | @ N. CORRIDOR | 9/100 | 0747 | 1234 | 287 | 2.0 | 2.0 | 2.0 | 574 | 1/100 | Lo.007 |
| | 1 | OU A | ৩৪৭ | LV2 - OLY N. COPRIDIT | | 0805 | 1235 | 270 | 2-0 | 2.0 | 2.0 | 540 | 2/100 | CO.007 |
| $ \downarrow$ \downarrow | C836 | Н | HV30A | Roof - NEG AIR 08 | 9/100 | 0825 | 1280 | 245 | 10 | 10 | 10 | 2450 | 3/100 | 6.001 |
| * | C837 | H | 1698 | Roof - NEG AIR OS | 0/100 | 0827 | 123) | 244 | 10 | 10 | 10 | 2440 | 2/100 | Lo.00 I |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| . | | | | | | | | | | | | | | |
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| Recount S | count Sample # 1931 Recount | | | 2/100 | | | | | | | | | | |



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| Project Na | me: Pierce Co | ollege Ol | ympic Sout | th Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | - |
|-------------|---|--|---|-----------------------------------|--------------------|----------------------------------|-----------------|--|----------|-----------------|--|--------------|--------|--------|
| Project No | o.: 40535.488 | | | I.H. PETER STENS | LAND | | 1 | | | | | | | |
| Location: l | Lakewood, W | A | ,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u> | SAMPLE MEDIA/ANALYTICAI | L METHOD | : NIOSH | 1 | | | | | | | |
| Contractor | r: Dickson | | | 7400 | | İ | | | | | | | | |
| Client: DES | 5 | , | | | | ! | | | | | | | | |
| RELINQUI | ISHED BY (SI | GN.): | DATE/TIM | ΛE: | ANALYZEI Mug Sm | | IRA | 4 | DATE/I | rime: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | AE: | ANALYZEI | D BY: | ng N | | DATE/I | (IME: | | | | |
| CODES: | ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA TE SAMPLE NUMBER CODE PUM | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIC CLEARANG | NC | LE | GBA H | GLOVE E HEPA | BAG ARI | EA | | |
| DATE | | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 2/1 | | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | AOF | FLD | СС |
| 12/21/21 | I | | | FIELD BLANK - | | | | | | | | \downarrow | 100 | |
| | | | 200- | FIELD BLANK | | | - | | | | | <u> </u> | 0/100 | |
| —/ — | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP 1 C 939 B | | | | %100 | 0645 | 1346 | 421 | 4 | 4 | 4_ | 1684 | 10/100 | 0.003 |
| <u> </u> | SAMPLE NUMBER CODE PUMP 1 C838 B — C839 B — C840 OWA B297 C841 H G90 C842 H G109 | | | (Ext) EXHAUST 1@283 | 9/100 | 0647 | 1327 | 400 | 2_ | 2 | 2 | 800 | 2/100 | 40.005 |
| | | H | 6109 | ECE - EXHAUST I | 0/100 | 0650 | 1329 | 399 | 2.4 | 2.4 | 2.4 | 958 | %100 | <0.∞4 |
| | | H | 3055 | W. STAIRS -EXHAUST I | 0/100 | 0652 | 1333 | 401 | 2 | 2 | 2 | 802 | 2/100 | Ko.005 |
| | C844 | OWA | ሻዐ | LV3-@ DECON ENTRY | 0/100 | 0653 | 1345 | 412 | 5 | 5 | 5 | 2060 | 12/100 | 0.003 |
| | C845 | H | ०१५ | (Ext) EXHAUST 10 294 | 0/,00 | | 1335 | 402 | 2.1 | 2.1 | 2.1 | 844 | 1/100 | 40.005 |
| | C846 | οωA | 1696 | OLY N. CORRIDOR | 0/100 | | 1334 | 3900 | 4 | 4 | 4 | | | (0.003 |
| | C847 | H | 14V30A | ROOF - NEG AIR OG | 0/100 | 0705 | 1347 | | 4 | 4 | 4 | 1608 | %100 | 40.003 |
| | C848 | Н | 1698 | ROOF - NEG AIR OI | 0/100 | | 1347 | 1 | 4 | 4 | 4 | 1608) | 71 | (0.003 |
| | C849 | Awo | HV18-31 | LV 1 - AT LOADOUT | | 0714 | | 370 | 4 | 4 | 4 | 1480 | 4/100 | 40.003 |
| | C850 | IWA | 8504 | | | | 1005 | 165 | 4 | 4 | 4 | | 66/100 | 0.05 |
| 4 | C85 | | I I | LV 3 - W. CENT. WORK AREA | _ | _ | | | 5 | 5 | 5 | 1405 | | 1 |
| | | | | | | | | | | | | ,,,,,,, | 100 | |
| Recount Sa | ample # | | Recount | 11.5/100 | | | | | | | | | | |



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| Project Na | ıme: Pierce Co | ollege Ol | ympic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|-------------|--|-----------|------------|---|------------------|---------------------------------|-------------|---------------|----------|-----------------|--------|--------------|------------|-----------|
| Project No | o.: 40535.488 | | | I.H. PETER STE | NSLA | Z D | 1 | | | | | | | |
| Location: l | _akewood, W | A | | SAMPLE MEDIA/ANALYTICA | L METHOD: | NIOSH | 1 | | | - | | | | |
| Contracto | r: Dickson | | | 7400 | | | | | | | | | | |
| Client: DE | 5 | | | | | | | , , | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TIN | /IE: | ANALYZEI | BY: | 1 hd | | DATE/ | IME: | | TWA: | | |
| RECEIVED | BY (SiGN.): | | DATE/TIN | ΛE: | ANALYZEI | | | V | DATE/ | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | ĒA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 12/22/21 | C852 | В | _ | FIELD BLANK | | | | | | ! | > | 1/00 | _ | |
| 7 | C853 | В | - | FIELD BLANK | | | | | | | | | 0/100 | |
| | NUMBER CODE PUMP 1 C852 B - C853 B - C854 H 090 | | 090 | (EXT) EXHAUST 2, @ 283 | -5/100 | 0709 | 1413 | 424 | 2 | 2 | 2 | 968 | 2/100 | 40.004 |
| | C855 | H | 6109 | ECE EXHAUST 5 | | 0714 | 1416 | | 2.5 | 2.5 | 2.5 | 1065 | 1/100 | 40.004 |
| | C856 | H | 3055 | (EXT) EXHAUST 2@284 | .5/100 | 0716 | 1422 | 426 | 2 | 2 | 2 | 852 | 3/100 | Ko-004 |
| | C857 | H | 097 | W. STAIRS - EXLAUST 2 | 15/100 | 0718 | | 422 | 2 | 2 | 2 | 844 | 2/00 | 40.004 |
| | C858 | H | HV304 | ROOF-NEGAIR 08 | 5/00 | 0750 | | 399 | 4 | 4 | 4 | 1596 | 1100 | 60.003 |
| \Box | C859 | H | 1698 | ROOF-NEG AIR 02 | | 0752 | 1430 | 398 | 4 | 4 | 4 | 1592 | %00 | ⟨0.003 |
| <u></u> | C860 | auA. | 8297 | LV3 -@ DECONENTRY | | 0800 | | 386 | 4 | 4 | 4 | 1544 | 1/100 | 10.003 |
| | C861 | 0 W P | H V18-38 | LUI @ CLEAN ROOM | 5/00 | 0803 | 1426 | 377 | Ч | 4 | u' | 1508 | 7/100 | (0.003 |
| <u> </u> | C862 | OWA | 70 | LV3-@ CLEAN ROOM | | 0805 | | | 5 | 5 | 5 | 1960 | 13/100 | 60.002 |
| | c 863 | IUA | 211607 | LUB-W. CENTER | 1/00 | 0848 | 1345 | 297 | 4 | 4 | 4 | 1188 | 17/100 | 0.007 |
| | | | | | | | | | | | | | | 1 |
| Recount S | iample # | | Recount | 14/00 | | | | | | | | | | |



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| Project Na | me: Pierce Co | ollege Ol | ympic Sou | th Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|-------------|----------------------------------|-----------|-----------|-----------------------------------|---------------------|---------------------------------|-------------|---------------|----------|-----------------|----------------|-------|------------|-----------|
| Project No | .: 40535.488 | | | I.H. PETER STEN | SLANI | > | 1 | | | | | | | |
| Location: l | _akewood, W | A | | SAMPLE MEDIA/ANALYTICA | | | | | | | | | | |
| Contractor | : Dickson | | | 7400 | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ME: | ANALYZEI Michaei | D BY: | CLOK | | DATE/ | TIME: 8/2 | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | /ie: | ANALYZE | | | | DATE/ | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | Ą | C CLEARANCE A AMBIENT AIR 8 BLANK | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | ĒĀ | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | FLOW POST | I AVG | TOTAL | FIB FLD | FIB CC |
| 12/23/21 | 0864 | B | _ | FIELD BLANK | | | | | | | _ ` | %00 | ~ | |
| / | C865 | G | - | FIELD BLANK | | | | | | | _ | -> | 0/100 | ~ |
| | C866 | Ħ | 090 | (EAT) EXHAUST 3 @ 283 | %100 | 0702 | 1410 | 428 | 2 | 2 | 2 | 856 | 2/100 | 40.00 |
| | C867 | Н | 097 | ECE-EXHAUST 2 | 0/100 | 0 708 | 1412 | | 2 | 2 | 2 | 848 | %/100 | 40.004 |
| | C868 | owa | HV18-38 | LVIE CLEAN ROOM | 0/100 | 0708 | 1434 | 446 | Ч | 4 | 4 | 1784 | 1/100 | ₹0.002 |
| | c869 | H | 6109 | W. STARS -EXHAUST 3 | 0/100 | 0170 | 1414 | 424 | 2.4 | 2.4 | 2.4 | 1018 | 2/100 | (0.004) |
| | C870 | owA | 70 | LV3 - CLEAN ROOM | %100 | 0710 | 1432 | 442 | 5 | 5 | 5 | 2210 | | 0.006 |
| | C871 | H | 3055 | (EXT) EXHAUST 3 @ 284 | 9/100 | 0712 | 1416 | 424 | 2 | 2_ | 2 | 848 | 1/100 | K0.004 |
| ļ | C872 | OWA | 8297 | LV2 @ SKYBRIDGE (OADOUT | 9/100 | 0713 | 1432 | 439 | 4 | 4 | 4 | 1756 | 19/100 | 0.005 |
| Ц | C873 | OWA | | LV3, 04 N - LV 3 | 9/100 | 0718 | 1255 | 283 | 4 | 7 | 4 | 1132 | 0/100 | 40,004 |
| | C874 | H | HV30A | ROOF - NEG AIR 07 | %100 | 0728 | 1423 | 415 | 4 | 4 | 4 | 1660 | %00 | 10.003 |
| | C875 | <u>H</u> | 1698 | ROOF - NEG AIR 03 | 0/100 | 0730 | 1425 | 415 | 4 | 4 | 니 | 1660 | %00 | (6.063 |
| <u> </u> | C274 | IWA | 211607 | LU3-W. CENT AREA | °/100 | 0740 | 1155 | 255 | Ч | 4 | 4 | 1020 | 30/100 | 0.014 |
| | | <u> </u> | | | | | | | <u> </u> | | | | | ` |
| Recount S | lample # | | Recount | 32/00 | | | | | | - | | | | |



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| Project Na | me: Pierce Co | llege Oly | mpic Sout | Abatement and Repairs | | | WEATH | ER/TEMP: | | Comme | nts: | | | |
|-------------|---|-------------|-----------|---|--------------------|----------------------------------|-------------|---------------|----------------|-----------------|---------|--------------|------------|-----------|
| Project No | .: 40535.488 | | | I.H. PETER STENSL | AND | | | | | | | | | |
| Location: L | akewood, WA | 4 | | SAMPLE MEDIA/ANALYTICA | | NIOSH | | | | | | | | |
| Contractor | : Dickson | | | 7400 | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | E: | ANALYZED NIKESM |) BY: | 10 | 1 | DATE/1 12/2 | IME: 9/21 | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | E: | ANALYZEC | В₩: / | t | <u></u> | DATE/1 | - | | | | |
| CODES: | P PERSO IWA INSIDI OWA OUTSI | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANO | N | LE | GBA H | GLOVE E HEPA | BAG ARI | Α | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME ON | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 12/28/21 | | R | _ | FIELD BLANK | | | | | | - | | 77 | %100 | |
| 1 | | | | FIELD BLANK | | | | | | | | _ <u>_</u> | °/100 | |
| | OWA OUTSIDE AREA SAMPLE CODE PUMP | | | (EXT) EXHAUST 1@283 | 0/100 | 0704 | 1358 | 414 | 2 | 2 | 2 | 928 | 100 | 6.004 |
| | SAMPLE NUMBER CODE PUMP 1 C877 B — C878 B — C879 H 097 C880 H 090 | | | ECE - EXHANST 1 | | 0708 | 1400 | | 2.1 | 2.1 | 2.1 | 865 | %100 | <0.00¥ |
| | C881 | H | 6109 | W. STAIR - EXHAUST I | 0/100 | 071) | 1402 | | 2.4 | 2.4 | 2.4 | 986 | 2/00 | (0.004 |
| | C882 | H | 089 | (ext) EXHAUST 2@ 284 | | 0713 | 1464 | 41 | 2_ | 2 | 2 | 822 | 2/100 | 400.02 |
| | C883 | H | 1198 | ROOF-NEGAIR OI | 0/100 | 0718 | 1412 | 414 | Ц | 4 | 4 | 1656 | | Lo.003 |
| | (884 | οωΑ | 3055 | LV 3 - OLY N- CORRIDOR | | | 1407 | 408 | 2 | 2 | 2 | 810 | *X00 | 400,004 |
| | C885 | 17 | HV30A | ROOF - NEGAIROG | 0/100 | 0728 | 1412 | 404 | 4 | 4 | ч | 1616 | %00 | <0.003 |
| | | | HV18-34 | LV. I @ CLEAN ROOM | 0/100 | 0737 | 1426 | 403 | 4 | 4 | 4 | 1612 | 1/100 | 0.003 |
| | C887 | ow A | 8297 | LV2 SKYBRIDGE LOADOUT | %00 | 0740 | | | 4 | 4 | 4 | 1608 | 6/100 | <u> </u> |
| | C888 | IWA | 211607 | LV3- COUT. OF LEVEL | 0/100 | 0747 | 1242 | 241 | Ч | 4 | 4 | 964 | 16/00 | O.008 |
| | | | | | | | | | | | | | | |
| Recount S | ample# | r8870 | Recount | a/190 | | | | | | | | | | |



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| Project Na | me: Pierce Co | ollege Ol | ympic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|-------------|----------------------------------|-----------|---------------------------------------|-----------------------------------|------------------|----------------------------------|-------|---------|----------|---------|--------|--|---------|--------------|
| Project No | .: 40535.488 | ···· | · · · · · · · · · · · · · · · · · · · | I.H. FERMAN FLETCH | HER | | 1 | | | | | | | |
| Location: L | akewood, W | A | | SAMPLE MEDIA/ANALYTICA | | ; | 1 | | | | | | | |
| Contractor | : Dickson | | | | | | | | | | | | | |
| Client: DES | | | | | | | | , , | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZE | 1 - // | 11/ | 11 | DATE/I | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | <u> </u> | DATE/TIN | ΛE: | ANALYZEI | D BY: / | | N V | DATE/1 | IME: | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE I | BAG AR | EA | . • . • | , |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 127 / | NUMBER | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 12/29/21 | ୯୫୫୧ | <u>B</u> | | FIELD BLANK | | | | | | | | 7 | 100 | |
| | C890 | <u>B</u> | | FIELD BLANK | | | | | | | | <u> </u> | 1/100 | |
| <u> </u> | (891 | H | 6109 | (EXT) EXHAUST 2 @ 183 | 0/100 | 0657 | 1404 | 427 | 2.4 | 2.4 | 2.4 | | º/i00 | 40.004 |
| | C892 | H | 089 | ECE - EXHAUST 2 | 0/100 | 0659 | 1411 | 432 | 2-1 | 2.1 | 2.1 | 907 | 9/100 | 40.004 |
| | C893 | 14 | 090 | W. STAIRS-EXHAUST 2 | 6/100 | 0701 | 1413 | 432 | 2 | 2 | 2 | 864 | 9/100 | K0,004 |
| | C894 | <u>H</u> | 3055 | (EXT) EXHAUST 2 @284 | | 0703 | 1414 | 431 | 2 | 2 | 2 | 862 | 9/100 | 6.00 |
| | C895 | au A | 097 | LV3 - N. CORRIDOR | 0/100 | 10707 | 1414 | 427 | 2.1 | 2.1 | 2.1 | 897 | | (0.004 |
| | C896 | 14 | 1698 | ROOF - NEGAIR 02 | 0/100 | 0712 | 1421 | 429 | 14 | Ч | 4 | 1710 | 0/100 | 40.00 |
| | C897 | H | HV30A | ROOF . NEG AIR OI | 0/100 | 0712 | 142] | 429 | 4 | 4 | Ч | 1716 | 1/100 | ⟨0,∞2 |
| | C 898 | AWO | Hv18-39 | LVI- @ LOAD OUT | 0/100 | 0721 | 1428 | 427 | Щ | 4 | 4 | 1708 | 4/100 | 40.00 |
| | C899 | owA | | LV3-A LOADOUT | 0/100 | 0729 | 1430 | | 4 | 4 | U | 1724 | 16/100 | 0.005 |
| d | C900 | AWI | 211607 | LV3.CENT | 0/100 | | 1247 | CA | INT R | GA3 | ENCA | PSULAN" | ON 51 | MPLE |
| | | | | | | | | | | | | | | |
| " | | | | | | | | | | | | | | |
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| Recount S | ample# (| 899 | Recount | 14/100 | | | | | | | | | | |



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| Project Na | ime: Pierce Co | ollege Ol | ympic Sou | th Abatement and Repairs | , | | WEATH | IER/TEMP | : | Comme | nts: | _ | | |
|-------------|--|------------------|-------------|-----------------------------------|------------------|----------------------------------|-------------|-----------------|--|---------------|--------|--------------|-------------|-----------|
| Project No | o.: 40535.488 | | | I.H. Cameron Budni | ck | | 1 | | | | | | | |
| Location: I | _akewood, W | Ą | | SAMPLE MEDIA/ANALYTI | | • | 1 | | | | | | | |
| Contracto | r: Dickson | | | | | | | | | | | | | |
| Client: DE | 5 | | | | | | | | | ŀ | | | | |
| RELINQU | SHED BY (SI | GN.): | DATE/TIN | /IE: | ANALYZE | D BY: | 180 | | DATE/ /2/3 | TIME: 1/2/ | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | BY: | | 4 | DATE/ | | | | | |
| CODES: | IWA INSID | E AREA | Δ | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | NC | ·LE | GBA H | GLOVE I | BAG AR | EA | | <u> </u> |
| DATE | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA TE SAMPLE NUMBER CODE PUMP 21 C 901 & - C 902 & - C 903 & 097 C 904 & 089 | | | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | FLOW | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 1430/21 | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CQ01 CQ01 CQ02 CQ02 CQ03 CQ03 CQ04 CQ04 CQ04 CQ05 CQ05 CQ05 CQ06 CQ06 CQ07 CQ06 CQ07 CQ07 CQ07 CQ07 CQ07 CQ07 CQ07 CQ08 | | | | | | - | THALE | FRE | | AVG | 7 | 2/100 | |
| \ | | | | | - | | | | | | | <u> </u> | %100 | |
| | Caos | 1× | 097 | | 0/100 | 7:00 | 2:19 | 439 | 2 | 2 | 2 | 878 | 0/100 | Y0.004 |
| | C904 | M | 089 | | 0/100 | 7.03 | 2:17 | 434 | 1.4 | 1.4 | 1.4 | 608 | 0/100 | ₹0.005 |
| | C9 05 | H | | Ext 283 Ex 2 | 0/100 | 7:08 | 2:15 | 427 | 2.4 | 2.4 | 2.4 | 1024 | 9/100 | Ko.004 |
| | 6906 | 0WA | 3055 | LU3 N. Comidor | %100 | 7:15 | 2:05 | 410 | 1.% | 1.8 | 1.8 | 738 | 1/100 | 60.005 |
| | C907 | <u> </u> | HU30A | NAOR-ROOF | 0/100 | 7:15 | 2:08 | 4 03 | 4 | 4 | 4 | 1612 | 1/100 | 60.003 |
| | C908 | H | 1698 | NAOI-hoof | 0/100 | 7:26 | 2:04 | 403 | 4 | 4 | 4 | 1612 | 1/100 | 60.003 |
| | C404 | IWA | 111607 | Lu 3- Cent. | 0/100 | 7:32 | 1:50 | 378 | 4 | 4 | 4 | 1512 | 10%80 | 0.040 |
| <u> </u> | caig | H | ઇવ & | ECE Ex 4 | 0/100 | 7:40 | 2:16 | 396 | 2.2 | 1.2 | 2.2 | ४७। | 1/100 | Ko.004 |
| | | | | | | | <u> </u> | | <u> </u> | 1 | ļ | | | |
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| Recount S | ample # | a ₀ 3 | Recount | <u> </u> | | | <u> </u> | | | | | <u> </u> | | |



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| Project Na | me: Pierce Co | ollege Ol | ympic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|-------------|--|-----------|-------------|-------------------------|--------------------------------------|---------------------------------|-------|---------|----------|-----------------|--|---------------|-------|-----------------|
| Project No | .: 40535.488 | | | I.H. PETER STEN | SI Ani | | 1 | | | | | | | |
| Location: l | akewood, W | Ą | | SAMPLE MEDIA/ANALYTICA | L METHOD | ÷ | 1 | | | | | | | |
| Contracto | : Dickson | | | | | | | | | | | | | |
| Client: DES | | | | | | | | . 1 | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIM | IE: | ANALYZEI Mub Sm | | 16 | | DATE/1 | IME: /22 | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | IE: | ANALYZEI | D BY: | 7 | 1 | DATE/1 | | | | | |
| CODES: | PES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP 51/21 C911 B - | | | A AMBIENT AIR | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG ARI | ĒA | | |
| DATE | NQUISHED BY (SIGN.): DATE/I EIVED BY (SIGN.): DATE/I EIVED BY (SIGN.): DATE/I EIVED BY (SIGN.): DATE/I DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA ATE SAMPLE CODE PUMP IN A 1097 C914 H 3055 C915 H C90 C916 H C90 C917 OWA 089 C918 JWA 20 | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| . /] . | INQUISHED BY (SIGN.): DATE/TIME: DES: P PERSONAL CHARLE OWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER C912 B - 1 C912 B - 1 C914 B - 1 C915 H C90 W C916 H 6109 (64 C917 OWA 089 LV C918 OWA 20 LV | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 12/31/21 | - | | | FIELD BLANK | BLANK BLANK | | | | | | | * | 1/100 | |
| | | ···· | | FIELD BLANK | BLANK BLANK | | | | | | | \rightarrow | 9/100 | , - |
| | | | 097 | (EXT) EXHAUST 1 @ 283 | BLANK BLANK AVST 1 @ 283 .5/100 6732 | | | | 2.1 | 2-1 | 2.7 | 741 | 1/100 | 6.005 |
| | | H | 3055 | ECE -EXHAUST 4 | -5/00 | | 1326 | 352 | 2 | 2_ | 2 | 704 | 0/100 | 40.005 |
| | C915 | H | 090 | W. STAIRS EXHAUST 4 | .5/100 | 0735 | 1328 | 353 | 2 | 2 | 2 | 706 | 1/100 | 40.0€5 |
| | | Н | 6109 | (EXT) EXHAUST 4 @ 284 | -5/100 | 0738 | 1330 | 352 | 2.4 | 2.4 | 2.4 | 845 | 1100 | 40.004 |
| | | ou A | 089 | LV 3 - N. CORRIBOR | .5/100 | 0743 | 1334 | 351 | 2 | 2 | ح | 702 | 1/100 | C0.005 |
| | ८८ । ४ | JUA. | 20 | LV3 - @ LOADOUT | 5/100 | 0757 | 1 | 350 | 4 | 4 | 4 | 1400 | 8/100 | 0.003 |
| | C919 | AWE | 211607 | LV3 - CENT OF LEVEL | .5/100 | కింక | 1256 | | 4 | 4 | - - - - - - - - - - - | 1412 | 72/00 | 0.03 |
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| Recount S | ample # | 6918 | Recount | 1960 | | | | | | | | | | |



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| Project Na | me: Pierce Co | ollege Ol | ympic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP: | | Comme | nts: | · · · · · · · · · | | |
|---|----------------------------------|-----------|--------------|---|------------------|---------------------------------|------------|----------|----------|-----------------|-------------|-------------------|-----------------------------------|--------------|
| Project No | .: 40535.488 | | | I.H. KAITLIN SOUKUI | <u></u> Р | | | | | | | | | |
| Location: L | akewood, W | Ą | _ | SAMPLE MEDIA/ANALYTICA | L METHOD: | | | | | | | | | |
| Contractor | : Dickson | | | | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | 1E: | ANALYZE | | 141 | 4 | DATE/I | | / 22 | TWA: | *** ,, , , , , • , • . | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | MIKE S | | Justielly. | // | DATE/T | 7 1 / | <u> </u> | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | A. | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| \ | NUMBER | _ | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 1/3/22 | <u> </u> | B | - | FIELD BLANK | | | | | | | | | %00 | |
| | <u>c921</u> | B | - | FIELD BLANK | | | | | | | | 3 | %00 | |
| | c922 | ∘ಟA | | LV2-SKYBRIDGE | %00 | 0745 | 1402 | 377 | 4 | 4 | 4 | 1508 | 4/100 | 40.003 |
| Ц | 0923 | 14 | 3055 | (EAT) EXHAUST 3@ 283 | 0/100 | 0801 | 1411 | 370 | 2.1 | 2-1 | 2.1 | 777 | 0/100 | <0.∞5 |
| | c924 | H | 090 | ECE - EXHAUST 3 | 0/100 | 0803 | 1412 | 369 | 2 | 2 | 2 | 738 | | <u>که،ه۶</u> |
| | C925 | <u></u> | ७ ।७२ | W STAKS - EXHAUSTIZ | 0/100 | 0807 | 1411 | 362 | 2.5 | 2.5 | 2.4 | 869 | | 40.004 |
| | C926 | H | 097 | | 0/100 | | ļ | 363 | 2 | 2 | 2 | 726 | | 40.005 |
| | c927 | 1+ | 1698 | ROOF - NEG AIR 05 | 0/100 | 0816 | 1 | i | Ч | Ч | 7 | 1440 | | 40.003 |
| | C928 | H | HV.30A | | 0/100 | 817 | | 360 | 4 | 4 | 4 | 3440 | 0/100 | (0.003 |
| | C929 | IWA | | LN 3 - CENT OF LEVEL | 9/100 | | | | 4 | 4 | 4 | | 35/100 | 0.013 |
| Π. | | Awo | | LV3 - OLY N. GERIDOR | ن ست ا | 0824 | 1415 | 1, | 2 | 2 | Z | 702 | 14-5/100 | 0.010 |
| V | c931 | Αωο | 70 | LV 3 - @ CLEAN ROOM | | | | 328 | Ч | 4 | 4 | | 6/100 | (0.003 |
| | | | | | | | | | | | / | • | ,, | کیوں بیچ |
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| Recount Sa | ample # | c93\ | Recount | 6/100 | | | | | | | | | | 1 |



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|--------------------|---|---------------|------------|---|---------------------|---------------------------------|-------|-------------|----------|--|--|----------|--------|--------|
| Project No | .: 40535.488 | | | I.H. CLAIRE TSA | Γ. | | 1 | | | | | | | |
| Location: L | akewood, W | A | | SAMPLE MEDIA/ANALYTICA | | NIOSH | 1 | | | | | | | |
| Contractor | : Dickson | | | 7400 | | | | | | | | | | |
| Client: DES | | " | | | | | | | | and the Address of the Control of th | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIM | IE: " | ANALYZED MIKE Sm | BY: | 11/ | | DATE/I | IME: / 2.2 | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | TE: | ANALYZED | BY: | 7/ | | DATE/T | | | | | |
| CODES: | | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 1/12 / 1.0 | | 102 | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 1/4/22 | NUMBER CODE PUMI 12 937 B - / 933 B - | | | FIELD BLANK | | | | | <u> </u> | | | > | %100 | |
| - | 2 937 B - 933 B - | | | FIELD BLANK | 2/ | | 0 | 200 | . | | | <u> </u> | %100 | (2.622 |
| - / - | NUMBER | | | LV 2 @ LOADOUT | 9/100 | 0725 | 1355 | | 4 | 4 | 4 | 1560 | 7/100 | 40.003 |
| | 935 | οω Α | 3055 | LV 3 - N. CORRIDOR | | 0700 | 1405 | 425 | 2.2 | 2.2 | | 935 | 7/100 | 0.004 |
| <u> </u> | 936 | F | HV30A | ROOF - HEG AIR OB | 1 " | 0705 | | 423 | 4 | 4 | 4 | 1692 | 2/100 | 40-003 |
| <u> </u> | 937 | 17 | 1698 | ROOF- NEG AIR 04 | 9/100 | | 1409 | | ~ | 4 | 4 | 1684 | 2/100 | 40.003 |
| | 924 | H | 097 | (EXT) EXHAUST 2 @284 | | 0712 | 1402 | 410 | 2 | 2_ | 2 | 810 | 2/100 | K0.004 |
| | 939 | 1+ | 6109 | W. STAIRS - EXHAUST 2 | 100 | 0715 | 1401 | 4010 | 2.4 | 2.4 | 2.4 | | | K0.004 |
| | 940 | H | 089 | ECE - EXHAUST 5 | 0/100 | 0710 | 1359 | 409 | 2-2 | 2.2 | 2.2 | 900 | 1/100 | 40.004 |
| | 941 | H | 090 | (EXT) EXHAUST 2 @283 | 0/100 | | 1358 | 400 | 2 | 2 | 2 | 800 | 0/100 | <0.004 |
| 11 | I | OWA | | LV3 - CLEAN ROOM | 0/100 | 0727 | | 388 | 4 | 4 | ч | 1552 | - / | 0.003 |
| A | 941 17 090 | | | LV3-@ CENTER | 0/100 | 0729 | 1140 | 251 | 4 | Ч | 4 | 1004 | 13/100 | 0.000 |
| | | - | | * | | | | | | | | | | |
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| Recount S | l ample # | + | Recount | 13/100 | | | | | | | <u> </u> | | | |



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| Project Na | me: Pierce Co | ollege Oly | ympic Sout | th Abatement and Repairs | | | WEATH | ER/TEMP: | , | Comme | nts: | | | |
|-------------|---|------------|------------|-----------------------------------|---|----------|----------------|----------|----------|-----------------|------------|-----------------|-------|--------|
| Project No | .: 40535.488 | | | I.H. TOAN NOUYEN | | | 1 | | | | | | | |
| Location: L | akewood, W | 4 | | SAMPLE MEDIA/ANALYTICA | L METHOD: | NIOSH | | | | | | | | |
| Contractor | : Dickson | | | 7400 | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZEL Mike Sm | | 1/ | M | DATE/ | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | BY: | "t" | 4 | DATE/1 | | | | | |
| CODES: | | É AREA | \ | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | EXCURSIO | N | LE | GBA H | GLOVE E HEPA | BAG AR | ĒA | | |
| DATE | IWA INSIDE AREA A AMBIENT AIR EX EXCURSION H HEPA OWA OUTSIDE AREA B BLANK TEM CLEARANCE SAMPLE SAMPLE NUMBER CODE PUMP LOCATION ACTIVITY / PERSON AVG ON OFF TIME PRE POST AVG 1 944 B - FIELD BLANK | | | | | | | | AVG | TOTAL VOL | FIB FLD | FIB CC | | |
| 15/22 | 944 | B | _ | FIELD BLANK | AMBIENT AIR BLANK EX EXCURSION TEM CLEARANCE SAMPLE LOCATION ACTIVITY / PERSON AVG ON OFF TIME PRE POST AVG ELD BLANK ELD BLANK CE-EXHAUST 2 0/100 0 634 1320 406 2 2 2 | | | | | | | | %100 | ~ |
| / | 945 | B | _ | FIELD BLANK | | | | | | | | 7 | 0/100 | |
| 7 | 946 | H | 097 | l l | 0/100 | 0034 | 1320 | 406 | 2 | 2 | 2 | 812 | 1/100 | K0.004 |
| | 947 | H | 089 | W. STAKES - EXHAUST 3 | _ | 0612 | 1325 | | 2 | 1.8 | 1.9 | 804 | 2/100 | 40.004 |
| | 948 | H | P012 | (EXT) EXHAUST 3@283 | 0/100 | | 1320 | | | | 2.4 | 970 | 2/100 | 40.004 |
| | 949 | 4 | 090 | (EXT) EXHAUST 3 @ 284 | 0/100 | 0724 | 1335 | | 2 | 2 | 2 | 742 | °/100 | K0.005 |
| | 950 | OWA | 067 | | 0/100 | 0934 | 1345 | | 5 | 5 | 5 | 1255 | 2/100 | 50.004 |
| | 951 | Aug | 40 | LV3 - CLEANREOM | 0/100 | 0945 | 1315 | 210 | 4 | 4 | Ч | 840 | 6/100 | 0.004 |
| | 952 | IWA | 211607 | Lv3-@51207 | 0/100 | 0947 | 1230 | 143 | Ų | 4 | 4 | 652 | 34/00 | 0.03 |
| | 453 | OWA | HV19-9 | LV3-@ DODEWAY | 0/100 | 1020 | 1340 | 200 | 4 | 4 | 4 | ව රට | 2/100 | (0.004 |
| | 954 | 14 | HV30A | ROOF, NEG AIR 07 | 0/100 | 1025 | 1344 | 199 | 4 | 4 | 4 | 796 | 0/100 | KO.004 |
| - 1 | 955 | 14 | 1698 | ROOF-NEG AIR 03 | 0/100 | 1028 | 1343 | 195 | 4 | 4 | 4 | 780 | %00 | Lo.005 |
| | | | | | | | - | | | | <u> </u> | | | |
| Recount S | ample # | | Recount | 3/100 | | | | | | | | | | |



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| Project Na | me: Pierce C | ollege Ol | ympic Sout | th Abatement a | nd Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|--|--|-----------|------------|--|-----------------|--------------------|----------|----------|-------------|----------|---------|--|--------|--------|--|
| Project No | .: 40535.488 | | | I.H. — | JAN NGLYE | N | | 1 | | | | | | | |
| Location: L | akewood, W | Α | | SAMPLE I | MEDIA/ANALYTICA | L METHOD | • | 1 | | | | | | | |
| Contractor | : Dickson | | | \neg | IOSH 740 |)6 | | | | | | | | | |
| Client: DES | , | | | ` | , 00 | J | | | | | | | | | |
| | | GN.): | DATE/TIN | 1/06/22 | | ANALYZEI Kike S | BY: | Mile Co | A.X | DATE/ | TIME: | 2_ | TWA: | | |
| | | | DATE/TIN | ЛЕ: | | | | V | | | | | | | |
| CODES: | DATE/TIME DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUMP 16/22 956 OWA IFUR-9 957 OWA 070 | | | | | PRE EX TEM | EXCURSIO | N | LE | GBA H | GLOVE E | BAG AR | EA | | |
| DATE | pocation: Lakewood, WA pontractor: Dickson ient: DES ELINQUISHED BY (SIGN.): Coan liguage ECEIVED BY (SIGN.): DATE/TII DOES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUMP 16/22 956 Out HV19-4 957 OWA OFO | | | | | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 1/1/20 | Croject No.: 40535.488 cocation: Lakewood, WA Contractor: Dickson Client: DES RELINQUISHED BY (SIGN.): COMPANY (SIGN.): CODES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA | | | | | | ļ | | | PRE | POST | | VOL | FLD | CC |
| 1/6/20 | | | † | C CLEARANCE PRE PRE-ABATEMENT GBA GLOVE BAG AREA A AMBIENT AIR EX EXCURSION H HEPA B BLANK TEM CLEARANCE SAMPLE LOCATION BLANK TIME TIME TOTAL FLOW ACTIVITY / PERSON AVG ON OFF TIME PRE POST AVG A 3 rd FlOLY 5 Gudent lounge of 00 [665 1333 254 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | | | | 832 | | 40.004 | | |
| OWA OUTSIDE AREA B BLANK DATE SAMPLE RODE PUMP LOCATION ACTIVITY / PERSON 1/6/22 956 OWA 1449-4 3rd FlOLY 5 Gudent low 957 OWA 070 3rd FlClean room 958 TwA 267667 3rd FlSkybridge 959 B Field blank 1 | | | | | | | 13/3 | 274 | | 4 | 4 | 1096 | 3/100 | K0.004 | |
| | NUMBER ACTIVITY/PERSON (6/22 956 Out HUP-4 3rd FlOLY 5 Gudent 957 Ow4 070 3rd FlClean room 954 Int 20767 3rd Fl skybridge 959 B Field blank 1 | | | | Kybridge | 0/100 | 06391 | 1318 | 279 | 4 | 4 | 4 | 1116 | 9100 | 40.004 |
| | 959 | | | Field | | | | | | | | | | 7/100 | |
| | 960 | <u>B</u> | | Field | blank 2 | | | | | <u></u> | | | | %100 | |
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| Recount Sa | ample # | | Recount | | | | | <u> </u> | | | | | | | <u> </u> |



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| Project Na | me: Pierce Co | llege Ol | ympic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|--|----------------------------------|----------|------------|-----------------------------------|------------------|----------------------------------|----------|---------|--------------|----------|--------------|------------|---------|--|
| Project No | .: 40535.488 | | | I.H. TOAN N | | | 1 | | | | | | | |
| Location: L | akewood, W | Δ. | | SAMPLE MEDIA/ANALYTICA | L METHOD | NIOSH | 1 | | | | | | | |
| Contractor | : Dickson | | | 7400 | | | | | | | | | | |
| Client: DES | | | * * | | | | | 1 | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | 1E: | ANALYZEI | D BY: | IJX | #A | DATE/ | TIME: | · | TWA: | | · //· . · · · |
| RECEIVED | BY (SIGN.): | | DATE/TIN | NE: | ANALYZEI |) вү: ^{(™} | | 7 | DATE/ | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE E | BAG ARI | E A | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | . 1172 | TOTAL | FIB | FIB |
| 1/7/20 | NUMBER | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 1/7/22 | | B | | FIELD BLANK | | | | | | | | <u>ー</u> | 0/100 | <u> </u> |
| | <u>0962</u> | B | - | FIELD BLANK | | | 200 | -62 | 1 | | | 27 | 1100 | / .) |
| | $\overline{}$ | OWA. | 419-9 | LV3 OUTSID STUDENTLE | | | | 293 | Ц | 4 | 4 | 1172 | 3/100 | 40.004 |
| | C964 | H | HV30A | ROOF-NEGAIR OG | 0/100 | 0846 | | 293 | 4 | 4 | 14 | 1172 | 0/100 | 40.004 |
| | <u>c965</u> | H | 1498 | ROOF-NEGAIROL | 0/100 | 0847 | , | 292 | <u></u> | ų | 4 | 1168 | 1/100 | L0.004 |
| | C966 | - | 090 | LV2 W. STAIRWAY | 0/100 | 0908 | | | 2.5 | 2.5 | 2.5 | 660 | 1/100 | ⟨0,005 |
| | C967 | ωA. | | LV2 @ SKYBRIDGE' | 0/100 | 0909 | 1343 | 274 | 4 | 4 | 4 | 1096 | 2/100 | (0.004 |
| | C9108 | 1 | 089 | CEXT) EXHAUST @ 283 | 0/100 | 0904 | 1330 | 266 | 2 | 2 | 2 | 532 | 0/100 | 40.006 |
| <u> </u> | C969 | H | 097 | (EXT) EXHAUST 4@284 | 9/100 | 0905 | 133 | 266 | 2-5 | 2.5 | 2.5 | 665 | 9/100 | K0.005 |
| | C970 | OWN | 70 | LV3 @ CLEANROOM | 9/100 | 0913 | 1343 | 270 | 14 | Ч | 4 | 1080 | 6/100 | 60,004 |
| * | C971 | | 211607 | LV 3 CENT. OF AREA | 9/100 | 0919 | 1219 | 180 | ij | 4 | 4 | 720 | 31/100 | 0.02 |
| | 1 C970 OWN 70 | | | | | | | | | | , | | | |
| | C969 H C97 | | | | | | ļ | | | <u> </u> | | | | |
| | | ļ | <u> </u> | | | | <u> </u> | | | | <u> </u> | | | <u> </u> |
| | | | | 290/100 | | 1 | ļ | <u></u> | | <u> </u> | | | <u></u> | |
| Recount S. | ample# . | (III) | Recount | ドンへのか | l | 1 | 1 | | 1 | I | 1 | I | 1 | I |



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| Project Na | roject Name: Pierce College Olympic South roject No.: 40535.488 | | | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | <u> </u> | | |
|-------------|---|-------|----------|-----------------------------------|------------------|--|--------------|---------|----------|-----------------|--------|------------------|---------|--------|
| Project No | .: 40535.488 | | | I.H. TOAN NGUYE | <u>^1</u> | ······································ | | | | | | | | |
| Location: L | akewood, W | A | | SAMPLE MEDIA/ANALYTICA | | : | | | | | | | | |
| Contractor | : Dickson | | | | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| | | GN.): | DATE/TIN | ME: | ANALYZEI | BY: | 11/ | 1-1 | DATE/I | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | ANALYZE | | | 4~~ | DATE/I | | | | | |
| CODES: | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA PATE SAMPLE NUMBER CODE PUMP 122 C972 B 13 C973 B 14 C973 B 15 C973 B 16 C973 B 17 C973 B | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARANO | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA . | | |
| DATE | SE P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA TE NUMBER CODE PUMP C973 B C974 WA HV9- C975 H HV30 | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 1/ / | IQUISHED BY (SIGN.): DATE/I IVED BY (SIGN.): | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 110/22 | E P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA E SAMPLE NUMBER CODE PUMP 12 C972 B - C973 B - C974 WA HV9-C976 H HV306 C976 H 1698 | | | FIELD BLANK | | | | | | | | | 0/100 | |
| | SAMPLE NUMBER CODE PUMP 22 C942 B - C943 B - C944 OUA HV9- | | | FIELD BLANK | | | | | | | | 37 | 0/100 | _ |
| | IWA INSIDE AREA OWA OUTSIDE AREA TE SAMPLE NUMBER CODE PUMP 22 C972 B C973 B C974 WA HV9-9 C975 H HV30A C976 H 1698 | | | LV 3-OUTSIDE STUDENT LOS | NGE YOU | 0725 | 1337 | 372 | 4 | 4 | 4 | 1488 | 5.5/100 | <0.003 |
| | OWA OUTSIDE AREA TE SAMPLE NUMBER CODE PUMP 22 C972 B - C973 B - C974 CWA HV9-9 C976 H HV306 C976 H 1698 | | | ROOF- NEG AIR 08 | 0/100 | 0730 | 1342 | 372 | 4 | 4 | 4 | 1488 | 1/100 | 50.003 |
| | C976 | 1-1 | 1698 | ROOF - NEG AUR GR | 0/100 | 0732 | 1341 | 369 | 4 | 4 | Ÿ | 1476 | 1/100 | Ko.003 |
| | C977 | H | 089 | W. STAIRS-EXHAUST I | 0/100 | 0745 | <i>133</i> 3 | 348 | 2.5 | 2.5 | 2.5 | 9 7 0 | %100 | 60.004 |
| | C978 | Н | 097 | (EXT) EXHAUST 1 @ 183 | 0/100 | 0746 | 1332 | 346 | 2.5 | 2.5 | 2.5 | 865 | | Ko.004 |
| | C979 | H | ०९० | (EXT) EXHAUST 3@ 284 | %00 | 0750 | 1330 | 340 | 2.5 | 2.5 | 2.5 | 850 | | 40.004 |
| | ୯୧୫୭ | Awo | 8297 | LV1@ CLEAN ROOM | %00 | 0815 | | 30'7 | 4 | 4 | 4 | 1228 | 1.1 | 0.006 |
| | C981 | σωΑ | 207611 | LV2-SKYBRIDGE LOADOUT | | | 1321 | | 4 | 4 | 4 | 1216 | | 40.004 |
| | C982 | | I | LU3@ CLEAN ROOM | 0/100 | 0820 | 1352 | , | 4 | 4 | Ч | 1328 | | 0.003 |
| ΛI | C981 OWA 207611 LV C982 OWA 70 LV | | | LV3 OPPEVIOUS Rm 337 | | 0835 | | | 4 | 4 | Ч | 1112 | | (0.004 |
| | 1 (983 IWA 211607 | | 208518 | | 9/100 | 0854 | 1359 | 365 | 5 | 5 | 5 | | LOADE | |
| <u> </u> | , | | | | | | | | | | | | | |
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| Recount Sa | ample # | C974 | Recount | 6.5/100 | | | | | | | | | | |



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| Project No | .: 40535.488 | | | I.H. TOAN NGUYE. | | | 1 | | | 200 200 200 200 200 200 200 200 200 200 | | | | |
| Location: I | _akewood, W | Δ. | | SAMPLE MEDIA/ANALYTICA | L METHOD: | NIOSH | | | | Rankon Karamana Maria | | | | |
| Contracto | r: Dickson | | | 7400 | | | | | | | | | | |
| Client: DES | 5 | | | | | | | 1. | | *************************************** | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | Æ: | ANALYZEI MIKE SM | | | 1/ | DATE/ | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | | w. | <u> </u> | DATE/ | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG ARI | EA | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 1/. 100 | NUMBER | ; > | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 1/1/22 | | B | | FIELD BLANK | | | | | | | | | 1/100 | (|
| | <u>0986</u> | B | - | FIELD BLANK | | | | | <u> </u> | | | | 0/100 | |
| | 2987 | OWA | HV19-9 | OUTSIDE OF STUDENTLO | | | | 364 | 4 | 14 | 4 | 1456 | 1/100 | (0.003 |
| | 6988 | H | | ROOF- NEG AUR 07 | 15/100 | 0742 | 1345 | 363 | 4 | 4 | 4 | 1452 | %00 | 40,003 |
| <u> </u> | c989 | 17 | 1698 | ROOF- NEG AIR 03 | 100 | 0745 | 1345 | 360 | 4 | 4 | 14 | 1440 | %00 | 40.003 |
| | C990 | H | 090 | (EXT) EXHAUST 2@283 | 100 | 0750 | | | 3 | 3 | 3 | 1032 | 1/100 | 40-004 |
| | C991 | 1-1 | 089 | W, STAIRS-EXHAUST 2 | 5/100 | 0752 | 1335 | 343 | 2.5 | 2.5 | 2.5 | 856 | 3/100 | 10,004 |
| | C992 | H | 097 | (EXT) EXHAUST 3@284 | 15/100 | 875F | 1331 | 334 | 3 | 3 | 3 | 1002 | %100 | 40,004 |
| | C993 | OVA | 207607 | LV2 SKYBRIDE E | 15/100 | 0803 | 1.320 | 317 | Ч | 4 | Ч | 1268 | 1/100 | L0,003 |
| \ | C994 | σωΑ | 70 | LV3 @ CLEANROOM | 15/100 | 1 | 1138 | 212 | 4 | 4 | 4 | 848 | 6/100 | 0.003 |
| , and a second | C995 | owA | 211607 | Lv3 @ 0337 | .5/100 | 0822 | 1140 | | 4 | 4 | 4 | 792 | 12/100 | 0.007 |
| NIV | C996 | σωΑ | 8297 | LVI ENTRY TO ENCIOSIS | | 0850 | | 270 | 5 | 5 | 5 | 1350 | 19/100 | F00.0 |
| 1// | C997 | IWA | | LVI IN CLEANING ROOM | 1 05/100 | 0900 | | 315 | 2.5 | | 2.5 | | 79/100 | 0.050 |
| M | 0998 | | | LV2 CENT OF LEVEL | 05/100 | 0905 | | 204 | 5 | 5 | 5 | 1020 | 33/100 | 0.020 |
| | | | | | 1 | 1 | | 1 | | | | | , , , , , | <u> </u> |
| Recount S | amnle # | ragin | Recount | 20/00 | | <u> </u> | | <u> </u> | 1 | | | | | |



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| Project Na | me: Pierce Co | ollege Ol | ympic Sou | th Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|--|--|-----------|-----------|---------------------------------------|--------------------|----------------------------------|--------------|---------|--------|-----------------|---------|-------|--------|----------------|
| Project No | .: 40535.488 | | | I.H. TOAN NGUY | EN | | | | | | | | | |
| Location: L | akewood, W | A | | SAMPLE MEDIA/ANALYTIĆA | L METHOD | : | | | | | | | | |
| Contractor | : Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | ······································ | | ** | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ME: | ANALYZE | BY: | | | DATE/T | IME: | | TWA: | | |
| | | | DATE/TIN | | ANALYZEI MikeSn | word/2/ | | | | 122 | | | | |
| | EIVED BY (SIGN.): DATE/TI DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 22 (999 B - CIDO B CWA HV9-9 | | | C CLEARANCE A AMBIENT AIR B BLANK | PŘE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA ' | GLOVE E HEPA | BAG ARI | ĒA | | |
| DATE | IQUISHED BY (SIGN.): DATE/I IVED BY (SIGN.): DATE/I IS: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA TE SAMPLE RUMBER CODE PUMP CIOD B - CIOD | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 1/12/22 | No.: 40535.488 on: Lakewood, WA ctor: Dickson DES QUISHED BY (SIGN.): DATE/ /ED BY (SIGN.): DATE/ S: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA E SAMPLE CODE PUMI 2 (999 B - C100 B - C100 B - C100 B H 1698 C100 B H 090 C100 B H 097 C100 B H 097 C100 B H 097 C100 B CWA 20706 C100 B CWA 20706 C100 B CWA 20706 C100 B CWA 20706 C100 B CWA 20706 | | | | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | <u> </u> |
| 1-/21 | SAMPLE NUMBER CODE PUMP LOCATION ACTIVITY / PERSON CIDOO B - FIELD BLANK CIDOO B - FIELD BLANK CIDOO B - FIELD BLANK CIDOO B - FIELD BLANK | | | - | | | | | | | | | %00 | |
| - / - | NUMBER C1000 B - | | | | 2/ | | <u> </u> | | | | | 1 | %00 | _ |
| - | 2 (999 B - C1000 B - C1001 OWA HV9-9 | | | OUTSIDE STUDENT LOUNGE | T | 0737 | | · | 4 | 4 | 4 | 1452 | 2/100 | |
| | | | HV30A | ROOF-NEGAIR 08 | | 0743 | 1345 | 362 | 4 | 4 | 4 | 1438 | 001/0 | <u> </u> |
| | C1003 | | 1698 | ROOF - NEG AIR 04 | 6/100 | 0744 | 1345 | 36) | 4 | 4 | 4 | 13434 | 2/100 | <0.003 |
| | C 1004 | H | 090 | (ExT) EXHAUST 4 @ 283 | 100 | 0755 | 1333 | 338 | 2-6 | 2.6 | 2.6 | 879 | 9/100 | 60.004 |
| | C 1005 | H | 089 | W. STAIRS . EXHAUST 4 | 1/100 | 0756 | 1334 | 338 | 3 | 3 | 3 | 1014 | 0/100 | 40.004 |
| | Cloblo | H | 097 | (ExT) EXHAUST 2 @ 284 | 1/100 | 000 | 1331 | 331 | 2.5 | 2.5 | 2.5 | 828 | 0/100 | 60.004 |
| | C1007 | Ow A | 207067 | LV2 @ SKY BRIDGE | %00 | 0804 | 1326 | 322 | 4 | 4 | 4 | 1288 | 4/100 | ∠ه-∞3 |
| | C 1008 | OWA | 070 | LV3 CLEAN ROOM | 0/100 | 0805 | 1354 | 349 | 4 | 4 | 4 | 1396 | 11/100 | 0.004 |
| λ_1 | 1 - | - X | 1 | · · · · · · · · · · · · · · · · · · · | 0/100 | 0825 | 1030 | 125 | 4 | 4 | 4 | 500 | 16/100 | 0.016 |
| V | J C 1009 INA 211607 LV3 - @ B | | | LVI @ CLEANROOM | 100 | 0847 | | 275 | 4 | 4 | 4 | ١,100 | 14/100 | 0.006 |
| | 1 C1009 IWA 211607 | | | | | | | | | | | | | |
| Recount Sa | ample # | C1010 | Recount | 15/100 | | | | | | | | | | _ - |



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| Project Na | me: Pierce Co | ollege Ol | ympic Sout | th Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
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| Project No | .: 40535.488 | | | I.H. TOAN NGWEN | | | 1 | | | | | | | |
| Location: L | akewood, W | Ą | | SAMPLE MEDIA/ANALYTICA | L METHOD: | NIOSH | | | | | | | | |
| Contractor | : Dickson | | | 7400 | | | | | | | | | | |
| Client: DES | 5 | | | ······································ | | | | _ | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZEI MHG ST |) BY: | 116 | A. | DATE/ | IME: + / 2.2 | - | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ME: | ANALYZE | | | | DATE/1 | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA PATE SAMPLE NUMBER CODE PUMP 13/22 C 1011 B - | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG ARI | Ā | | |
| DATE | INQUISHED BY (SIGN.): DATE/TO EIVED BY (SIGN.): DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER C1012 G C1012 G C1013 OWA HV19-9 C1015 H 1698 C1016 H 966 C1017 H 6109 C1018 H 089 C1019 OWA 8295 C1020 OWA 20706 | | | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME ON | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 1/13/22 | C 1011 | ৪ | | FIELD BLANK | | | | | | | | > | %00 | _ |
| | VED BY (SIGN.): DATE/TIME: S: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA B BLANK TE SAMPLE NUMBER CODE PUMP ACTIVITY / PERSO C 1011 B - FIELD BLANK C 1012 B - FIELD BLANK C 1013 OWA HVIG-9 OUTSIDE OF STUDENT C 1014 H HV30A ROOF - NEGAIR C 1015 H 1698 ROOF - NEGAIR C 1017 H 6109 W. STAIR EXHAUST 3 (C 1018 H 089 (EXT) EXHAUST 1 (C 1019 OWA 8297 LV 1 - CLEAN F | | | | | | | | | | | >> | %00 | _ |
| 7 | IWA INSIDE AREA A OWA OUTSIDE AREA B ATE SAMPLE CODE PUMP 122 C 1011 B - | | | OUTSIDE OF STUDENT LOUNGE | %00 | 0743 | 1332 | 349 | 4 | ч | ч | 1396 | 0/100 | €0.003 |
| | NUMBER CODE PUMP 122 C 1011 B - | | HV36A | ROOF - NEGAIR 06 | 0/100 | | ł | | 4 | 4 | Ц | 1348 | | 60.00 3 |
| | Clois | <u> </u> | 1698 | ROOF - NEGAIR 05 | | 6803 | 1337 | 334 | 4 | 니 | ч | 1336 | | ⟨0,∞3 |
| | Cloth | Н | 096 | (EXT) EXHAUST 3 @ 288 | | 0812 | 1325 | 'ما | 3 | 3 | 3 | 939 | 0/100 | (0.004 |
| | C1017 | 14 | 6109 | W. STAIR EXHAUST 4 | 6/100 | 0813 | 1324 | 311 | 2.6 | 2.60 | 2.4 | 809 | | Co.004 |
| | C1018 | 1-4 | 089 | (EXT) EXHAUST 1@ 284 | | 0817 | | 1 | 2.7 | 2.7 | 2-7 | 826 | 1/100 | 400.03 |
| | 01019 | οωΑ | 8297 | LV 1 - CLEAN ROOM | | 0821 | | | 7 | 4 | 4 | 1184 | 4/100 | Ko-004 |
| | C1020 | οωA | 207067 | LV2 - LOADOUT-SKYBrIDG | | 0813 | | | 4 | 4 | 4 | 1160 | 8.5/100 | 0.004 |
| 7 | C1021 | οωΑ | 70 | LV3 - @ CLEAN ROOM | 0/100 | 0825 | 1369 | 284 | 4 | 4 | 4 | 1136 | | <0.004 |
| | C1020 OWA 207067 | | | | | | | | | | | | | |
| | | | - | | | | | | | | | | | |
| Recount S | ample # | 2002 | Recount | 6/20 | | | | | | | | | | |



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| Project Na | me: Pierce Co | llege Ol | ympic Sout | th Abatement and Repairs | | | WEATH | ER/TEMP: | | Comme | nts: | ····· | | |
|-------------|------------------|--|------------|---|--------------------|---------------------------------|-------|--|--|-----------------|------------|-------------|---------|----------------|
| Project No | .: 40535.488 | | | I.H. FERMAN FLETCH | IER | | | | | | | | | |
| Location: L | akewood, W | 4 | ^ | SAMPLE MEDIA/ANALYTICAL | | NIOSH | | | | | | | | |
| Contractor | : Dickson | | | 7400 | | | | | | | | | | , |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZED MIKE S | BY: | 17/ | | DATE/I | IME: 1/22 | - | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE; | ANALYZEI | | | <i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i> | DATE/T | | | | | |
| CODES: | | E AREA | 1 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG ARI | EA . | | |
| DATE | SAMPLE NUMBER | OUTSIDE AREA B BLANK TEM CLEARANCE SAMPLE PLE BER CODE PUMP LOCATION ACTIVITY / PERSON AVG ON OFF TIME PRE POST AVG | | | | | | | | TOTAL VOL | FIB FLD | FIB CC | | |
| 1/14/22 | C1022 | В | - | FIELD BLANK | | | | | | . 00. | | | 0/100 | |
| 1 | C1023 | В | | FIELD BLANK | | | | | | | | ~ | 8/100 | _ |
| 1 | C1024 | 14 | 690 | W. STAIR EXHAUST 3(N | 0/100 | 0737 | 1346 | 369 | 2.5 | 2.5 | 2.5 | 923 | 0/100 | ₹ 0.004 |
| | C1025 | Н | 089 | W. STAIR EMAUST 2 (5) | - | 0742 | | 360 | 2.5 | | | 900 | 1/_ | (0.004 |
| | C1026 | Н | ०।७ | ECE - EXHAUST 4 | 0/100 | | 1350 | | 4 | 4 | 4 | 1456 | | ⟨0.003 |
| | C1027 | Н | 6109 | E. STAIRS EXHAUST 1 | 0/100 | 0749 | 1352 | 363 | 2.5 | 2.5 | 2.5 | 908 | 2/100 | <0.004 |
| | C1028 | owA | 206459 | OUTSIDE OF STUDENT LOUNGE | 0/100 | 675la | 1354 | 358 | 3 | 3 | 3 | 1074 | | <0.004 |
| | C1029 | 14 | HV30A | ROOF-NEG AIR 06 | 0/100 | 0800 | 1402 | 362 | 4 | 4 | 4 | 1448 | - T | <0.003 |
| | C1030 | H | 8501 | ROOF-NEG AIR OS | %100 | 0802 | 1402 | 360 | 4 | 니 | Ü | 1440 | 0/100 | €0.003 |
| | C1031 | oωA | 8294 | LUI @ CLEAN ROOM | | | 1401 | 350 | 4 | 4 | 4 | 1400 | 17/100 | 0.006 |
| | C1032 | AWO | 70 | LV 3 @ CLEAN ROOM | 0/100 | 0814 | 1411 | 357 | 5 | 5 | 5 | 1785 | 5.5/100 | <0.002 |
| | C1033 | IWA | 258518 | Lv2 | 0/100 | 0827 | 1406 | 338 | 5 | 5 | 5 | | | ED(1690 |
| | | | | | | | | 1 | | | | | | |
| | | | | | | - | - | | | <u> </u> | <u> </u> | | - | |
| Recount S | I ample # | 1028 | Recount | 1/100 | | | | | | | | | _ | |



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| Project Name: Pierce College Olympic South Project No.: 40535.488 | | | | th Abatemen | t and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|--|--|--|----------|-------------|-------------------|---------------------|---------------------------------|----------|------------|----------|----------------------|---------|-----------|----------------|------------------|
| Project No | .: 40535.488 | | | I.H. | | | | | | | | | | | |
| Location: L | akewood, W | A | | 1 | E MEDIA/ANALYTICA | L METHOD | : NIOSH | İ | | | | | | | |
| Contractor | : Dickson | | ***** | 7400 | | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | 1E: | | ANALYZE | | 114 | M | DATE/I | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | , | DATE/TIN | ΛE: | | MIKE SA ANALYŽEI | | (h.V) | h/Y | DATE/I | <u>/</u> 2ユ_ IME: | | | | |
| CODES: | CEIVED BY (SIGN.): DATE/TO DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUMP 18/22 C1034 B - C1035 B - C1036 CWA HVA- C1037 H HV306 | | | A AMBIEI | NT AIR | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG ARI | A | | .,, |
| DATE | CIOYO H 090 CIOYO H 090 CIOYO H 090 CIOYO H 090 CIOYO H 090 CIOYO H 090 CIOYO H 090 CIOYO H 090 CIOYO H 097 | | | | LOCATION | BLANK AVG | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 1/18/20 | Et No.: 40535.488 Ion: Lakewood, WA actor: Dickson : DES IQUISHED BY (SIGN.): DATE/ IVED BY (SIGN | | | - | ···· | AVG | UN | OFF | TIME | PRE | POST | AVG | VOL | FLD °/100 | CC |
| / / | _ | | | | | | | | | | | | > | 0/100 | |
| $-\!\!\!/-$ | | PERSONAL WA INSIDE AREA WA INSIDE AREA DWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP LOCATION ACTIVITY / PEI LIO34 B FIELD BLAN C1036 CWA HVM-9 OUTSIDE OF STUDE C1037 H HV30A ROF-NES AN C1039 H OPO LU 2 GW STOW | | | | 0/100 | 7-2 | 10.01 | 351 | ч | Ч | Ц |) I I o G | 9/100 | / 0 |
| | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUM C1034 C1035 C1036 C1036 C1037 H HV30 C1039 C1040 H 099 C1040 H 090 | | | | | 0/100 | 0732 | 1324 | 352 348 | 4 | 4 | 1 | 1408 | 2/100 2/100 | <u> </u> |
| 1 | C1035 B - C1036 CMA HUA- C1037 H HU30A | | | | • | 0/100 | 074 | | 357 | 4 | 4 | 4 | 1428 | | <u> </u> |
| | | H | l . | | | | 0749 | | | 3 | 3 | 3 | | 1/100 2/100 | (n.003 |
| | | Н | | | | | 0750 | | 341 | 3 | 3 | 3 | 1023 | 3/100 | 50.004 50.004 |
| | i - | H | | | EXHAUST 2 | 0/100 | • | | 342 | 2.5 | 2.5 | 2.5 | 855 | 100 | <0.004 <0.004 |
| | | | 6109 | | 1AUST 1 @ 284 | | 1 | 1336 | | 3 | 3 | 3 | 1020 | 1/100 | 40,004 |
| | C1043 | οωA | 8297 | | e CLEAN ROOM | 0/100 | | 1342 | | Ч | 4 | 4 | 1372 | 10/ | 0.006 |
| | C1044 | ow A | 207067 | | SKYBAJOP LOADOU | | | 1344 | 341 | ч | 4 | 4 | 1364 | - 2 | 0.004 |
| \mathcal{U} | | | | | CLEANROOM | | 0806 | 1343 | 337 | 4 | 4 | Ч | 1348 | | 0.005 |
| 4 | C1045 OWA 070 | | Lv2- | ATT LOUNGE | 0/100 | | 1404 | | Ч | Ч | 4 | 56B | OVERLO | ADED . | |
| | OWA OUTSIDE AREA DATE NUMBER CODE PUMP (18/22 C1034 B - C1035 B - C1036 CMA HVM- C1037 H HV304 C1038 H 1698 C1039 H 089 C1040 H 090 C1041 H 097 C1042 H 6109 C1043 OWA 8297 C1044 OWA 207067 C1046 IWA 208518 | | | | | | | <u>'</u> | | | , <u> </u> | | | | |
| CIO40 H CIO42 H CIO43 OWA CIO44 OWA CIO46 IWA | | | | 10 / a | | | | | | | <u> </u> | | | | |
| kecount Sa | ampie# | CAOTO | Recount | 18/100 | | | 1 | L | | | | | | | |



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| Project Na | me: Pierce Co | llege Ol | ympic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP: | | Comme | nts: | • | | |
|-------------|---|------------------|------------|---|----------------------|----------------------------------|-------------|--|----------|-----------------|---------|--------------|------------|-----------|
| Project No | .: 40535.488 | | | I.H. | | | | | | | | | | |
| Location: L | akewood, WA | 4 | | SAMPLE MEDIA/ANALYTICA | L METHOD: | NIOSH | | | | | | | | |
| Contractor | : Dickson | | | 7400 | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIM | IE: | ANALYZED MIKESINI | | i lez | 14 | DATE/1 | IME: | | TWA: | | |
| RECEIVED | IWA INSIDE AREA OWA OUTSIDE AREA PATE SAMPLE NUMBER CODE PUMP | | | lE: | ANALYZE | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | DATE/1 | | | | | |
| | IVED BY (SIGN.): ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA TE SAMPLE NUMBER CODE PUMI 1221 C1047 R ~ C1048 R ~ C1049 OWA HV19- | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANG | N | LE | GBA H | GLOVE I HEPA | BAG ARE | A | | |
| DATE | | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME ON | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 1/19/22 | C1047 | B | ~ | FIELD BLANK | | | | | | | | | P %100 | |
| /: | i | | | FIELD BLANK | | | | | | | | 7 | 0/100 | |
| | C1049 | ى _ن A | 4219-9 | OUTSIDE STUDENT LOUNGE | 0/100 | 0780 | 1245 | 315 | 4 | 4 | 4 | 1260 | 3/100 | 40.003 |
| | C1050 | οωΑ | 8297 | LVI - CLEAN ROOM | 0/100 | | | 320 | 5 | 5 | 5 | 1630 | | 0.005 |
| | C1051 | H | 1698 | ROOF- NEG AIR 02 | 0/100 | 0738 | 1253 | 315 | Ŧ | 4 | 4 | 1260 | | |
| | C1052 | + | HUBOA | ROOF-NEG AIR 08 | | 0740 | 1252 | 312 | 4 | 4 | 4 | 1248 | | ₹0.003 |
| | C 1053 | INA | 208318 | LV2 - CENTER | 9/100 | 0742 | 1042 | 180 | 4 | 4 | 4 | 957 | over | LOAD |
| | C1054 | 14 | 097 | (ENT) EXHAUST 3 @ 283 | 0/100 | 0746 | 1305 | 319 | 3 | 3 | 3 | 790 | 0/100 . | (0.004 |
| | C 1055 | Н | 109 | W. STAYRS EXHAUST 3 | 0/100 | 0749 | 1305 | 314 | 2.5 | 2.5 | 2.5 | 790 | 3/100 | 40.004 |
| Δ L | C1056 | 17 | 090 | ECE-EXHAUST I | 0/100 | 0753 | 1303 | 310 | 2.5 | 2.5 | 2.5 | 775 | 100 | 40.004 |
| 7 | C1057 | H | 089 | (EXT) EXHAUST 1 @ 284 | _ / | 0756 | 1302 | 300 | 3 | 3 | 3 | 918 | 1/100 | 40.004 |
| | | | | | | | <u> </u> | | | | | | | |
| | | | | | | | | | | | | | | |
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| Recount Sa | ample # | 11055 | Recount | 3/100 | | } | | | | <u> </u> | | | | |



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| Project Na | me: Pierce Co | ollege OI | ympic Sout | th Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|-------------|----------------------------------|-----------|------------|-----------------------------------|------------------|--|--|---------|--|--|--------|----------|-----------|--------|
| Project No | .: 40535.488 | | | I.H. | | | | | | | | | | |
| Location: L | akewood, W | A | | SAMPLE MEDIA/ANALYTICA | L METHOD | : | 1 | | | | | | | |
| Contractor | r: Dickson | | | | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZE | D BY: | 11/6 | 1A | DATE/ | IME: | _ | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | D BY: | | Y | DATE/ | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | 'LE | GBA H | GLOVE I HEPA | BAG AR | ĒA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | 1446 | TOTAL | FIB | FIB |
| 1/20/22 | | 13 | | ACTIVITY / PERSON | AVG | UN | UFF | TIME | PRE | POST | AVG | VOL | FLD 1/100 | cc |
| 12012 | C1059 | <i>S</i> | | FIELD BLANK | _ | | | | | | | - | 1/100 | _ |
| | C1060 | οωΑ | 097 | LV. 2 @ LOADOUT | 1/100 | 0744 | 1301 | 340 | 4 | 4 | 4 | 1360 | 2/100 | ⟨o.003 |
| | C1061 | 1-1 | 207667 | - \ | 1/100 | 0749 | | 355 | 2.5 | 2.5 | 2.5 | 888 | 0/100 | <0.∞4 |
| | C1062 | Н | 6109 | W. STAIRS EXHAUSTY | | | | 346 | 2.5 | | _ | | 1/100 | 40.004 |
| | C1063 | H | 089 | ECE - EXHAUST 3 | 1 * | | 1333 | | 2.5 | 2.5 | 2.5 | 850 | 1/100 | 40.004 |
| V | C1064 | H | 090 | EXT)EXHAUST3@283 | t | 0755 | 133 | 336 | 2.5 | 2.5 | 2.5 | 840 | 1/100 | <0-00f |
| | | | | | | | ļ | 1 | ļ | | | | | |
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| Recount S | ample # | CIOBY | Recount | 1100 | | 1 | | | | <u> </u> | | <u> </u> | | |



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| Project Na | Project Name: Pierce College Olympic South | | | th Abatement and Repairs | · · · · · · · · · · · · · · · · · · · | | WEATH | IER/TEMP |) <u>.</u> | Comm | ents: | | | · · · · · · · · · · · · · · · · · · · |
|--------------|--|--|----------|---|---------------------------------------|---------------------------------|------------------|---------------|------------|-----------------|--------|-------|--------|---------------------------------------|
| Project No | o.: 40535.488 | | | I.H. | | | 1 | | | | | | | |
| Location: | Lakewood, W | ′ A | | SAMPLE MEDIA/ANALYTICA | L METHOD |): | 1 | | | | | | | |
| Contracto | r: Dickson | | | | | | | | | | | | | |
| Client: DE: | 5 | | ··· | | | | | | | | | | | |
| RELINQU | ISHED BY (SI | | DATE/TIN | /IE: | ANALYZE | D BY: | TIL | | DATE/ | | * | TWA: | | <u> </u> |
| | | | DATE/TIN | ΛE: | ANALYZE | D BY: | May 2 | ** | DATE/ | | | | | |
| CODES: | DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 1/22 C1065 B - C1066 B - | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | 'LE | GBA H | GLOVE I HEPA | BAG AR | EA | · | |
| DATE | IWA INSIDE AREA OWA OUTSIDE AREA B BLANK E SAMPLE NUMBER CODE PUMP LOCATION ACTIVITY / PERSON 22 C1065 B - FIELD BLANK C1067 H HV30A ROOF - NEG ALC C1067 H HV30A ROOF - NEG ALC C1067 C1 | | | | BLANK AVG | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 1/21/22 | C1065 | B | | | AVG | | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| | · - · - · - · - | B | | | | | | | | | | -> | %00 | |
| | C1067 | Н | HV36A | | %100 | 0746 | 1313 | 327 | ч | Ч | 4 | 1308 | °/100 | 1 2 |
| | C1068 | H | 1698 | ROOF - NEG AIR 03 | 1 | 0748 | 13/3 | | Ч | Ч | 4 | 1300 | | <u> </u> |
| | C1069 | H | | (EXT) EXHAUST I Q284 | 0/100 | | 1317 | | 2.5 | 2.5 | 2.5 | | | 6.004 |
| 1 | C1070 | 1-1 | | W. STAIR EXHAUSTI | | 0755 | 1318 | 323 | 2.5 | 2.5 | | 808 | 2/100 | 40-004 |
| | C1071 | 1- | | ECE-EXHAUST 4 | 0/100 | 0802 | 1319 | 317 | 2.5 | 2.5 | 2.5 | 793 | | <u>_</u> |
| | C1072 | | 6109 | (EXT) EXHAUST 20283 | 9/100 | 0804 | 1319 | 315 | 2.5 | 2.5 | 2.5 | 788 | | 40.004 |
| \ | C1073 | OW A | 8297 | LUI - CLEAN ROOM | 0/100 | 0810 | 1328 | 318 | 4 | 4 | 4 | 1272 | 8/100 | 0.003 |
| | C1074 | DWA. | 207607 | LU 2 - SKYBYIDGE LOADOUT | | | 1327 | 314 | 4 | 4 | 7 | 1256 | 10/100 | 0.004 |
| | C1675 | AWE | 8504 | LV2 - ARTGANERY | 0/100 | 083 0 | 1030 | 120 | 5 | 5 | 5 | 600 | 100/85 | 0.10 |
| | | | | | | | | | | | | | | |
| | | | | <u> </u> | | 777 | | | | | | | | |
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| Recount Sa | mple # | 0075 | Recount | 100/80 | | | | | | | | - | | |



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| Project Na | me: Pierce Co | ollege Ol | ympic Soutl | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|-------------|---|--|--|-------------------------|------------------|-----------------------|-------|---------|----------|-----------------|---------|--------|------------------|----------|
| Project No | .: 40535.488 | ···· | | I.H. | | | | | | | | | | |
| Location: l | akewood, W | A | 7.33. | SAMPLE MEDIA/ANALYTICA | L METHOD | • | | | | | | | | |
| Contractor | r: Dickson | | | | | | | | | | | | | |
| Client: DES | <u> </u> | . '. | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIM | IE: | MIKESM | O BY: | 1/2/ | | DATE/I | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | 10.1 | DATE/TIM | IE: | ANALYZE | D BY: | | n X | DATÉ/I | | | | | |
| CODES: | DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUMP 124/12 (1076: H 640 | | | A AMBIENT AIR | PRE EX TEM | PRE-ABAT EXCURSION | N | LE | GBA H | GLOVE E HEPA | BAG ARI | Ā | | <u> </u> |
| DATE | CEIVED BY (SIGN.): DATE/TIME: CEIVED BY (SIGN.): DATE/TIME: DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA PUMP CODE NUMBER CODE NUMBER CODE NUMBER CODE CODE NUMBER CODE CODE NUMBER CODE | | | LOCATION | BLANK AVG | TIME | TIME | TOTAL | | FLOW | : | TOTAL | FIB | F}B |
| | | DATE/TIME: SONAL C CLEARANCE IDE AREA A AMBIENT AIR TSIDE AREA B BLANK LOCATION ACTIVITY/PERSON H 690 West Stairs # 4 H 697 6283-# 1 H 689 ECE-# 4 H 1698 Roof-NA65 OWA 207607 2nd Fl Skybridge LIWA 8584 2nd Fl Ort galleng | | | | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 1/24/32 | (1076 | <u>H</u> | 640 | West Stairs #4 | 0/100 | 0737 | 1336 | 361 | 2.5 | 2.5 | 7.5 | 90251 | 100 | <0.004 |
| | C1077 | # | 097 | 0284-#4 | 0/100 | 6735 | 1376 | 359 | 25 | 25 | 25 | 817.50 | 0/100 | K0.064 |
| | C1078 | H- | 6109 | 6283-#1 | 0/100 | 0742 | 1340 | 362 | 2.5 | 2.5 | 2.5 | 9052 | 1/100 | 40.004 |
| | C1079 | H | 097 0284 - #4 6109 6283 - # 1 689 ECE - #4 | | 0/100 | 0740 | 13746 | 362 | 2.5 | 2.5 | 25 | 9052 | 0/100 | 40.004 |
| | C1080 | H | 1698 | Roof - NA65 | 0/100 | 0930 | 1832 | 242 | 4 | 4 | 4 | 9682 | 1/100 | 40-004 |
| | C1081 | owa | 207607 | | 0/100 | 0747 | 1348 | 359 | 2.5 | 2.5 | 25 | 897.5 | _70c | 0.007 |
| | C1082 | IWA | 8584 | 2nd Fl art galley | 0/100 | 0810 | 140 | 210 | 4 | ч | 4 | quo | 0.0 | 0.013 |
| | C 1083 | B | | tield blank I | | | | | | | - | | [©] /00 | |
| | C1084 | B | | Field blank 2 | | | | | | | | | 9/100 | |
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| Recount S | ample # | | Recount | | | | | | | | | | | |



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| Project Na | me: Pierce C | ollege Ol | ympic Sou | th Abatement and Repairs | | | WEATH | ER/TEMP |): - | Comme | nts: | | Nest the second | ····· |
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| Project No | .: 40535. 488 | | | I.H. | | | 1 | | | | | | | |
| Location: I | akewood, W | A | <u> </u> | SAMPLE MEDIA/ANALYTICA | AL METHOD |): | 1 | | | | | | | |
| Contracto | r: Dickson | | | | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ME: | ANALYZE Wike Si | | j rk | 1 | DATE/ | I IME: | | TWA: | <u> </u> | |
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| CODES: | DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | ĒΑ | | |
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| 1/25/22 | Dject No.: 40535.488 cation: Lakewood, WA Intractor: Dickson ent: DES LINQUISHED BY (SIGN.): DATE/T CEIVED BY (SIGN.): DATE/T DES: P PERSONAL IWA INSIDE AREA OWA OUTS | | | FIELD BLANK | | | | | | | | | 0/100 | |
| | OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 5/22 C1085 B - C1086 B - C1087 1+ HV30A C1088 H 089 C1089 H 6109 | | | FIELD BLANK | | ļ | | | | | - | 5 | 0/100 | |
| | NUMBER CODE FOMP 5/22 C1085 B - C1086 B - C1087 1+ HV30A C1088 H 089 | | HV30A | ROOF-NEG AIR 08 | 0/100 | 0743 | 1336 | 45 3 | 4 | 4 | Ч | 14126 | 1 | <0.003 |
| | C1088 | Н | 089 | (EXT) EXHAUST 3@284 | 0/100 | 0802 | 1 | 325 | 2.5 | 2.5 | 2.5 | | | 40.004 |
| | C1089 | H | | W STARS EXHAUST 3 | 0/100 | 0803 | | 324 | | 2.5 | | | 7 | <0.004 |
| | C1090 | H | 097 | ECE - EXHAUST, 3 | 0/100 | 0804 | 1329 | 325 | 2.5 | | 2.5 | | | 40.004 |
| | | H | | (CKT) EXHAUST 3 @ 293 | 0/100 | 0807 | 1325 | 318 | 2.5 | 2.5 | | 7951 | | K0.004 |
| | C1092 | σωΑ | 207607 | LV2 @ SKYBRIDGE | 0/100 | 0810 | 1340 | 330 | 4 | Ц | 4 | 1320L | | <0.003 |
| | C1093 | TUA | 8205 | LV2 @ ART GANGRY | 9/100 | 0850 | i . | 160 | 4 | ч | 4 | 6401 | 1 クシノ | 0.017 |
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| Project Na | oject Name: Pierce College Olympic So oject No.: 40535.488 | | | ith Abatement and Repairs | | *** | WEATH | ER/TEMP | : | Comm | ents: | | | |
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| Project No | .: 40535.488 | · | | I.H. TOAN NGUYE | <u> </u> | | 1 | | | | | | | |
| Location: I | akewood, W | A | *** | SAMPLE MEDIA/ANALYTICA | <u> </u> | : | 1 | | | | | | | |
| Contracto | r: Dickson | | | I NIOSH | 2400 | | | | | | | | | |
| Client: DES | - | | | | 7 100 | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TII | ME: /27/22 | ANALYZEI | D BY: | | | DATE/ | rime: | | TWA: | | |
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| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA PATE SAMPLE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LF | GBA H | GLOVE HEPA | BAG AR | EA . | | |
| DATE | IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUMP LOCATION ACTIVITY / PERSON 26/27 C1094 H 089 ECE - HEPA exh. #2 C1095 H 097 0283-HEPA exh. #3 C1096 H G109 0284 - HEPA exh. #3 | | | | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FIB |
| 1/26/27 | -C1094 | H | 089 | | 1.5/100 | 1335 | 343 | 2.5 | 2.5 | 2.5 | 8582 | 7100 | CC (0.004) | |
| | | | | | .5/100 | 0752 6755 | 1345 | 340 | 2.5 | 2.5 | 2.5 | 853L | 2/100 | <u> </u> |
| | | H | | 0284 - HEPA ext. #2 | 1.5/100 | 0748 | 1337 | 349 | 2.5 | 2.5 | 2.5 | 873L | | <0.004 <0.004 |
| | C1097 | H | 090 | West stairs - HEPA ext. #2 | | 0750 | 1337 | | 2.5 | 2.5 | 2.5 | 868L | | 40.004 |
| | c 1998 | IWA | 4502 | 2nd A Art gallery | .5/100 | 0845 | 1342 | 16297 | 1 | 4 | 4 | 1188 L | <u> </u> | 0.007 |
| | C1099 | OWA | 207607 | 2nd A Skybridge | .5/100 | 0759 | 1352 | 33 | 4 | ч | 4 | 1412L | | 0.003 |
| | C1100 | # | 1698 | Roof - HEPA- NÃO (| 100 | 0735 | 1348 | | 4 | 4 | 4 | 1492L | -A - | <0.003 |
| | 01101 | B | | Field blank 1 | | | | | | | | | 0/100 | |
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| Project Na | me: Pierce Co | ollege Ol | vmpic Sou | th Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
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| | | | ,p | I.H. TOAN NOUYE | 7 | | | | | | | | | |
| Location: l | akewood, W | A | **** | SAMPLE MEDIA/ANALYTICA | | | | | | | | | | |
| Contracto | r: Dickson | | | NIOSH 74 | (00) | | | | | | | | | |
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| | | GN.): | DATE/TIN | ME: , , , , , , , , , , , , , , , , , , , | ANALYZED MIKE SW | BY: | 181 | L | DATE/1 | TIME: | | TWA: | | ette. |
| | | | DATE/TIM | ME: | ANALYZED | BY! | | | DATE/1 | IME: | ···· | | | |
| CODES: | PES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP CH22 C1103 H 609 C1104 H 097 C1105 H 069 | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | ĒA | | |
| DATE | ect No.: 40535.488 tion: Lakewood, WA tractor: Dickson at: DES NQUISHED BY (SIGN.): CALLAGRAPH EIVED BY (SIGN.): DATE/TII 1/24 EIVED BY (SIGN.): DATE/TII DATE/TII LES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA CHOS H 097 CHOS H 049 CHOS H 040 CHOS H 040 CHOS H 040 CHOS JANA BER C | | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME ON | TIME | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL | FIB FLD | FIB CC |
| 1/27/27 | tion: Lakewood, WA Tractor: Dickson The DES NQUISHED BY (SIGN.): COMPANY DATE/TIME: 1/24/2 EIVED BY (SIGN.): DATE/TIME: 1/24/2 DATE/TIME: DATE/TIME: DATE/TIME: PES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA B E ATE NUMBER CODE PUMP CIIOS H 097 02 CIIOS H 099 E CIIOS H 090 E CIIOS H 090 E CIIOS H 090 E CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS H 1000 F CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CIIOS H 1000 F CIIOS TWA 8502 2nd CII | | 0294 - Esh.#3 | %100 | 0755 | 1250 | 295 | 2.5 | - | | 737. SL | ~ . | <0.004 | |
| ĺ | | | 1 | 0243- Eh. #1 | 0/100 | 0800 | | | · | 2.5 | 2.5 | 7202 | . / | <0.004 |
| | | | | ECE - Exh. #3 | %100 | 0759 | 1249 | | 2.5 | 2.5 | 2.5 | 7251 | | <0.004 <0.004 |
| | | | | West stairs - Exh. #3 | 0/100 | 6756 | 1250 | • | 2,5 | 2.5 | 2.5 | 7356 | n / | K0.004 |
| | | IWA | | 2nd Fl Art gallery | 0/100 | 0903 | 1251 | 228 | 4 | 4 | | 9121 | 27 | 0.014 |
| | | owa | 1 | 2nd Fl Skybridge- | 0/100 | 0310 | 1252 | 282 | 4 | ij | 24 | 11282 | 7.5/00 | 0.003 |
| | | # | , | | 9/100 | 0745 | 1258 | | 4 | 4 | 4 | 1252L | 0/100 | 40.803 |
| Date of the last | | B | | Field blank 1 | | | | | | | | | 0/100 | |
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| Project N | ame: | | | | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
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| Project N | D.: | | | I.H. TOAN NOUY | en/ | | 1 | | | | | | | |
| Location: | | | | SAMPLE MEDIA/ANALYTIC | AL METHOD | : | | | | | | | | |
| Contracto | r. | - | | | | | | | | | | | | |
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| 128/20 | | 12 | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 100/20 | c1113 | B | - | FIELD BLANK | | | | | | | | | 0/100 | |
| | C1114 | cωA | | FIELD BLANK | 0/ | . 77.11.6 | (4117) | | | | . 1 | | | |
| | CIIIS | H | 1698 | LV2 @ SKYBRIDGE | | 0744 | | 356 | 4 | <u>Ч</u> | <u>니</u> 나 | 1 | | <0.003 |
| | C1116 | | | ROOF - NEG AIR OS | | 0752 | 1 | 343 | | | | 1372 | 2/100 | <0.∞3 |
| | C1117 | l ' | 089 | (EXT) EXHAUSTO 284 | | 0803 | | | 2.5 | 2.5 | _ | 805 | 2/100 | |
| ` | C1118 | H | 097 | W. STAIR EXHAUST | | | | | 2.5 | | | 805 | | 40.004 |
| | CIIIq | H | İ | ECE - EXHAUST 4 | 1 - | 0805 | | | 2.5 | 2.5 | | 798 | 1/100 | Ko.004 |
| 1 | · | H | 090 | (EXT) EXHAUST 2 0 28 | · /. | | | Ι. | 2.5 | 2.5 | | 790 | 100 | 40-004 |
| | C1120 | INA | 8502 | LV2 ANTGALLERY | 9/100 | 0830 | 1322 | 292 | 4 | 4 | 4 | 1168 | OVERL | CABCA |
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| Project Na | oject Name: Pierce College Olympic Sout | | | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
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| Project No | o.: 40535.488 | | | I.H. TOPAL NGWEN | | | 1 | | | | | | | |
| Location: I | Lakewood, W. | A | | I.H. TOAN NGUYEN SAMPLE MEDIA/ANALYTICA | AL METHOD: | | 1 | | | | | | | |
| Contracto | r: Dickson | | | NIOSH 7 | 100 | | , | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
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| CODES: | ect No.: 40535.488 ation: Lakewood, WA tractor: Dickson nt: DES INQUISHED BY (SIGN.): DATE/TI DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA CI122 B C1122 B C1123 H 690 C1124 H 697 C1125 H 049 C1126 JWA 9502 C1127 H 6109 C1126 OWA 207607 | | | ·· - ·· - | PRE EX TEM | PRE-ABAT EXCURSION CLEARANG | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
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| 1/31/2 | ect No.: 40535.488 tion: Lakewood, WA ractor: Dickson at: DES NQUISHED BY (SIGN.): EIVED BY (SIGN.): DATE/T EIVED BY (SIGN.): DATE/T ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA CATE NUMBER CODE PUMP C1122 B C1123 H 690 C1124 H 697 C1125 H 699 C1126 IWA 9502 C1127 H G109 C1128 OWA 20760 | | | FIELD BLANK | | | | | | | | 2 | 1/100 | |
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| Н | DES QUISHED BY (SIGN.): OUTSIDE BY (SIGN.): DATE/TIL S: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA TE SAMPLE NUMBER C 1122 C 1122 C 1123 H 690 C 1124 H 697 C 1125 H 049 C 1126 C 1127 C 1127 C 1128 OWA 207607 | | 690 | ECE-HERA exh. #4 | .5/100 | 0505 | 1345 | 357 | 2.5 | 25 | 25 | 3432 | 9/100 | 40.004 |
| | S: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA TE SAMPLE CODE PUMP C1122 B C1122 B C1123 H 690 C1125 H 697 C1125 H 697 C1126 TWA 9502 C1127 H 6109 C1126 OWA 20760 | | 697 | 0283-HEPA exh. #3 | 1 . 5 /20 | 0811 | 1340 | 329 | 25 | 2.5 | 2.5 | 8236 | I . | Ko-004 |
| | C1122 B - C1123 H 690 C1124 H 697 | | 049 | 0294 - HEPA exh. #4 | -5/100 | 0103 | 1347 | 344 | 25 | 2.5 | 2.5 | SOL | 0/100 | 40.004 |
| | C1126 | IWA | 9502 | Level 2 - Near Art Gallery | 5/100 | 0845 | 1330 | 285 | 4 | 4 | 4 | 11402 | | CI 3CIAO |
| | C1127 | H | 6109 | Level 2 - West stairs - HERATE | | 0403 | 1348 | 345 | 2.5 | 2.5 | 2.5 | 963L | 1/100 | 40.004 |
| | C1128 | owa | 207607 | Level 2 - skubridge | -5/100 | 0745 | 1335 | 350 | 4 | 4 | 4 | 14002 | | Co.003 |
| | C1129 | 4 | HV 304 | Roof- HEPA exh NAOG | .5/100 | 0724 | 1355 | 361 | if | 4 | 4 | 1444 | | 40.003 |
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| Project Na | oject Name: | | | | | | | WEATH | ER/TEMP | : | Comme | ents: | · · · · · · · · · · · · · · · · · · · | | |
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| Project No |). <u>.</u> | | | і.н. — | ON NGUYEN | | | | | | | | | | • |
| Location: | | | ········· | SAMPLE | : MEDIA/ANALYTICA | L METHOD | • | 1 | | | | | | | |
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| Client: | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | | |
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| CODES: | PES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUME 22 C1130 B — C113 \ B — | | | C CLEARAI A AMBIEN B BLANK | | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE I | BAG AR | EA | | |
| DATE | ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA TE SAMPLE NUMBER CODE PUMP 22 C1130 B - C113 B - C1132 H 1698 | | | | OCATION /ITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | PRE | FLOW | AVG | TOTAL | FIB FLD | FIB CC |
| 7/1/22 | PES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 22 C1130 B - C1131 B - C1132 H 1698 C1133 H 6109 | | _ | FIELD | ~ | | | | | | | - | 7 | %100 | |
| / | | B | _ | | BLANK | | | | | | | | <u>></u> | 2/100 | |
| | | 서 | 1698 | | EXHAUST OI | 0/100 | 0750 | 1307 | 317 | 4 | 4 | 4 | 1268 | .5/100 | 40.003 |
| | C1133 | H | 6109 | l | HAUST 3 @ 284 | | 0759 | 1315 | 314 | 2.5 | 2.5 | 2.5 | 790 | 1/100 | 20.004 |
| | C1134 | Н | 1 - | ام ا | TAIR -#3 | 0/100 | 0850 | 1315 | 315 | 2.5 | 2.5 | 2.5 | 788 | 2/100 | 40.004 |
| | C1135 | 14 | 097 | EXT EXH | WST 2@ 283 | 0/100 | 0806 | 1312 | 304 | 2.5 | 2.5 | 2.5 | 765 | 100 | 40.064 |
| \perp | C1136 | H | 090 | ECE- | EXHAUST 3 | 0/100 | 0804 | 1310 | 300 | 2.5 | 2.5 | 2.5 | 765 | %00 | 40-004 |
| $\perp \setminus \angle$ | C1137 | OWA | 207607 | Lv2 @ | SKYBRIDGE | 0/100 | 0810 | 1321 | 311 | ч | 4 | 4 | 1244 | 5/100 | 6.003 |
| _X_ | | οωΑ | 8297 | LVI @ | CLEAN ROOM | 0/100 | 0812 | 1326 | 314 | 4 | 4 | 4 | 1250 | 13/100 | 0.005 |
| | C1139 | IWA | 8205 | Lv2 - | Art GALLERY | 0/100 | 6835 | 1208 | 213 | 니 | 4_ | 4 | 852 | 100/41 | 0.063 |
| | | | | <u> </u> | *************************************** | | | | | | | | | | |
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| Recount S | I ample # | - | Recount | | | | | | | | | | | | |



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| Project Na | me: Pierce Co | ollege Ol | ympic Sou | th Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|--|--|-----------|-------------|---|--------------------|---------------------------------|-------------|---------|----------|-----------------|---------|-------|-----------------|----------|
| Project No | o.: 40535.488 | | | I.H. TORN NORLYEN | | | 1 | | | | | | | |
| Location: | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICAL METHO | D: | | 1 | | | | | | | |
| Contracto | r: Dickson | | | MIOSH 7400 | | | | | | | | | | |
| Client: DE | | | | | | | | | | İ | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TIN | VIE: | ANALYZED | BY: | | | DATE/ | ГІМЕ: | | TWA: | | |
| | BY (SIGN.): | | DATE/TIN | ME: | ANALYZED MikeSi | | ·H | 44 | DATE/I | TIME: /2.Z_ | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA PATE SAMPLE NUMBER CODE PUMP 2/22 C1140 B - C1141 B - | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PREFABAT EXCURSIO CLEARAN | EMENT ON | LE | GBA H | GLOVÉ E HEPA | BAG ARI | EA | | |
| DATE | Attactor: Dickson Int: DES INQUISHED BY (SIGN.): DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA CITTO C | | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 21.1. | INQUISHED BY (SIGN.): DATE/TIME CEIVED BY (SIGN.): DATE/TIME DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA CATE NUMBER CODE PUMP C1141 B - C1142 H H230A C1143 H 097 C1144 H 090 C1145 H 090 C1145 H 090 C1147 OWA 3297 C1148 OWA 207607 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 7/2/22 | ATE SAMPLE NUMBER CODE PUMP 22 C1140 B - C1141 B - C1142 H HV30A C1143 H 097 | | - | FIELD BLANK | | | | | | | | | 0/100 | |
| | 2 C1140 B - C1141 B - C1142 H Hv30A | | | FIELD BLANK | | | | | | | | | %00 | |
| H- | 2 C1140 B - C1141 B - C1142 H HV30A | | | - KOOF - NEG AIR 06 | %100 | 0756 | | | 4 | 4 | 4 | 1196 | 100 | ₹0.003 |
| - <i> </i> | · · · · · · · · · · · · · · · · · · · | | | (EXT) EXHAUST 2 @ 284 | 0/100 | 0805 | 1301 | 296 | 2.5 | 2.5 | 2.5 | 740 | | 4.004 |
| <u> </u> | C1144 | H | 090 | W STAIR EXHAUST | 0/100 | 0805 | 1302 | 297 | 2.5 | 2.5 | 2.5 | | . <i>ריוו</i> ו | K0.004 |
| | C1145 | H | <i>08</i> 9 | ECE ~ EXHAUST 2 | 0/100 | 0889 | 1300 | 291 | 2.5 | 2.5 | 2.5 | 728 | 1/100 | 40.004 |
| | C1146 | 14 | 6109 | (EXT) EXHAUST 2 @ 283 | %00 | 0812 | 1258 | 286 | 2.5 | 2.5 | 2.5 | 715 | 1/100 | 400.00 |
| | C1147 | OWA | 8297 | LVI @ CLEAN ROOM | 0/100 | 0816 | 1250 | 274 | 4 | 4 | 4 | 1096 | مسدا | 0.004 |
| 1 | | οωΑ | 207607 | LV2 @SKYBRIDGE LOAD OUT | 100 | 0815 | 1245 | 270 | 4 | 4 | 4 | 1080 | 3/100 | 40.004 |
| <u> </u> | C1149 | IWA | 8502 | LV2 in ART GALLERY | 0/100 | 0845 | 1201 | 190 | 4 | 4 | 4 | 784 | | DADED |
| | | | | • | <u> </u> | | | | | ļ | ļ | | | ļ |
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| Recount S | ample# | 10140 | Recount | 1/100 | <u></u> | | | | | | | | | |



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| Project Na | ame: Pierce Co | ollege Ol | ympic Sout | h Abatement and Repairs | | | WEATH | EK/ I EMP | : | Comme | nts: | | | |
|------------------------|---|-----------|------------|---|---------------------|---------------------------------|----------|-----------|------------|-----------------|--------|-----------------|--------|--------|
| Project No | o.: 40535.488 | | | I.H. TOAN | | | 1 | | | | | | | |
| Location: | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICAL MET いてのられ マイのの | HOD: | | 1 | | | | | | | |
| Contracto | r: Dickson | | | 10103h 4400 | ÷ | | | | | | | | | |
| Client: DE | S | | | | | | | | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TIN | 1E: | ANALYZEI MIKE Sm | , | Inha O | 2/X | DATE/1 | IME: 1/22 | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | ANALYZE | BY: / | | • | DATÉ/I | IME: | | | | |
| CODES: | IWA INSID | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 211 | DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP C1151 B C1152 H 1698 C1153 H 697 C1155 H 689 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 2/3/22 | c1150 | 13 | | FIELD BLANK | | | | | | | | > | 0/100 | |
| | C1151 | ि | | FIELD BLANK | | | | | | <u> </u> | | > | 0/100 | |
| | | Н | 1698 | ROOF- NEG AIR #02 | 0/100 | 0750 | 1254 | 304 | 7 | 4 | 4 | 1216 | 0/100 | 25/100 |
| $\sqcup /\!\!\! \perp$ | | 1-1 | 6109 | (EXT) EXHAUST 3@ 0284 | 0/100 | 0758 | 1360 | 302 | 2.5 | 2.5 | 2.5 | 755 | 0/100 | 40.004 |
| Ц | | Н | 097 | LV 2 - W. STAIRS EXHAUST | 0/100 | 0759 | 1300 | 301 | 2.5 | 2.5 | 2.5 | 753 | 1/100 | ८०.∞५ |
| 100 | | Н | 089 | LVI - ECE EXHAUST 5 | 0/100 | ං පීවර | 1259 | 299 | 2.5 | 2.5 | 2.5 | 748 | 0/100 | 40.004 |
| | C1156 | Н | 090 | (EXT) EXHAUST 1 @ 0283 | 0/100 | 0804 | 1288 | 294 | 2.8 | 2.5 | 2.5 | 735 | 100 | 40.004 |
| | C1157 | ಲωA | 207607 | LV2@ SKYBRIDGE | 0/100 | 0807 | 1247 | 280 | Ч | ч | 4 | 1120 | 4/100 | 40.003 |
| | C1158 | owA | 8297 | LVIP CLEAN ROOM | 0/100 | 0809 | 1248 | 279 | 4 | 4 | 4 | 1116 | 12/100 | 0.005 |
| 4 | C1159 | INA | 8502 | LV2 @ ART GALLERY | 0/100 | 2 830 | 1303 | 273 | 4 | ч | 4 | 1092 | OVERL | OADED |
| <u> </u> | | | | | | | | | ļ | | | | | |
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| Recount S | iample # | C1154 | Recount | %100 | | | | <u>L</u> | ļ <u>.</u> | L | | <u> </u> | | ł |



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| Project Na | me: Pierce C | ollege Ol | lympic Sou | th Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | ents: | | | |
|-------------|--|-----------|--------------|-----------------------------------|---------------------|----------------------------------|-------|------------------|--------------|-----------------|--------|-------|--------|--------------------|
| Project No | .: 40535.488 | | | LH. TOAN | | | 1 | | | | | | | |
| Location: L | akewood, W | Α | | SAMPLE MEDIA/ANALYTICAL METHO | D: | | | | | | | | | |
| Contractor | : Dickson | | | N105H 7400 | | | | | | | | | | |
| Client: DES | ; | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIM | ΛE: | ANALYZEI Mike Sr | D BY: | 110 | XX | DATE/ 2/7 | | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | ΛE: | ANALYZE | D BY: | | ***** | DATE/ | | | 1 | | |
| | DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUM 4/22 C1160 B C1161 B | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN |)N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | · · · | TOTAL | FIB | FIB |
| 2/1/0 | | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 4/4/22 | | | <u> </u> | FIELD BLANK | | | | | | | ļ | | %100 | |
| | | | | FIELD BLANK | | | | 4.7 | | ļ <u>.</u> | | | 100 | <u></u> |
| | C1162 | OWA | | LVI, @ CLEAN ROOM | .5/100 | 0758 | 1225 | 270 | 닉 | <u> </u> | 14 | 1080 | 26/00 | 0.011 |
| | | | 1 | LVA @ SKYBRIDGE | 3/100 | රවර | 1400 | 360 | 4 | 4 | 4 | 1440 | | <0.003 |
| | C1164 | H | 1698 | ROOF - NEG AIR OI | 3/100 | 0807 | | 354 | 4 | 4 | 4_ | 1416 | 100 | <0.00 ² |
| | C1165 | H | 097 | (EXT) EXHAUST I @ 284 | | 0817 | | 333 | 2.5 | 2.5 | 2.5 | 853 | 0/100 | Co -004 |
| | CIIble | H | 6109 | LV2-W. STAIRS - EXHAUST 1 | -5/100 | 0819 | 1352 | 333 | 2.5 | 2.5 | 7 | | 2.5/60 | K0-004 |
| | C1167 | H | 090 | LVI-ECE, EXHAUST 1 | 1/00 | 0820 | | 331 | 2.5 | 2.5 | - | 828 | 2/100 | 40.004 |
| | C1168 | 1+ | 089 | (EXT) EXHAUST 1 @ 283 | 15/100 | 0873 | 1350 | 327 | 2.5 | 2.5 | 2.5 | 818 | 1/100 | 60.004 |
| | C1169 | IWA | 8502 | LV2 @ ART GALLERY | .5/100 | 0845 | 1213 | 208 | 4 | 4 | 4 | 832 | 22/100 | e-e5- |
| | | | | | | _ | | | | | | | | 0.013 |
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| Recount Sa | mple # | كعلان | Recount | 24/100 | | | | | | | | | | |



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| Projec | roject Name: Pierce College Olympic Sou roject No.: 40535.488 | | | ympic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|---|--|---|--|----------------|---|---------------------|---------------------------------|---------------------------------------|---------|---------------|--|--------|-------|---------|--------|
| Projec | t No | .: 40535.488 | | | LH. PETER STENSLAND | | |] | | | | | | | |
| Locati | ion: L | akewoód, W | A | | SAMPLE MEDIA/ANALYTICAL METH | OD: | | | | • | | | | | |
| Contra | actor | : Dickson | | | | | | | | | | | | | |
| Client | : DES | : | | | | | | | | | | | | | |
| | | | GN.): | DATE/TIN | 1E: | ANALYZEI HIKE SO | | LA | ten1 | DATE/1 2/8 | TIME: | | TWA: | | |
| RECE | VED | BY (SIGN.): | | DATE/TIM | 1E: | ANALYZEI | | | | DATE/1 | | | | | |
| CODE | | IWA INSIDE AREA OWA OUTSIDE AREA | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DA | TE | No.: 40535.488 I: Lakewood, WA I: Carrolickson IES UISHED BY (SIGN.): P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE NUMBER CODE CODE CODE CODE CODE CODE CODE COD | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 2/4/ | / ₋₀ | ED BY (SIGN.): DATE/TIME ED BY (SIGN.): DATE/TIME E P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA E SAMPLE NUMBER CODE PUMP C1171 B - C1171 B - C1172 H 690 C1174 H 087 C1176 H 097 C1176 H 1698 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 74/ | 22 | | | _ | FIELD BLANK | | | | | | | | | 0/100 | |
| $\vdash \vdash$ | | | | | FIELD BLANK | 0/10 | | | | | | | 201 | 0/100 | |
| $\vdash \!$ | | | | | (EXT) EXHAUST I @ 283 | 100 | 0655 | · · · · · · · · · · · · · · · · · · · | | 2.1 | 2.1 | 7.1 | 926 | 1/00 | 40.004 |
| $\vdash \vdash$ | | | 1 | | ECE - EXHAUST 3 | 0/100 | | | | | | | 1051 | %00 | 40.004 |
| $\vdash \vdash$ | | 01174 | | ০প্তী | W. STAIR - EXHAUST I | 0/100 | 0659 | 1418 | 439 | 2.2 | | | 966 | 2 100 | 40.064 |
| igspace | | C1175 | H | 097 | (EXT) EXHAUST I @ 284 | 0/100 | 0700 | 1419 | 439 | 2-1 | 2-1 | 21 | 922 | 9/00 | 40.004 |
| | | C1176 | 14 | 1698 | ROOF- NEG AIR 1 | 100 | 0707 | 1300 | 353 | 5 | 5 | 5 | 1765 | %00 | 40.002 |
| | | C1177 | CAMA | 2071007 | LV2 @ SKY BRIDGE | %100 | 0719 | 1425 | 405 | 5 | 5 | 5 | 2025 | 7.5/100 | 0.002 |
| Ш | | C1178 | OWA | 8297 | LVI @ LOADOUT | 1/100 | 0723 | 1427 | 424 | 5 | 5 | 5 | 2120 | 29/100 | 0.007 |
| | | | | | LV2 @ ART GALLERY | 0/100 | 0737 | 0947 | 130 | 5 | 5 | 5 | 650 | OVERL | [· |
| | <u> </u> | | I | 1 | <i>f</i> | 0/100 | 0754 | 0954 | 120 | 5 | 5 | 5 | 600 | | 0.012 |
| | | | | | | | | <u> </u> | | | | | | | |
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| Project Na | ame: Pierce C | ollege O | lympic Sou | th Abatement and Repairs | | | WEATH | IER/TEMP | • | Comm | ents: | | | |
|--|------------------|---------------------------------------|---------------------------------------|---|--------------------|---------------------------------|-------|------------------|----------|-----------------|--------|---------------|------------|-----------|
| Project No | o.: 40535.488 | | | I.H. PETER STENSLAN | D. | | 1 | | | | | | | |
| Location: | Lakewood, W | /A | | SAMPLE MEDIA/ANALYTICAL METHO | DD: | | 1 | | | | | | | |
| Contracto | r. Dickson | · · · · · · · · · · · · · · · · · · · | | N105H 7400 | | | | | | | | | | |
| Client: DE | S | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | |
| RELINQU | ISHED BY (S | IGN.): | DATE/TII | ME: | ANALYZE Mike So | | 7 /L | A | DATE/ | | ·- | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TII | ME: | ANALYZE | | | √∞ ×↓ | DATE/ | | · | | | |
| CODES: | | ONAL DE AREA SIDE AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | NC | LE | GBA H | GLOVE I HEPA | BAG AR | EA . | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 2/8/22 | C118 (| B | | FIELD BLANK | | | | | | | - | - TOE | 9/100 | ~ |
| /_ | / C1182 B - | | | FIELD BLANK - | | | | | | | - | \rightarrow | 0/100 | |
| <u> </u> | C1182 B - | | | (EXT) EXHAUST 2 @ 283 | 0/100 | 0657 | 1331 | 394 | 2.1 | 2.1 | 2.1 | 827 | | 40.004 |
| | C1184 | H | 97 | ECE - EXHAUST 2 | 0/100 | 0700 | 1333 | 393 | 2.0 | 2.0 | | 786 | | 60.004 |
| | C1185 | H | 6109 | W. STAIRS - EXHANST 2 | 0/100 | 0704 | 1335 | 391 | 2.5 | 2.5 | 2.5 | 978 | | 40-004 |
| | C1186 | H | 89 | (EXT) EXHAUST 2 @ 284 | 0/100 | 0709 | 1336 | 387 | 2-1 | 2.1 | 2.1 | 813 | | 40.004 |
| \vdash | C1187 | H | | ROOF - NEGAIR# 2 | 0/100 | 0713 | 1341 | 388 | 5 | 5 | 5 | 1940 | 1 | 40.001 |
| $\vdash \vdash$ | | | 207667 | | 0/100 | 0722 | 1346 | 384 | 5 | 5 | 5 | 1920 | 3/100 | 40,001 |
| \. | C1189 | OWA | | LVI @ CLEAN ROOM | | 0727 | | | 5 | 5 | 5 | 1905 | 29/100 | 0-007 |
| 1 | C1190 | ı | 208518 | | 6/100 | 0735 | 0955 | 140 | 5 | 5 | 5 | 700 | 66/100 | 0.046 |
| | CIIQI | IWA. | 8904 | LY2 OUTSIDE of 283 | 0/100 | 0740 | 0950 | | 5 | 5 | 5 | OVE | RLOAT | €⊅ |
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| Recount Sa | ample # | C1184 | Recount | 1/100 | <u></u> | | | | | | | <u></u> | | |



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| Project Na | me: | | | | | | WEATH | ER/TEMP | : | Comme | nts: | · · · · · · · · · · · · · · · · · · · | | |
|--|---|----------|----------|---|---------------------|---------------------------------|---------|--|----------|-----------------|--------------|---------------------------------------|----------|-------------|
| Project No |).: | | 7.0 | I.H. PETER STENS | SLAND | | 1 | | | | | | | |
| Location: | | | | SAMPLE MEDIA/ANALYTIC | CAL METHOD | * | | | | | | | | |
| Contractor | •• | | | - NIOSH 7400 | | | | | | | | | | |
| Client: | | | | | | | | , | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZEI | D BY: | 17 10 | 11 | DATE/I | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | Mike Sm ANALYZEI | D BY: / | udied 1 | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | DATE/1 | 122 IME: | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMI | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| ĐATE | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 2/9/22 | | 12 | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 19/2 | | | | FIELD BLANK | | | | | | | | | 9100 | |
| | | | 2 × 0C1 | FIELD BLANK | 2 20/- | | 7.00 | -00 | | - 7 | | | 15/00 | |
| | C1194 | H. | | (EXT) EXHAUST 3 @ 28. | 3 3/100 | 0719 | | 393 | 2.5 | 2.5 | 2.5 | 983 | 2.5/100 | Ko:004 |
| | C1195 | Ħ | 090 | ECE - EXHAUST I | - 15/100 | 072) | 1354 | 393 | 2-2 | 2-2 | | 1 | 100 | KO.004 |
| | C1196 | <u> </u> | 089 | W. STAIR EXHAUST 3 | | 0724 | 1355 | | 2.3 | | 2-3 | 899 | 1100 | 40.004 |
| | CII97 | H | 097 | (EXT) EXHAIST 3@28- | | 0727 | 13560 | 389 | 2-1 | 2.1 | 2-1 | 817 | 1/100 | 40.004 |
| | 01198 | H | 1698 | ROOF-NEG AIR 3 | 15/100 | 0734 | 1356 | 382 | 5 | 5 | 5 | 學1910 | 3/100 | 40.00 l |
| | C1199 | | | -> VOID PUMP MAL | FUN CTION | V | | | | | | | | <u>></u> |
| | C1200 | owA. | 8297 | LVI @ LOADOUT | 15/100 | 0749 | 1404 | 375 | 5 | 5 | 5 | 1875 | 17.5/100 | 0.004 |
| | C120) | lowA | 207067 | LV2 @ SKYBRID | 3e 15/100 | 0747 | 1402 | 368 | 5 | 5 | 5 | 1840 | 171 | 0.003 |
| S | C1202 | IWA | 208518 | LVI IN LOADOUT | 2-2 | 0756 | 0956 | 1 | 5 | 5 | 5 | | PLOAT | |
| M | C1203 | JUF | 18904 | LV2 IN BM284A | , | 0821 | 1001 | | 5 | 5 | 5 | | RLOAI | |
| | | | | *************************************** | | | | | | | | | | |
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| Recount Sa | ample# | CN98 | Recount | 2/100 | | | | | | | | | | |



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| Project Na | me: Pierce C | ollege O | lympic Sou | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comm | ents: | | | |
|-------------|--|----------|------------|---|------------------|----------------------------------|-------------|---------------|----------|------------------------|--------|-------|---------------------------------------|--|
| Project No | o.: 40535.488 | • • • | | I.H. PETER STENSLA | A D | | 1 | | | | | | | |
| Location: I | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICAL METH | IOD: | | 1 | | | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | 1E: | ANALYZEI | 7 / | 1/2 | 11 | DATE/ | I ГІМЕ: 2/, , /3 | 1 1 | TWA: | · · · · · · · · · · · · · · · · · · · | 1./···· |
| RECEIVED | BY (SIGN.): | | DATE/TIN | TE: | MIXE ST | | A V Y | VIAN - | DATE/I | | ~~ | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUM 22 C1204 B | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE HEPA | BAG AR | EA | | |
| DATE | | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME ON | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL | FIB FLD | FIB CC |
| 2/10/22 | C1204 | B | _ | FIELD BLANK | | | <u> </u> | THE | 1 10. | 1031 | AVG | VOL | 1100 | |
| | C1205 | 18 | | FIELD BLANK | | | | | | | | -> | 1/100 | _ _ |
| | C1200 | Н | 090 | (EXT) EXHAUST 4 @ 284 | 1/100 | 0711 | 1426 | 435 | 7.2 | 7.2 | 7.2 | 957 | 1/100 | 40.004 |
| | C1207 | H | 089 | (EXT) EXHAUST 1@283 | 1/100 | 0715 | 1 | 435 | 2.3 | | 1 - | 1001 | | 40.000 |
| | CIZOS | | 097 | ECE - EXHAUST 4 | 1/100 | 0718 | 1428 | 430 | 2.1 | 2.1 | 1 | 903 | | 20.004 |
| | C1209 | H | 6113 | W. STAIR EXHAUST 4 | 1/100 | e720 | 1425 | 425 | 2.6 | 2.6 | 2.6 | 1105 | 0/100 | ८०.००₹ |
| | C1210 | οωΑ | 6109 | LUZ OUTSIDE CONST. DOOR | 1/100 | 0725 | 1422 | 417 | 2.5 | 2.5 | 2.5 | 1043 | | 40.003 |
| | e1211 | H_ | 1698 | ROOF - NEG AIR 04 | 1/100 | 0730 | 1419 | 409 | 5 | 5 | 5 | 2045 | %00 | 40.001 |
| | | OWA | | LV2 - @ LOADOUT | 1/100 | 0743 | 1413 | 390 | 5 | 5 | 5 | 1950 | 2/100 | KD.001 |
| , | | Awo | | LVI-@ CLEAN ROBM | 1/100 | 0745 | 1415 | 390 | 5 | 5 | 5 | 1950 | 6/100 | 100,0 |
| | C1214 | TυA | 208518 | LVI- @ ELEVATOR | 1/100 | 0756 | 1000 | 130 | 5 | 5 | 5 | 650 | 58/100 | 0.043 |
| | | | | | | | | : | | | | | | |
| | | | | | | | | | | | | | <u> </u> | |
| | | | | | | | | | | | | - | | |
| Recount Sa | ample # | ولالان | Recount | 5/100 | | | | | | _ | | | | |



214 E GALER STREET, SUITE 300 SEATTLE, WA 98102 206.233,939

pbsusa.com

Project Name: Pierce College Olympic South Abatement and Repairs

LABORATORY DATA SHEET

Comments:

WEATHER/TEMP:

| Project No | .: 40535.488 | | | I.H. PETER STENSLAND | 7 | | | | | | | | | |
|-------------------------------|---|-------------|----------|---|---------------------|---------------------------------|--------------|-------|----------|-----------------|--|--------------|---------|--------|
| Location: L | akewood, W | 4 | | SAMPLE MEDIA/ANALYTICAL MET | THOD: | · | | | | | | | | |
| Contractor | : Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | | | | | | | | , | | | | | | |
| | | GN.): | DATE/TIN | | ANALYZEC MIKe Sm | 100 / M. | 1/2 | | | 4/22 | , | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | BY:"/ | • | V | DATE/1 | IME: | | | | |
| CODES: | IWA INSID | E AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | ĒA | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | F≀B |
| | NQUISHED BY (SIGN.): DATE/ EIVED BY (SIGN.): DATE/ ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA ATE NUMBER CODE PUMI P/22 C1215 B C1216 B C1217 H G106 C1218 H 097 C1219 H 097 C1219 H 097 C1221 GWA G113 C1222 H 1698 C1223 GWA 26766 C1225 TWA 850 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 2/11/22 | IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 1/22 C1215 B - C1216 B C1217 H 6109 C1218 H 097 C1219 H 089 C1220 H 090 | | | FIELD BLANK | | | | | | | | \geq | 0/100 | |
| <u> </u> | NUMBER 1/22 C1215 B - 1 C1216 B 1 C1217 H 6109 | | | FIELD BLANK | | | | | | | | > | 0/100 | |
| <u> </u> | 1 C1216 B | | | (ELT) EXHAUST 1 @ 283 | 0/100 | 707 | 1418 | 431 | 2.5 | 2.5 | 2.5 | 1078 | 100 | K0.003 |
| $\sqcup \! \! \! \! \! \perp$ | C1217 H 6109 | | | ECE - EXHAUST 3 | 0/100 | 0710 | 11416 | 426 | 2-1 | 2.1 | 2.1 | 895 | 0/100 | K0.004 |
| | C1219 | H | ०८९ | W. STAIR - EXHAUST I | 1 1 | 07/2 | 1414 | 422 | 2.3 | 2.3 | 2.3 | 971 | | 40.004 |
| | C1220 | H | 090 | (EXT) EXH AUST 1 @ 284 | 0/100 | 0714 | 1415 | 421 | 2.} | 2.] | 2.] | 1884 | | 40.004 |
| | C1221 | 6ω Α | 6110 | LV. 2 @ EANDOUT 19e | | | 1412 | 414 | 7.7 | 2.7 | 2-7 | 1118 | 2/100 | C0:003 |
| | C1222 | H | 1698 | ROOF - NEG AIR 65 | 4 | 0722 | 1408 | 406 | 5 | 5 | 5 | 2030 | 2/100 | 100.00 |
| | C1223 | ow A | 207667 | LV2@ LOADOUT | 0/120 | 0730 | 1423 | 413 | 5 | 5 | 5 | 2065 | 100/100 | 6.002 |
| | C1224 | ow A | 8297 | LVI @ CLEAN ROOM | 0/100 | 0732 | 1425 | 413 | 5 | 5 | 5 | 2065 | | 0.003 |
| | C1225 | TUA | 8504 | LV2 @ Room 264 A | 0/100 | 0746 | 0949 | 123 | 5 | 5 | 5 | 615 | 35/100 | 0.030 |
| 4 | C1226 | INA | 208515 | LVI C ELEVATOR | 0/100 | 0747 | 1 (| | 5 | 5 | 5 | 6000 | 11/100 | Pog. 0 |
| | | | | | | | | | | | <u> </u> | | | |
| | | | | | | | | | | <u> </u> | | | | |
| Recount S | ample # | 22 | Recount | 12/100 | | | | | | | | | | |



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| Project Na | me: Pierce C | ollege O | lympic Sou | th Abatement and Repairs | | - | WEATH | ER/TEMP | : | Comm | ents: | | | |
|--|------------------------------------|--|-------------|---|--------------------|---------------------------------------|-------|----------|----------------|---------------|---------------------------------------|----------------|--------|--------------|
| Project No | o.: 40535.488 | | | I.H. PETER STENSLAU | | | 1 | | | | | | | |
| Location: L | Lakewood, W | 'A | | ISAMPLE MEDIA/ANALYTICAL METI | HOD: | · · · · · · · · · · · · · · · · · · · | 1 | | | | | | | |
| Contractor | r: Dickson | ï, | | - NIOSH 7400 | | * | | | | ĺ | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TI | ME: | ANALYZE | | . 1 | 10/ | DATE/ | I IME: | | TWA: | | . |
| RECEIVED | BY (SIGN.): | | DATE/TI | ME: | Mino.Sm ANALYZE | D BY: | me [X | mX. | Z/JI DATE/I | 7/22 TIME: | · · · · · · · · · · · · · · · · · · · | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | Α . | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE HEPA | BAG AR | <u>I</u> EA | | |
| DATE | CAMPIE | | | LOCATION ACTIVITY / PERSON | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FiB |
| 2/4/22 | | 13 | | | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 1.1122 | NUMBER 14/22 C1227 B - C1228 B - | | | FIELD BLANK | | | | | | | | \rightarrow | 1100 | |
| -/- | C1129 | H | ଓଡ଼ିତ | FIELD BLANK | 51 | | | | | | - | 2 | 1/100 | |
| | C1230 | | | (EXT) EXHAUST 1 @ 283 | 15/100 | 0705 | ł • | | 2.1 | 2.1 | 2.1 | 956 | 1/100 | |
| | C1231 | H | 097 | ECE-EXHAUST I | 15/100 | | 1438 | - L | 2-1 | 2.1 | 2. | 943 | | 40.00H |
| | | | 6109 | W- STAIRS EXHAUST I | 100 | | 1435 | | 2-5 | | 2.5 | | 2/100 | K0.003 |
| | C1232 | 1-1 | 089 | (EXT) EXHAUST 1 0 284 | 1100 | 0713 | 1 - | 443 | 2.3 | | | 1019 | 1/100 | 20.004 |
| | C1233 | OUA | | LV2 - OLY NO SKYBRIDG | E /100 | 0715 | | 437 | 2.6 | | | 1136 | 2/100 | 40.003 |
| | C1234 | H | Hv30A | | 100 | 0725 | 1429 | 424 | 5 | 5 | 5 | 2120 | 1/100 | (0.001 |
| | | | 207067 | | 100 | 0737 | 1424 | 407 | 5 | 5 | 5 | 2035 | 8/100 | 0.002 |
| - | C1236 | | | _ | 100 | 0739 | 1423 | 405 | 5 | 5 | 5 | 2020 | 100 | 0.002 |
| | | | 1 | LVI @ ELEVATOR | /100 | 0750 | 1010 | 140 | 3 | 3 | 3 | 420 | 47/100 | 0.055 |
| 1 | C1237 INA 208518 | | | Lv 2 @ 264 A | 1-3/100 | 0782 | 1007 | 135 | 3 | 3_ | 3 | 405 | 16/100 | 0.020 |
| | | | | | | <u> </u> | | | | | | | | |
| | | | | | | 1 | | | | | | | | |
| Recount Sa | mple# | U125 | Pogginat | 7/00 | | | | <u>.</u> | | - | | | | |
| Necount 3a | impie # | ٠٠٠ | Recount | 7/100 | | <u></u> | | | | | | | | |



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| Project Na | me: PIERCE | Coul | 5 6 6 014 | MPIC SOUTH ABATEMENT | T & REPA | 25 | WEATH | ER/TEMP | : | Comme | nts: | • | | |
|-----------------------|--|-------------------|------------------|-----------------------------------|---------------------|----------------------------------|-------|---------|----------|-----------------|--------|----------|---------|---------|
| | ·· 40535 | | | I.H. PETER STENS | | | 1 | | | | | | | |
| Location: | LAKEN | | | SAMPLE MEDIA/ANALYTI | ICAL METHOD | • | | | | <u> </u> | | | | |
| Contracto | " Dick | SON | | 1010311 19100 | | | | | | | | | | |
| Client: | Des | 5 | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ME: | ANALYZEI Mike Si | | 120 | AA | DATE/I | TIME: 6/22 | | TWA: | - | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ME: | ANALYZE | | | 1/2 1 | DATE/ | | | | | |
| CODES: | IWA INSID | E AREA | Α | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 2/-/- | | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 2/15/22 | IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP C1240 B C1241 H HV36A | | | FIELD BLANK | | | | | <u> </u> | | | <u> </u> | 0/100 | |
| /- - | 22 C1259 B - / C1240 B - | | | FIELD BLANK | | | | | | | | <u></u> | 0/100 | |
| | | | HV36A | ROOF - NEGAIRO | 7 %00 | 0712 | 1419 | 427 | 5 | 5 | 5 | 2135 | 0/100 | €0.001 |
| $\sqcup \!\!\! \perp$ | | cω A | 6109 | LUZ- OLY N. @ SKYBri | DGE %100 | 0716 | 1422 | 426 | 2.5 | 2.5 | 2.5 | 1065 | 3.5/100 | 40.003 |
| | C1243 | 14 | 090 | W. STAIR - EXHAUST | 2 %00 | 0718 | 1424 | 4260 | 2-1 | 2.1 | 2.1 | 895 | 1/100 | 60.004 |
| | CIZHY | H | 6113 | (EXT) EXHAUST@ 284 | 9/100 | 0720 | 1425 | 425 | 2.7 | 2.7 | 2.7 | 1148 | 1/100 | 40.003 |
| | C1245 | H | 097 | ECE - EXHAUST 2 | 0/100 | 0722 | 1427 | 425 | 2-1 | 2.1 | 2.1 | 893 | .5/100 | ८०.००५ |
| | C1246 | 14 | ୦୫୧ | (EXT) EXHAUST 2@ 28 | _ | 0724 | | | 2-3 | 2.3 | 2.3 | 975 | %00 | (0.00 Y |
| | C1247 | OWA | 207067 | W2 @ LOADOUT | - 0/100 | 0730 | 1433 | 423 | 5 | 5 | 5 | | 1 4 | 0.001 |
| | C1248 | TWA | 208519 | LVI @ ELEVATOR | 2 0/100 | 0740 | 1114 | 214 | 5 | 5 | 5 | 1070 | | 0.015 |
| 4 | C1249 | IWA | 8904 | LV2@ 264A | 0/100 | 0745 | 1112 | 207 | 5 | 5 | 5 | 1035 | - | OADED |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 1 | |
| | | .10 | | 26/ | | | | | | | | | | |
| Recount S | ample# | ۲۱۲ ^{۷۷} | Recount | 35/100 | | | | | | |] | ł | 1 | |



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| Project Na | me: Pierce Co | llege Ol | ympic Sout | h Aba | tement and | Repairs | | | WEATH | ER/TEMP | • | Comme | nts: | | | |
|-------------|---|----------|------------|-------------|-----------------------------------|---------------------|---------------------|---------------------------------|-------|---------|-----------------|-----------------|--------|-------|--------|--------|
| Project No | .: 40535.488 | • | | ļ | .H. የETE | r Stensland |) | | 1 | | | | | | | |
| Location: l | akewood, W | Α | | [5 | SAMPLE ME | DIA/ANALYTICAL METI | HOD: | | | | | · | | | | |
| Contractor | : Dickson | | | | NIWH | 1400 | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | 1E: | | | ANALYZED MIKE SM | BY: | Lla | | DATE/1 2/17/ | | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | | | ANALYZED | BY. | | | DATE/1 | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PL //LU/22 C1250 3 | | | | CLEARANCE AMBIENT AII BLANK | | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | | CODE | PUMP | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 4/1 | WILL CILSO B | | | | ACTI | VITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 7/16/22 | | | ļ | Fie | ELD BL | <u>4014</u> | | | | | | | | | 1/100 | |
| | C1251 | B | | EI | Ero B | LANK | | | | | | | | > | 0/100 | - |
| | C1252 | H | 090 | (EXT |) Exhau | AST 3 @ 283 | | 0705 | 1414 | 429 | 2.1 | 2.1 | 2.1 | 901 | 1/100 | 40.004 |
| | C1253 | 17 | 6109 | EC | E-EX | HAUST 3 | | 0707 | 1412 | 425 | 2-4 | 2.4 | 2.4 | 1020 | 2/100 | 40.003 |
| | C1254 | H | 097 | W. | STAIR | - EXHAUST 3 | -5/166 | 07-10 | 1408 | 418 | 2.1 | 2.1 | 2.1 | 878 | 2/100 | 40.004 |
| | C1255 | 14 | 089 | (EXT | EXHA | UST 3@ 284 | 1.3/100 | 0712 | 1409 | 417 | 2.3 | 2.3 | 2.3 | 959 | 0/100 | Ko.004 |
| | C1256 | си A | 4113 | <u> Lv2</u> | OLY N | @ SKYBRIDGE | 15/100 | 0715 | 1405 | 410 | 2.6 | 2.6 | 2.6 | ľ | | 40.003 |
| | C1257 | H | HV30A | Ro | of - No | EG AIR | 100 | 0721 | 1401 | 400 | 5 | 5 | 5 | 2000 | 0/100 | 40.001 |
| | C1258 | σωΑ | 207067 | Lv | 2 @ L | OADOUT | | 0729 | 1420 | 411 | 5 | 5 | 5 | 2055 | 13/100 | 0.003 |
| ~X | C1259 | οωΑ | 8297 | سا | | DECON | 5/100 | 0731 | 1421 | 410 | 5- | 5 | 5 | 2050 | | 0.005 |
| | C1260 | IWA | 208518 | LV | 1 e | ELEVATOR | 15/100 | 0737 | 0953 | 136 | 5 | 5 | 5 | 680 | OVER | LOADED |
| . ` | C1261 | IWA | 8504 | LV | 2 @ | 264 A | 15/100 | 0742 | 6956 | 134 | 5 | 5 | 5 | 670 | 17/100 | 0.012 |
| | | | | | | | <u>'</u> | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Recount S | count Sample # Recount | | | | 00 | | | | | | | | | | | |



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| Project Na | me: Pierce Co | ollege Ol | ympic Sout | h Abatement and Re | pairs | | | WEATH | ER/TEMP | | Comme | nts: | | | <u></u> |
|-------------|----------------------------------|-------------|------------|---|--------------------|--------------------|-----------------------|-------|---------|----------|-----------------|---------|---------------------|-------------|------------------|
| Project No | o.: 40535.488 | | | I.H. PETE | R STENSLAND | | *** | Ì | | | | | | | |
| Location: L | akewood, W | A | | SAMPLE MEDI | A/ANALYTICAL METHO | D: | | | | | | | | | |
| Contractor | r: Dickson | | | 7070574 | +40U | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | | |
| | SHED BY (SI | GN.): | DATE/TIN | 1E: | | ANALYZED MIKE S | | 1.1.0 | 11 | DATE/T | IME: 8/27 | 2 | TWA: | · | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | | ANALYZE | BY: ''' | | | DATE/T | IME: | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | | PRE EX TEM | PRE-ABAT EXCURSION | N | LE | GBA H | GLOVE E HEPA | BAG ARI | EA | | |
| DATE | SAMPLE NUMBER | CODE | РИМР | | CATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 2/17/22 | | B | | | Y / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD %100 | СС |
| 1 /26 | C1163 | | | FIELD B | | | | | | | | | - | | |
| | C1264 | H | HV30A | | EG AIR OLD | 01 | 0.70 | | | 5 | | <i></i> | | 1/100 | |
| | C1265 | | 6109 | | S Q CONST. Wall | %100 %100 | 0725 | 1408 | 403 | 2.5 | 5 | 2.5 | 2015 | | 40.001 40.004 |
| | C1266 | | 097 | · - | EXHAUST 4 | 1 | 0732 | 14/2 | 400 | 2.5 | 2.3 | 2.3 | <u>1003</u> පි00 | <i>// /</i> | (0.004 |
| | C1267 | | 090 | | 5T 4 @ 284 | | 0734 | 1414 | 400 | 2.1 | 2.1 | | 840 | 1.7 | 50.004 |
| | C1268 | | 089 | ECE - EX | | 9/100 | | 1411 | 395 | 2.3 | 2.3 | | | | 10.004 |
| | C1269 | , | 3 ا ر ما | | STI@ 283 | 0/100 | 0738 | | 400 | 2.6 | 2.6 | | | 6 | |
| | C1270 | AGO | 207067 | | 1.0 SKYBruge | | 0743 | | | 5 | 5 | 5 | 2000 | 5/100 | 0.001 |
| | | | | | CON ENTRY | 0/100 | | 1429 | • | 5 | 5 | 5 | 2020 | 11/200 | 0.003 |
| A | C1272 | IWA | 208518 | LVI @ E | EVATOR | | 0752 | 1202 | 250 | 5 | 5 | 5 | 1250 | 24.5/ | 0.031 |
| 1 | C1273 | IWA | 8504 | LV2@28 | 34 A | 0/100 | 0755 | 1205 | 250 | 5 | 5 | 5 | 1250 | 34/100 | 0.013 |
| | | | | | | | | | | ***** | | | | | |
| | | | | | | | | | | | · | | | | |
| Recount Sa | I ample # | عاملان | Recount | 2/100 | | | <u></u> | | | | | | | | |
| | | · | | | | | | | | · | | L | L | | |



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| Project Na | ime: Pierce Co | ollege Ol | lympic Sou | th Abatement and Repairs | | | WEATH | ER/TEMP | • | Comme | ents: | | | |
|--|--|--|------------|---|---------------------|---------------------------------|----------|-------------|---------------|-----------------|---|-------|---------|--------|
| Project No | o.: 40535.488 | | | I.H. PETER STENSLAN | 7 | | 1 | | | | | | | |
| Location: I | Lakewood, W | Ą | | SAMPLE MEDIA/ANALYTICAL METHO | OD: | | | | | - | | | | |
| Contracto | r: Dickson | | | N105H 7400 | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | , | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZEI Mike Sm | | 18 | 1.1 | DATE/1 2/2 | IME: | *************************************** | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | AE: | ANALYZE | | | | DATE/ | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUMP 18/22 C1274 | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVÉ I HEPA | BAG AR | EA | | |
| DATE | SAMPLE CODE PUMP | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 2/10/00 | SAMPLE CODE PUMP | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 10/22 | TE SAMPLE CODE PUMP 22 C1274 13 - C1275 13 - C1276 14 090 | | | FIELD BLANK | | | | | - | === | | | 0/100 | |
| | C1275 B = | | | FIELD BLANK | | | | | | | | | 0/100 | |
| / | | 1 | | (EXT) EXH AUST 2 @ 283 | 3 | 07-15 | | | 2.1 | 2.1 | | 909 | | 40.003 |
| / | C1277 | - | 097 | ECE - EXHAUST 5 | | 0717 | l | 1 | 2-1 | 2.1 | 1 | 899 | 1100 | <0.003 |
| / | C1278 | - | 6113 | W. STAIRS - EXHAUST I | 0/100 | 0719 | | 423 | 2.5 | 2.5 | | 1058 | 0/00 | <0.003 |
| | C1279 | | 089 | (EXT) EXHAUST 1 @ 284 | 0/100 | 0721 | 1423 | 422 | 2-3 | 2.3 | 2.2 | 971 | 1/100 | 40.003 |
| | C1280 | | 6109 | LV2, OLY N @ COPST Wall | 9/100 | 0724 | 1419 | 415 | 2.4 | 2.4 | 2.4 | 996 | | 50.003 |
| ļ | C1281 | H | HV30A | ROOF - NEGAIR 07 | 9/100 | 0728 | 174160 | 408 | 5 | 5 | 5 | 2040 | 0/100 | 40.001 |
| \ | C1282 | 7 | | OHNE SKYBRIDGE | 0/100 | 0803 | 438 | 395 | 5 | 5 | 5 | 1975 | 5.5/100 | 0.001 |
| Н | C1283 | , | 1 . | LV2 @ 284A | %100 | 0820 | 1042 | 142 | 3 | 3_ | 3 | 426 | 1/100 | 0.020 |
| $\vdash \downarrow \downarrow$ | | | | | | 0805 | 1440 | 395 | 5 | 5 | 5 | 1975 | 13/100 | 0.003 |
| a | 1 C1284 OWA 8297 C1285 IWA 208518 | | | LUI NEAR ELEVATOR | 0/100 | 0825 | 1040 | 145 | 3 | 3 | 3 | 435 | 46/100 | 0.052 |
| | | | | | | | <u> </u> | | | <u> </u> | | | | |
| | | | | | | | | | | | | | | |
| Recount Sa | ount Sample # Recount | | | 17.5/100 | - | | | | | | | | | |
| | | | | | | | <u> </u> | <u></u> | <u> </u> | | L | L | | |



214 E GALER STREET, SUITE 300 SEATTLE, WA 98102 206.233.939

pbsusa.com

Project Name: Pierce College Olympic South Abatement and Repairs

LABORATORY DATA SHEET

Comments:

WEATHER/TEMP:

| Project No | o.: 40535.488 | | _ | I.H. PETER STENSLAN | D | | | | | | | | | |
|-------------|--|--------|----------|---|------------------|----------------------------------|------|----------|-----------------|-------------|--------|----------|----------|----------|
| Location: L | Lakewood, W | Δ. | | SAMPLE MEDIA/ANALYTICAL METHO | D: | | 1 | | | | | | | |
| Contracto | r. Dickson | | | N105H 7400 | | | | | | | | | | |
| Client: DES | 5 | | | | | | • | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | /IE: | ANALYZEI | | 2.2 | 11 | DATE/I 2/2/. | IME: 2 2 | | TWA: | | · |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYŽEI | B¥: / | l' | | DATE/I | | | | | |
| CODES: | IWA INSID | E AREA | Δ | C CLEARANCE A AMBIENT AIR B BLANK | PRÉ EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE E | BAG AR | EA | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FiB | FIB |
| 1011 | CEIVED BY (SIGN.): DATE/TII CEIVED BY (SIGN.): DATE/TII DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA CATE NUMBER C1287 B C1287 B C1289 H 090 C1290 H 6113 C1292 H HV30A C1293 OWA 6109 C1294 GWA 8297 C1296 TWA 208518 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 21/22 | C1286 | B | | FIELD BLANK | | | | | | | | <u> </u> | 100 | |
| | NUMBER CODE POWP 21/72 C1286 B | | | FIELD BLANK | | | | | <u> </u> | | | | 0/100 | |
| | C1287 B - C1288 H 097 (| | | (EXT) EXHAUST 1 @ 283 | 0/100 | 0704 | 1345 | 401 | 2-1 | 2.1 | 2-1 | 842 | %100 | (0.003 |
| | C1289 | H | 090 | ECE - EXHAUST I | 0/100 | 0706 | 1347 | 401 | 2.0 | 2.0 | 2.0 | 802 | 1/100 | Kó.003 |
| | C1290 | 14 | 6113 | W. STAIRS - EXHAUST I | 0/100 | 0710 | 1350 | 400 | 2.2 | 2.5 | 2.5 | 1000 | 1 | Lo.002 |
| | C 1291 | H | 089 | (EXT) EXHAUST 10 284 | 1 | 0711 | I - | 399 | 2.2 | 2.2 | 2-7 | | I * . | 40.003 |
| | C1292 | H | H 430 A | i | 0/100 | 0713 | 1 | 399 | 5 | 5 | 5 | | ·I | (0.001 |
| | C1293 | οωΑ | | i | 0/100 | 0714 | | 394 | 2.4 | 2-4 | 2.4 | I - | l 🗻 🖊 | 40.002 |
| | | | | | 1 . / | 0744 | | 356 | 5 | 5 | 5 | 1780 | | 0.003 |
| | | ı · | | - · · · · · · · · · · · · · · · · · · · | | 0747 | , ,- | 373 | 5 | 5 | 5 | 1865 | | 40.00 |
| | | | | | | 253 | | | 3 | 3 | 3 | 429 | | 0.032 |
| A | C1296 INA 208518 C1297 INA 8504 | | | | 0/100 | 0805 | 1 | 120 | 3 | 3 | 3 | 360 | 19/100 | 0.030 |
| _ | CITA 1 THE BOUT | | | | | | | | | | | | | |
| | | | | | · · | | | | | | ļ | | | |
| Recount S | count Sample # Recount | | Recount | 18/20 | | | | | | <u> </u> | | ļ | | |
| | L | - N | | | | <u> </u> | | <u> </u> | ļ | | | <u> </u> | <u> </u> | <u> </u> |



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LABORATORY DATA SHEET

Comments:

WEATHER/TEMP:

| Project Na | me: Pierce Co | ollege Ol | ympic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | ents: | | | |
|-------------|----------------------------------|-----------|------------|---|------------------|---------------------------------|-------|---------|-----------|------------------|--|-------------|-------------|--------------|
| Project No | .: 40535.488 | | | I.H. PETER STENSLAND | Þ | | 1 | | | | | | | |
| Location: L | akewood, W | Ą | | SAMPLE MEDIA/ANALYTICAL METH | OD: | | 1 | | | | | | | |
| Contractor | : Dickson | | | - NIOSH 7408 | <i>O</i> | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIM | 1E: | ANALYZEI | D BY: Sm/ 71 4/1 | 1.1.1 | | DATE | 13/22 | | TWA: | ··········· | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | 1E: | ANALYZE | D BY: | | 1 | DATE/ | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | 1 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | ON | LE | GBA 'H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FiB |
| 2/ | ATE NUMBER CODE PUMP | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | - | FLD | СС |
| 722/27 | | | | FIELD BLANK | | | | | | | | > | 9/100 | <u> </u> |
| | C1299 | | _ | FIELD BLANK | | | | | | | | -> | 0/100 | |
| | C1300 | OWA | 8297 | LVI CLEAN ROOM | 0/100 | 0718 | 1420 | 422 | 4 | 4 | 4 | | | 10.002 |
| | C1301 | IWA | 208518 | LVI - OFFICE 0169 | 0/100 | 0730 | 1005 | 155 | 3 | 3 | 3 | | | LOAD |
| | C1302 | 14 | 97 | (EXT) EXHAUST 2@ 283 | | 0731 | 1442 | 431 | 3 | 3 | 3 | 1293 | | (0.062 |
| | C1363 | σωΑ | 6109 | LV2, OLY N. @ CONST. DOOR | | 0732 | 1435 | 435 | 2.5 | 2.5 | 2.5 | | 21 | (6.003 |
| | CIBOH | 1+ | 089 | (ENT) EXHAUST 2 @ 284 | 0/100 | 0747 | 1445 | 418 | | 2.3 | 2.3 | _ | 0/100 | (0.003 |
| | C1305 | H | 690 | ECE - EXHAUST 2 | 0/100 | 0749 | 1442 | | 2 | 2 | 2 | | - 4 | Ko. on 3 |
| | C1306 | 1+ | HV36A | ROOF - NEG AR 07 | 0/100 | 0756 | T- | | 5 | 5 | 5 | | ٠. ١ | |
| | CI 367 | Н | | LV2 - W STAIR EXHAUST | | 0749 | | 412 | 2.5 | 2.5 | 2.5 | | ł | Ko.003 |
| | C1308 | IWA | | LU2 - Room 0284 | 0/100 | 0800 | | 133 | 3 | 3 | 3 | | | 0.074 |
| 7 | C1369 | | 207067 | | 0/100 | 0801 | | 399 | 5 | 5 | 5- | | 12/100 | 0.003 |
| : | | | | | | | | | | ्री _क | <u> </u> | | | 1 |
| | | | | | | | | | <u> </u> | ki, | | | | |
| Recount Sa | ample # | Claed | Recount | 13.5/100 | | | | | | | | | | |



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| Project Na | me: P.ERC | E COTT | EGE OL | mpic 5 | OUTH ABATEME | NT E Rei | PAIR | WEATH | ER/TEMP: | | Comme | nts: | | | |
|------------|--|------------|----------|-------------------------------|---------------------------------|------------------|----------------------------------|-----------------------|----------|----------|-----------------|------------------|-------|---------|--------|
| | ·: 40535 | | | | PETER STENSL | | | | | | | | | | |
| Location: | LAKE | | | SAMP | LE MEDIA/ANALYTICA 105H 7400 | L METHOD: | : | | | | | | | | |
| Contracto | Dicks | <u>صم </u> | ٠ | | 1400 | | | | | | | | | | |
| Client: | D∈ 5 | | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | /IE: | | ANALYZED | | 17 | 2/4 | DATE/T | TME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | | ANALYZE | | ilongia _{li} | | DATE/I | • | | ! | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | 4 | C CLEAR A AMBIE B BLANK | NT AIR | PRE EX TEM | PRE-ABAT EXCURSIC CLEARANG | N | LE , | GBA H | GLOVE E HEPA | AG ARI | Ā | | |
| DATE | OWA OUTSIDE AREA TE SAMPLE CODE PUMP NUMBER CODE - | | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 21 1 | NUMBER CODE POMP 22 C1310 B - | | | | IVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 7/15/22 | NUMBER 2 C13)0 B - F10 | | | | BLANK | | | | | | | | | °/100 | |
| | 1 _ 1 — 1 | | | BLANK | | | | | | | | -> | 6/100 | | |
| | C1312 | OWA | 207607 | Lv2 - : | skybridge | °/100 | 0717 | 1240 | 313 | 4 | 4_ | <u> </u> | 1252 | 16/00 | 0.006 |
| | C1313 | Н | 697 | (ExT) E | XHAUST 3 @ 283 | 0/100 | 0727 | 1340 | 373 | 2 - 1 | 2.1 | 2.1 | 784 | 2/100 | K0-003 |
| | C1314 | 6UA | 8297 | LV 1 | - CLEANROOM | %00 | 0730 | 1125 | 235 | 4 | 4 | 4 | 940 | 20.5/00 | 0.005 |
| | C1315 | Н | 6113 | ECE | - EXHAUST 3 | %100 | 0730 | 1341 | 371 | 2.6 | 2.6 | 2.6 | 965 | 001/0 | (0.003 |
| | C1316 | H | 090 | W. STA | INS- EXHAUST 3 | %100 | 0733 | 1344 | 371 | 2.1 | 2.1 | 2.1 | 1484 | 1/100 | (0.002 |
| | C1317 | Н | 980 | (EXT) G | KHAUST 3 @ 284 | 0/100 | 0735 | • | 368 | 2-1 | 2.1 | 2.1 | 773 | 1 | 60,003 |
| | C1318 | Н | 126308 | | - NEG AIR 08 | | 0744 | | 362 | 5 | 5 | 5 | 1810 | | 100.02 |
| 1/ | C1319 | ΙωA | 208518 | | Room 0170 | | 0800 | 1030 | 150 | 3 | 3 | 3 | 450 | | OADED |
| M | C1320 | 1 | 8504 | | Room 0284 | | 0805 | 12.15 | 255 | 3 | 3 | 3 | 765 | OVERL | DADED |
| | | | | | | | | | | | | | | | |
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| Recount S | ample# | 318 | Recount | 2/100 | | | | | | | | | | | |



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| Project Na | me: PIERC | E COU | LEGE DI | HMPIC SOUTH ABATEMEN | IR. | WEATH | ER/TEMP: | | Comme | nts: | | | | |
|------------|---|-------------|----------|---|------------------|----------------------------------|----------|-------|----------|-----------------|--------|----------|--------|---------|
| Project No | : 4053t | 5 . 48 | E | I.H. PETER STENS | | | | | : | | | | | |
| Location: | LAKEW | | | SAMPLE MEDIA/ANALYTICA | L METHOD: | | | | | | | | | |
| Contracto | Dicks | ເພນ | | | | | | | | | | | | |
| Client: | DES |) | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | 1E: | ANALYZET | | 1.19 | SS | DATE/T | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | ANALYZEI | | | Y | DATE/T | • | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 4/22 C1321 B - | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANG | N | LË | GBA H | GLOVE E HEPA | AG ARI | ĒA | | - |
| DATE | ATE SAMPLE CODE PUMP | | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 2/201/ | NUMBER CODE PUMP | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD |) (|
| 124/22 | | | _ | FIELD BLANK | | | | | | | | > | %06 | |
| <i></i> | C1322 | છ | | FIELD BLANK | | | | | | | | <u> </u> | 0/100 | |
| /_ | C1323 | <i>o</i> w₽ | 207067 | LUZ @ SKY BRIDGE | 0/100 | 0711 | 1325 | 368 | 5 | 5 | 5 | 1840 | | 0.005 |
| | C 1324 | OUA | 6113 | LV2 @ CONST. WALL | 001/0 | 0717 | 1335 | 362 | 2.6 | 2.6 | 2.6 | 941 | 4/100 | <0.003 |
| | C 1325 | H | HV36A | ROOF - NEG AIR OG | °/100 | 0721 | 1342 | 381 | 5 | 5 | 5 | 1905 | 6/100 | (0.00) |
| | C1326 | H | 089 | W. STAIR EXHAUST 4 | 0/100 | 0728 | 1327 | 359 | 2 | 2 | 2 | 718 | 2/100 | 40.004 |
| | C1327 | 14 | 090 | (EXT) EXHAUST 4 @ 284 | <u> </u> | 0730 | 1328 | 358 | 2 | 2 | 2 | 716 | | 40.004 |
| | C1328 | H | 097 | ECE - EXHAUST 4 | 0/100 | 0732 | 1330 | | 2 | 2 | 2 | 216 | °/100 | So-noci |
| __ | .C1329 | INA | 208518 | LV2 - Room 0284 | 9/100 | 0809 | 1100 | 171 | 3 | 3 | 3 | 513 | 52/100 | 0.050 |
| M | C1330 | IWA | | LVI - ROOM 0170 | 0/100 | | 1049 | 138 | 3 | 3 | 3 | 414 | 28/00 | 9.033 |
| | | | | | | | | | | | | | | |
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| Recount S | ample # | (3) | Recount | 16/100 | | | | | | | | | | |



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|------------|----------------------------------|------------|-------------|-----------------------------------|------------------|-----------------------|---------|-----------|----------|-----------------|--------|------------------|---------------------------------------|------------------|
| Project Na | me: PIERC | E COU | EGE OL | YMPIC SOUTH ABATEMEN | T & REPA | IR. | WEATH | ER/TEMP | : | Comme | nts: | | | |
| Project No | 4053 | 5.4 | 88 | I.H. PETER STENSL | Bup | | | | | | | | | |
| Location: | | | AN AC | SAMPLE MEDIA/ANALYTICA | L METHOD | : | | | | | | | | |
| Contractor | | (501) | - | . , , , , , , | | | | | | | | | | |
| Client: | De | <u>=</u> S | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TII | ME: | ANALYZEI | | niel | SA | DATE/1 | TIME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TII | ME: | ANALYZEI | BY: | | | DATE/1 | IME: | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | Δ. | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION | N | LE | GBA H | GLOVE E HEPA | BAG AR | A | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | · | TOTAL | FIB | FIB |
| | DATE SAMPLE CODE PUMP | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 725/22 | C1331 | B | _ | FIELD BLANK | | | | | | | | -> | 1/100 | _ |
| | C1332 | 8 | _ | FIELD BLANK | | | | | | | | -> | 1/100 | |
| | C1333 | H | HV36A | ROOF-NEG AIR 07 | 1/100 | 0652 | 1406 | 434 | 5 | 5 | 5 | 2,170 | 0/100 | <0.001 |
| | C1334 | 6WA | 6113 | LV2 COAST WAIL | 1/100 | 0703 | 1469 | 426 | 2.4 | 2.4 | 2.4 | 1022 | 3/100 | <0.003 |
| | C1335 | H | 697 | LV2 BALLOW HEPA 2 | 1/100 | 0707 | 1411 | 424 | 2 | 2 | 2 | 848 | i _ | 40.003 |
| | C1336 | H | 090 | (ExT) EXHAUST 2 @ 283 | 1/100 | 0710 | 1412 | 422 | 2 | 2 | 2 | 844 | 100 | <u>ζο. τος 3</u> |
| | C1337 | H | 089 | (EXT) EXHAUST I @ 283 | 4/100 | 0713 | 1414 | 421 | 2.2 | 2.2 | 2.2 | 926 | 100 | Kn.003 |
| | C1338 | IWA | 8504 | LV2 NEAR ELEVATOR | 1/100 | 0744 | 1134 | 230 | 3 | 3 | 3 | 690 | 27.5/100 | 0.019 |
| | C1339 | OWA | 207067 | LV2 @ SKY BRIDGE | 1/100 | 0720 | 1417 | 417 | 5 | 5 | 5 | 2085 | 177 | 6.001 |
| • | C1340 | TWA | 208518 | LV 10 Room 0170 | 1/100 | 0815 | 1139 | 204 | 3 | 3 | 3 | 612 | 60/100 | 5.047 |
| | | | | | | | | , | | | | | | |
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| Recount Sa | ample# | C(330) | Recount | 29/100 | | | | | | | | | | |



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| Project N | ame: Pierce C | ollege O | lympic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP |): | Comme | ents: | | | |
|------------|--|--------------------|---------------------------------------|---|------------------|---------------------------------|-------|---------|-----------|-----------------|--------|--------|---------|--------|
| Project N | o.: 40535.488 | | | I.H. PETER STENSLAN | 4 | | 1 | | | | | | | |
| | Lakewood, W | Α | · · · · · · · · · · · · · · · · · · · | SAMPLE MEDIA/ANALYTICAL ME N 105H 7400 | THOD: | = | | | | | | | | |
| | r: Dickson | | | _ | | , | | | | | | | | |
| Client: DE | | CNA | | | | | | | | <u> </u> | | | | |
| KELINQU | ISHED BY (SI | GN.): | DATE/TIM | | ANALYZEI | D BY: IM ITH / | n 10 | 1 | DATE/ | | | TWA: | | |
| RECEIVE | BY (SIGN.): | | DATE/TIM | E: | ANALYZE | | t | X17/ | DATE/ | | | 1 | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABA EXCURSION CLEARAN | NC | LE | GBA iH | GLOVE I HEPA | BAG AR | EA | · | |
| DATE | NUMBER CODE PUMP ACTIVITY / PERSON | | | | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 2/28/22 | | В | _ | FIELD BLANK | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| / | C1347 | В | | FIELD BLANK | | | | | | | | -> | | |
| | C1343 | 14 | 090 | ECE - EXHAUST I | 9/100 | 0724 | U146 | 11000 | 4.5 | 4.0 | 20 | C + 15 | 0/100 | |
| | C1344 | 14 | 097 | | 0/100 | 0726 | | 405 | | | 2.0 | | 0/100 | 50.003 |
| | C1345 | 1.1 | 1 - 1 | W. STAIR - EXHAUST 1 (EXT) EXHAUST 1 @ 284 | | 0727 | | 404 | 2.0 | | | 808 | | 50.003 |
| | C1346 | Oc. A | | LV2, OLY N@ CONST. GIGII | 0/100 | 0731 | 1918 | 403 | 2.5 | | | 897 | 515/100 | Ko.003 |
| | C1347 | 1 . | HY30A | _ · · · · | 0/100 | 0735 | | | 5- | 5 | 5 | 2010 | 1 1 2 | 0.003 |
| | | | | LV2 @ SKYBRIDGE | 0/100 | 0744 | 1 | | 5- | 5 | 5 | | 5/100 | 0.001 |
| | C1349 | | | LV2 @ 284 | 9/100 | 0754 | 1 | | 3 | 3 | 3 | | | 0.046 |
| 1 | C1350 | | I I | LVZ @ 0172 | 9/100 | 0800 | | 139 | 3 | 3 | 3 | 417 | 27/100 | 0.032 |
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| Project N | lame: DIERO | ECo | iele C | LYMPIC SOUTH ABIATED | WIT PREDA | 2:22 | WEATH | ER/TEMP: | | Comme | nts: | | | |
|-----------|----------------------------------|--------|----------|-----------------------------------|------------------|-----------------------|-------------|---------------|----------|-----------------|--------|------------|------------|----------------|
| Project N | lo.: 405:35 | = 499 | 3 | I.H. PETER STE | N42.79 XII | ` | | | | | | | | |
| | LAKEW | | | SAMPLE MEDIA/ANALYTI | CAL METHOD | : | | | | 1 | | | | |
| Contract | or: Dicks | ion! | | - NICSH 7400 | | | | | | | | | | |
| Client: | 765 | | | | | | | 1 | | | | | | |
| | JISHED BY (SI | GN.): | DATE/TIN | ME: | ANALYZEI | | ~ / (Z) | 11 | DATE/ | IME: | | TWA: | | |
| RECEIVE | D BY (SIGN.): | | DATE/TIN | ME: | ANALYZEI | | MIVT | * Kar | DATE/ | | - | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | Α | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION | N | LE | GBA H | GLOVE E HEPA | BAG AR | E A | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL | FIB FLD | FIB CC |
| 3/1/22 | C1351 | B | | FIGID BLANK | | | 0 | | | 1031 | 7.0 | -> | %00 | |
| , | C1352 | В | | FIELD BLANK | | | | | | | | | 0/100 | · |
| | C1353 | | 089 | ECF - EXHAUST 1 | 0/100 | 0725 | 1469 | 464 | 2.3 | 2.3 | 2.2 | 929 | 1/100 | ₹03.0 5 |
| | C1354 | 1-1 | 097 | W. STATR - EXHAUST | 1 T | 0727 | | | 2.1 | 2.1 | 2. | 8410 | | 40,003 |
| | C 1355 | İĴ | 090 | (EXT) EXHAUST 2 @ 254 | 1 0/100 | | 1411 | 401 | 2.1 | 2.1 | 2.1 | 942 | 1/100 | LOICE |
| | C1356 | owA | 6113 | iva out Necenstii | al 0/100 | 0733 | 1414 | 40 | 2,6 | 7.10 | 2.10 | 1043 | 4/100 | K0.003 |
| | C1357 | it | HV30A | ROOF - NEG AIRC | 7 C/100 | 0737 | 1417 | 392 | 5 | 5 | 5 | 1960 | %100 | 40.00 |
| | C1358 | OWA | 207007 | LV2@SKYBRIDGE | 0/100 | 0745 | 1422 | 397 | 5 | 5 | 5 | 1985 | | (0,CO) |
| | | | | LV2@ 294 | | 075) | 1031 | 160 | 3 | 3 | 3 | 480 | 24/106 | 0.025 |
| | C1360 | INF | 202518 | Ly I W. Sing of Ly | . 0/100 | 0753 | 1033 | 0عاز | 3 | 3 | 3 | 480 | 2 /100 | 0=03D |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Recount | Sample # | 135 | Recount | 12/100 | | | | | | | | | | |



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| Project Na | me: PERC | E Coil | EGE DL | YMPIC SOUTH A BATEMENT | & REPA | 12 | WEATH | ER/TEMP | : | Comme | nts: | | | |
|--------------------------------|---|--------|----------|-----------------------------------|--------------------|---------------------------------|----------|----------|----------------|---------|--------|-------|--|----------|
| Project No | :40535 | -, 488 | 9 | I.H. PETER STENSE | AND | | 1 | | | İ | | | | |
| | LAKEUD | | | SAMPLE MEDIA/ANALYTICA | | • | 1 | | | : | | | | |
| Contracto | BICK. | SON | | | | | | | | | | | | |
| Client: | DES | | | | | | | | | | | | | |
| RELINQU | SHED BY (SI | GN.): | DATE/TI | ME: | ANALYZEI MIZESM | D BY: | ilx | | DATE/1 2/3/ | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | ME: | ANALYZEI | D BY: | 1 | | DATE/1 | | | 1 | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE E | BAG AR | EA | | |
| DATE | | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 2/ | | | <u> </u> | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 3/2 | C1361 | | | FIELD BLANK | | | | | † | | | > | 0/100 | |
| | C1362 | B | | FIELD BLANK | | | | ļ | | | | > | 0/100 | |
| $\vdash \!\!\!\!/ \!\!\!\!\!-$ | C1369 | H | Hv30A | ROOF - NEG AIR | 9/100 | 0759 | 1412 | 373 | 5 | 5 | 5 | 1865 | %100 | 40.001 |
| <u> </u> | C1364 | 1+ | 097 | W. STOW- EXHAUST 3 | | 0747 | 1422 | 395 | 2.1 | 2.1 | 2.1 | 830 | 1/100 | 40.003 |
| } | C1365 | H | 089 | (EXT) EXHAUST 1 @ 283 | 9/100 | 0743 | 1426 | 400 | 2.3 | 2.3 | 2.3 | 920 | 0/100 | 40.003 |
| | C1366 | H | 6113 | ECE - EXHAUST 3 | 0/100 | 0745 | 1429 | 404 | 2-6 | 2.6 | 2.4 | 1650 | 0/100 | 40.063 |
| | C1367 | OWA | 090 | LUZ, OLY Ne CONST. Wa | 119/100 | 0752 | 1419 | 387 | 2-1 | 2.1 | 2.1 | 813 | 2/100 | 10.003 |
| 7 | C1368 | GUA | 207067 | LV2@ SKY BRIDGE | %/100 | 0808 | 1436 | 382 | 5 | 5 | 5 | 1910 | 1/100 | (v. 00/ |
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| Recount S | ample # | C1368 | Recount | %00 | | | | | <u> </u> | | • | | | |



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| Drainet Na | | - 0 | A | - 1 | | | WEATH | ER/TEMP | | Comme | mác. | | | |
|-------------|---|-------|--------------------------|-----------------------------------|--------------------|---------------------------------|------------|-------------|----------|-----------------|---------|-----------------|---------|--------|
| Project Na | me: MERCE | Cou | 66E <i>01</i> | AMPIC 5. ABATEMENT & | REPAIR | 5 | IVVEA I II | EIQ I EIVIF | • | Connine | iits: | | | |
| Project No | :40535 | .488 | 3 | I.H. PETER STENSL | | | | | | | | | | |
| Location: ¿ | AKEWA | OP, U | VA | SAMPLE MEDIA/ANALYTICA | L METHOD | : | | | | | | | | |
| | | | | 1000 F-too | | | | | | | | | | |
| Client: | | | - | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZEI MikeSm | BY: | 111 | XA | DATE/ | IME: | 2 | TWA: | | 7.11 |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | | | — V | DATE/1 | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG ARI | ĒA | | |
| DATE | CEIVED BY (SIGN.): DATE/TIL DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUMP C1370 B C1371 H 089 C1372 H 097 C1374 IT 096 C1375 H HV30A C1374 IWA 8504 C1377 IWA 208518 | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FiB | FIB |
| | ELINQUISHED BY (SIGN.): DATE/TILE CEIVED BY (SIGN.): DATE/TILE DES: P PERSONAL INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUMP C1370 B C1371 H 089 C1372 H 097 C1374 H 096 C1375 H HV30A C1376 IWA 8504 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 2/3/22 | DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE PUMP C1370 B | | | FIELD BLANK | | | | | | | | > | 9/100 | |
| | DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 1/22 C1369 B - C1370 B - C1371 H 089 C1372 H 097 C1374 H 097 C1374 H 096 C1375 H HV30F | | | FIELD BLANK | | | <u> </u> | | | | | -> | 1100 | |
| | OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP C1340 B C1341 H 089 C1342 H 094 C1343 CDA 6113 C1344 H 096 | | | (EXT) EXHAUST 20283 | 9/100 | 0722 | 1409 | 407 | 2.3 | 2.3 | 2.3 | 936 | 1100 | Lo.003 |
| \coprod | NUMBER 1/22 C1369 B - C1370 B - C1371 H 089 C1372 H 097 | | | W. STAIRS - EXHAUSTS | 0/100 | 0726 | 1412 | 406 | 2.1 | 2.1 | 2.1 | 853 | 0/100 | ⟨०.∞3 |
| | C1373 | CL) A | 6113 | CLYN @ CONST Wall | 0/100 | 0728 | 1414 | 400 | 2.6 | 2.6 | 2.6 | 1056 | 2/100 | <0.003 |
| | C1374 | 14 | 096 | ECE-EXHAUST 4 | 0/100 | 0729 | 1910 | 40) | 2.1 | 2.7 | 2.1 | 842 | 100 | <0.∞3 |
| <u> </u> | C1375 | H | HY30A | ROOF - NEG AIR OG | 0/100 | 0733 | 1417 | 404 | 5 | 5 | 5 | 2020 | 0/100 | 6,003 |
| | C1376 | IWA | 8504 | 1v2 @ Rm 284 | | 0755 | 1349 | 354 | 3 | 3 | 3 | 1062 | | 0.008 |
| | C1347 | IWA | 208518 | LVI Rm 172 | %100 | 0759 | | 357 | 3 | 3 | 3 | 107/ | 13/00 | 0.010 |
| | C1378 | cwA | 207067 | LY2 @ SKYBRIDGE | 1/100 | 0821 | 1402 | 341 | 5 | 5 | 5 | 1705 | <u></u> | 20,002 |
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| Recount S | l ample # | 0346 | Recount | 15/100 | | <u> </u> | <u> </u> | <u> </u> | | | | | | |



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| Project No | mo: D | | | | <u> </u> | | WEATH | ER/TEMP | • | Comme | nte: | | | |
|---------------|--|---------|----------|------------------------------------|------------------|---------------------------------|--------------|-------------|----------|-----------------|--------|-------------|---------|--------|
| Project Ne | ine. FIERCE | E COLL | EGE OI | LYMPIC SOUTH ABATEMN | T & REPI | 9125 | MATURE. | ELA I PIAII | • | Comme | nıs. | | | |
| Project No | :: <i>405</i> 35 | T. 48 | 8 | I.H. PETER STENSE | LAND | | | | | | | | | |
| Location: | LAKEWOO | D. 4 | JA | SAMPLE MEDIA/ANALYTICA NIOSH 4400 | | : | | | | | | | | |
| Contracto | | 7 | | TOOK FAEC | | | | | | | | | | |
| Client: | | | | | • | | | | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TIN | /iE: | ANALYZEI | | The state of | 11 | DATE/I | | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | Æ: | ANALYZE | | may / | 774 | DATE/ | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMB | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | ĒĀ | | |
| DATE | DATE/TIME CEIVED BY (SIGN.): DATE/TIME CODE PUMP P | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | , | TOTAL | FIB | FIB |
| 2/11 | DATE SAMPLE NUMBER CODE PUMP LOCATION ACTIVITY / PM 4/22 C1379 B - FIELD BLA C1380 B - FIELD BLA | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 3/4/22 | C1379 | B | | FIELD BLANK | | | | | <u> </u> | <u> </u> | - | \geq | %00 | |
| | | | | | ~ | | | | | | | | 9/100 | |
| | C1381 | 17 | 597 | (EXT) EXHAUST 3 @283 | 0/100 | 0704 | 1340 | 396 | 21 | 2,1 | 2.1 | 832 | .5/100 | 50003 |
| | C1382 | 17 | 089 | ECE - EXHAUST 3 | 0/100 | 0707 | 1340 | 393 | 2.3 | 2.3 | 2-3 | 904 | 0/100 | <0.003 |
| | C1383 | [pi | 090 | (EXT) EXHAUST 4 @ 284 | 0/100 | 0709 | 1342 | 393 | 2.1 | 2.1 | 2.1 | 825 | 0/100 | C0,003 |
| | C1384 | CWA | 6113 | LV2, OLY NOCONST, Wall | | 0711 | 1345 | | 2.6 | 2.6 | 2.6 | 1024 | 2/100 | 40.003 |
| | C1385 | H | HV30A | ROOF-NEGAIR 07 | 0/100 | 0716 | 1350 | 394 | 5 | 5 | 5 | 1970 | 0/100 | 10,001 |
| \mathcal{L} | c1386 | OWA | [| IV2 @ SKYBRIDGE | 0/100 | 0722 | 1030 | 188 | 5 | 5 | 5- | 940 | 2/100 | (0.0b3 |
| | C1387 | | | LV2 @ 284 | | 0737 | 1015 | 158 | 5 | 5 | 5 | 790 | 9/100 | 0.000 |
| | C1388 | IWA | 8504 | LVI RM 172 | 0/100 | 1 - | 1000 | 146 | 3 | 3 | 3 | 438 | 13.5/00 | 0.015 |
| | | | | | | | | | | | | | | |
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| Recount S | ample# | C131901 | Recount | %00 | | | | | | | | | | |



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| Project Na | ame: Pierce Co | ollege Ol | ympic Sou | h Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | - | |
|------------|--|-----------|-----------|---------------------------------------|--------------------|-------------------|---------|---------|----------|-----------------|--------|-------------|---------|--------------|
| Project No | o.: 40535.488 | | | I.H. PETER STENSLAND | | | 1 | | | | | | | |
| Location: | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICAL MET | HOD: | | 1 | | | | | | | |
| Contracto | r: Dickson | | | N105H 7400 | | | | | | | | | | |
| Client: DE | S | | | | | | | | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TII | ΛE: | ANALYZEI MIKE S | | 1º 1 D | 14 | DATE/ | TIME: /22 | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TII | ле: | ANALYZEI | | <u></u> | VDZ V | DATE/ | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP C1389 B | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABATEXCURSION | NC | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | INQUISHED BY (SIGN.): DATE/TO BY (SIGN.): DATE | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 3/7/22 | SAMPLE CODE PUMP NUMBER B 122 C1389 B | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | |
| 77/22 | /22 C1389 B - / C1390 B - | | | FIELD BLANK | | | | | | | | | 0/100 | I |
| | / C1390 B | | 289 | FIELD BLANK (EXT) EXHAUST 10 283 | 6/100 | 0722 | 1112/2 | 434 | 2.3 | 2-3 | 2.3 | 998 | 7700 | <0.003 |
| | | | 097 | ECE - EXHAUST | | 0724 | T | 430 | 2-1 | 1 | 2.1 | 903 | | 40.003 |
| | | Н | 090 | W. STAIR - EXHAUST I | T | 0726 | | 429 | 2.1 | 2.1 | 2.1 | | l. / | 40.003 |
| | C 1394 | ٥٨٨ | 6113 | OLY N. LV2@ CONST. Wall | 0/100 | 0728 | 1428 | 426 | 2.4 | 2.6 | 2.6 | 1108 | T | 40.003 |
| | C1395 | 1+ | HV30A | ROOF-NEG AIR OG | 0/100 | 0733 | 1431 | 418 | 5 | 5 | 5 | 1045 | 1.5/00 | 40.∞3 |
| <u> </u> | | 1 | | WI @ SKYBRIDGE | | 074) | 1438 | | 5 | 5 | 5 | 2085 | | K0.001 |
| | C1397 | | | | 0/100 | 0750 | 1019 | 149 | 3 | 3 | 3 | 447 | 7.5/100 | 0.008 |
| V | C1398 | IWA | 208518 | LV 1 @ Rm 172 | 0/100 | 0753 | 1016 | 143 | 3 | 3 | 3 | 429 | 9/100 | 0.010 |
| | | | | | | - | | | | | | | | |
| | | <u> </u> | | · · · · · · · · · · · · · · · · · · · | | <u> </u> | | | | | | | | |
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| | | -1397 | | (0/ 0 | | <u>.</u> | | | <u> </u> | | | | | |
| Recount S | Sample # | F12, | Recount | 6/100 | | 1 | | | 1 | } | | 1 | | 1 |



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| Project Na | ame: Pi ERC | (E CO | LEGE | OLYMPIC SOUTH ABATE | MNT FRE | PAIR_ | WEATH | ER/TEMP | : | Comme | nts: | | | |
|------------|---|----------|----------|-----------------------------------|------------------|---------------------------------|-------|---------|---------------|-----------------|----------|-------|--------|--------|
| Project No | o: 4053 | 5.4 | 188 | I.H. PETER STENS | SCAND | | | ٠ | | | | | | |
| Location: | LAKEWO | υ, Δα | NA | SAMPLE MEDIA/ANALYTICA | | : | | | | | | | | |
| П | r. Dickson | | | - NIOSH 7400 | , | | ļ | | | | | | | |
| Client: | DES | | | | | | | | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZEI | | | A | DATE/ 3/9/ | TIME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ЛЕ: | ANALYZEI | | | , | DATE/ | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | Ą | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 3// | <u> </u> | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 3/8/22 | OWA OUTSIDE AREA SAMPLE CODE PUMP NUMBER | | | FIELD BLANK | | | | | | | | -> | 0/100 | |
| | / C1400 B | | | FIELD BLANK | | | | | <u> </u> | | <u> </u> | | 1100 | |
| | C1400 B C | | | W. STANZ EXHAUST 2 | . 5/100 | 0724 | 142子 | 423 | 7 · l | 2· l | 2.1 | 886 | 100 | <0.003 |
| | C1402 | 1-1 | 090 | (EXT) EXHAUST 2 @283 | | 0726 | 1430 | 424 | 2 · l | Z · l | 2.1 | 890 | 1/100 | <0.003 |
| | C1403 | H | 089 | ECE-EXHAUST2 | 15/100 | 0727 | 1428 | 421 | 2.3 | 2.3 | 2.3 | 968 | 1/100 | Ko.po3 |
| | C1404 | <u></u> | HV30A | ROOF- NEGAIRO7 | 5/100 | 0736 | 1415 | 399 | 5 | 5 | 5 | 1995 | 0/100 | L0.001 |
| | C1405 | ow A | 207067 | LV2@5KyBRIDGE | 15/100 | 0743 | 14 35 | 412 | 5 | 5 | 5 | 2000 | 3/100 | 40.001 |
| | C1406 | IWA | 8501 | LV2 @ Rm 272 | 15/100 | c746 | 1004 | 138 | 3 | 3 | 3 | 414 | 13/100 | 0.015 |
| | C1407 | IWA | 208518 | CVI@ Rm 172 | 15/100 | 0748 | 1007 | | 3 | 3 | 3 | 417 | 9/100 | 0.010 |
| | C1408 | οωΑ | 6113 | LV2 @ CONST Wall | 1 / / 0 | 0752 | 1412 | 380 | 2.6 | 2.6 | 2-60 | 988 | 2/100 | ८०.∞3 |
| | C1409 | | 8297 | | 19/100 | 0821 | 1418 | 357 | 5 | 5 | 5 | 1785 | | (0,002 |
| | | <u> </u> | | | | | | | | | | | | |
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| Project Na | me: PIERCE | E Cou | LEGE (| OLYMPIC SOUTH ABATEMEN | IT & REPA | 185 | WEATH | ER/TEMP | : | Comme | nts: | | | · · · · · · · · · · · · · · · · · · · |
|------------|----------------------------------|--------|-------------|--------------------------------------|--------------------|----------------------------------|-------------|---------------|----------|-----------------|--------|-------|------------|---------------------------------------|
| Project No | : 4053 | 35,4 | 88 | I.H. PETER STENSI | | - | | | | | | | | |
| Location: | LAKEN | MOD. | | SAMPLE MEDIA/ANALYTICA NIOS H 74/00 | L METHOD | : | 1 | | | | | | | |
| Contractor | DIEKS | ON | | 70703.17 7 7 | | | | | | | | | | |
| Client: | Des | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ЛE: | ANALYZEI Mike S | D BY: | 1-10 | AA | DATE/I | | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZEI | | man C. / | 1001 | DATE/1 | | | | | |
| | P PERSO IWA INSID OWA OUTS | E AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANO | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | FLOW | AVG | TOTAL | FIB FLD | FIB CC |
| 3/9/22 | C1410 | 13 | - | FIELD BLANK | | | | | | | | 7 | %00 | |
| | C1411 | B | | FIELD BLANK | | | | | | | | | 6/100 | |
| | C1412 | 1+ | e 89 | (EXT) EXHAUST 30283 | 9/100 | 0714 | 1345 | 391 | 2.3 | 2.3 | 2.3 | 899 | | ८०.∞3 |
| | 01413 | H | 090 | ECE - EXHAUST 3 | %00 | 0716 | 1346 | 390 | 2-1 | 2.1 | 2.1 | 819 | 1/100 | Le.003 |
| | C1414 | 14 | 097 | | 0/100 | 0718 | 1348 | 390 | 2.1 | 2.1 | 2.1 | 819 | 1/100 | <0.003 |
| | C1415 | owA | 6113 | LV2, OLY NO CONST. Wall | 9/100 | 6721 | 1354 | 393 | 2.6 | 2.6 | 2.4 | 1022 | °/100 | K0,003 |
| | C1416 | H | 1 | ROOF-NEGAIR 08 | 1 | 0725 | 1358 | 453 | 5 | 5 | 5 | 2265 | 1100 | 40.001 |
| 1 | C1417 | OWA | 8297 | @ 5. SCAFFOLD CONTAIN | | 0731 | 1351 | 380 | 5 | 5 | 5 | 1906 | 1100 | 40.00 € |
| | C1418 | OWA | 20706 | IV2 @ SKYBRIDGE | 6/100 | 0739 | 1403 | 384 | 5 | 5 | 5 | 1920 | 3/100 | 60,00 i |
| | C1419 | IWA | 850 i | Lv2@ Rm 272 | °/100 | 0749 | 1123 | 214 | 3 | 3 | 3 | 642 | 3/100 | 50.064 |
| * | C1420 | IWA | 208518 | LVIE Rm 172 | 9/100 | 6752 | 1122 | 210 | 3 | 3 | 3 | 630 | 6/100 | 0.005 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | <u> </u> | | | | | |
| Recount Sa | ample # | 81418 | Recount | 3/inc | | | | ** | | | | | | |



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| Project Na | me: PIERCE | E COLL | EGE OL | impic S | OUTH ABATEMAT ! | REPAIRS | | WEATH | ER/TEMP: | | Comme | nts: | · · · · · · · · · · · · · · · · · · · | | |
|--|---|--|----------|---------|---------------------------|---------------------|---------------------------------|-------|----------|----------|-----------------|--------|--|---------|--------------|
| Project No | : 40535 | 488 | | I.H. | PETER STENSLA | AND | · | | | | | | | | |
| Location: | LAKEW | | A | SAN | IPLE MEDIA/ANALYTICA | L METHOD | : | | | | | | | | |
| Contractor | Dick | SON | | ╗ ^ |) 103H F=100 | | | | | | | | | | |
| Client: | DES | | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | 1E: | · | ANALYZEI MIKE SM | DBY: | IOL | 1.4 | DATE/T | | | TWA: | | |
| RECEIVED | BY (SIGN.): | · | DATE/TIN | 1E: | | ANALYZEI | | | | DATE/T | | | | | |
| CODES: | OWA OUTSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP | | | | ARANCE BIENT AIR NK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | _E | GBA H | GLOVE E HEPA | BAG AR | ĒA | | |
| DATE | IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 2/22 C:421 B - | | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 3/0/00 | NUMBER CODE POMP | | | | CTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | °C |
| 710/22 | 122 C1421 B - | | | | D BLANK | | | | | | | | | 0/100 | ************ |
| | | IH | -67 | | D BLANK | 0/0 | | wiam | .11.2.0 | - | | 4 | 200 | 0/100 | |
| \vdash | C1423 | | 097 | | EXHAUST 4 | 0/100 | 0709 | 1428 | | 2.1 | 2:1 | 2.1 | 922 | 0/100 | <u> </u> |
| | C1424 | | , | | 41R-EXHAUST 4 | 0/100 | 0710 | 1433 | | 2.3 | | 2.3 | | | <0.003 |
| | C1425 | | | | XHAUST 1-@284 | 0/100 | 0712 | | | 2.1 | 2.1 | 2.1 | 972 | 0/100 | <u> </u> |
| | C1426 | | 6113 | LV2, 01 | YN-CONST Wall | 0/100 | 0716 | | 441 | 2.7 | 2.7 | 27 | | 2/100 | L0.002 |
| | C1427 | H | HY30A | ROOF | - NEGAIR 06 | | 0722 | 1440 | 438 | 5 | 5 | 5 | 2190 | | 60.001 |
| | C1428 | DE)A | 207007 | 4121 | @ SKYBRIDGE | 0/100 | 0740 | 1400 | 380 | 5 | 5 | 5 | 1900 | 2/100 | (0,00) |
| W | C1429 | IWA | 8504 | LV2 | @ Rm 242 | 0/100 | 0743 | 1225 | 282 | 3 | 3 | 3 | 846 | 6 5/100 | 0.004 |
| ** | C1430 | IUA | 208518 | LVI | e Rm 172 | 0/100 | 0746 | 1335 | 349 | 3 | 3 | 3 | 1647 | 18/100 | 0.008 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Recount S | ample # | 2,429 | Recount | 5/100 | | 1 | | | | | | | | | |



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| Project Na | me: $ ho_{i \in \mathcal{R} c \epsilon}$ | Coin | GE OLYN | 1911-SOUTH ABATEMENT & R | EPAIRS | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|------------|--|--------|----------|--------------------------------------|---------------------|----------------------------------|---|---------------|-------------------|-----------------|--------|--------------|------------|-----------|
| Project No | 40533 | 5, 48 | 8 | I.H. PETER STENSIA | I-N/D | | 1 | | | | | | | |
| Location: | LAKENO | DD, | | SAMPLE MEDIA/ANALYTICA NIOSH 7400 | L METHOD | | | | | | | | | |
| Contractor | Dicks | ON | | | | | | | | | | | | |
| Client: | DES | | | | | | | / 1 | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | ME: | ANALYZEI Mike Sm | BY: | 10 | 12/ | DATE/ 3/14 | | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ME: | ANALYZEI | D BY: | , , , , , , , , , , , , , , , , , , | 1.00 | DATE/ | | | 1 | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | Δ. | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | NC | ·LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 3/1/22 | NUMBER CODE PUMP | | | | AVG | ON | OFF | TOVE | PRE | PUSI | AVG | VOL | %00 | |
| 1 | | | | | | | | | | <u> </u> | | <u> </u> | 9/100 | |
| | C1433 | | 211607 | | °/100 | 1140 | 1210 | an | 14 | 14 | 111 | 1260 | 1.57 | 60.002 |
| | C1434 | FJ | 089 | ECE-EXHAUST 5 | | 0655 | 1 | 457 | 2.3 | 2.3 | 2.3 | 1051 | 0/100 | 40.003 |
| | C1435 | H | 097 | W. STAIR EXHAUST ! | 0/100 | 0657 | | T | 2-1 | 2-1 | 2-) | 957 | 0/100 | 10.003 |
| | C1436 | H | | (EXT) EXHAUST 30284 | %100 | 0659 | 1 | 452 | 2-1 | 2.1 | 2.1 | 949 | | Lo.003 |
| | C1437 | 1 * - | ` | LV2, OLYN A CONST Wall | 0/100 | 0701 | 1423 | | 2.7 | 2.7 | 2.7 | 1193 | 1. / | Ko.002 |
| | C1438 | H | | ROOF-NEGAIR OF | 0/100 | 0705 | 142/0 | | 5 | 5 | 5 | 2205 | | Lo.00 |
| | C1439 | JWA | 200510 | j | 0/100 | 0751 | 1418 | 387 | 3 | 3 | 3 | 116 | 101 | 0.003 |
| | 0440 | OWA | 2020104 | LV2 @ SKYBRIDGE | 9/100 | o833 | 1 | 338 | 5 | 5 | 5 | 1690 | 2/100 | Lo:062 |
| | C1441 | IWA. | 8504 | LV2 @ Bm 272 | 0/100 | 0900 | 1335 | 275 | 3 | 3 | 3 | 825 | 6/100 | 0.004 |
| | | | | | | | | | | | | <u>.</u> | - | |
| | | | | | | | | | | | | | | - |
| Recount S | ample# | NH33 | Recount | Vieo | | | ļ | | | | | | | |



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| Project Na | me: PIERCE | Coiles | E OLYM | PIC SOUTH ABATEMENT ! K | REPAIRS | | WEATH | ER/TEMP | • | Comme | nts: | | | |
|------------|---|-------------|----------|-----------------------------------|------------------|----------------------------------|----------------|---------------|-------------|-----------------|--------|--------------|------------|-----------|
| Project No | :40535 | 488 | | I.H. PETER STENSU | AND | | 1 | | | | | | | |
| Location: | LAKEWOO | D, WA | | SAMPLE MEDIA/ANALYTICA NIOSH 7400 | | : | | | | | | | | |
| Contracto | r. Dickso | ON | | | | | | | | | | | | |
| Client: | DES | | | | | | | , , | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TI | ME: | ANALYZEI | | 11/2 | AS | DATE/13/15/ | | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TI | ME: | ANALYZEI | D BY: | | \/_\ | DATE/ | | *** | | | |
| CODES: | ATE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | IWA INSIDE AREA OWA OUTSIDE AREA B BLANK DATE NUMBER CODE PUMP ACTIV LI LI LI LI LI LI LI LI LI | | | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | PRE | FLOW | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 3/14 | NUMBER ACTIVITY / PERSON 14 C1442 B - FIELD BLANK | | | | | | | | 1111 | | AVG | -> | %1∞0 | ~ |
| j | C1443 | B | ~ | FIELD BLANK - | | | - | | <u> </u> | | | | %00 | |
| | C1444 | H | 097 | ECE-EXHAUST I | %100 | 071) | 1323 | 372 | 2-1 | 2.1 | 2.1 | 781 | 0/100 | Ko.003 |
| | C1445 | H | 090 | W. STAIR-EXHAUST I | 0/100 | で 行3 | | 372 | 2.8 | 2.1 | 2-1 | 781 | - C | |
| | 01446 | H | 089 | (EXT) EXHAUST 1 @ 284 | 0/100 | 11, | 1326 | | 2,3 | | | | | 40,003 |
| | C1447 | OWA | 6113 | LV2, DLYN @ CONST. Wall | 0/100 | | 1328 | | 2.6 | | 1 | 965 | 1 3 5 7 | 10.003 |
| <u> </u> | C1448 | Н | HV30A | ROOF - NEG AIR OB | 0/100 | 0728 | 1331 | 363 | 5 | 5 | 5 | 1815 | | (0.00) |
| | C1449 | υω <u>A</u> | 207067 | LV2 @ SKYBRIDGE | 0/100 | 0757 | 130 | 304 | 5 | 5 | 5 | | 1_ / | 60.002 |
| 1 | C1450 | IV A | 8504 | LV2 @ Rm 272 | 0/100 | 0805 | 1244 | 279 | 5 | 5 | 5 | 1395 | 17/100 | 0.006 |
| -20 | C1451 | IWA | 208518 | LVI @ Bm142 | 0/100 | 0807 | 1242 | 275 | 3 | 3 | 3 | 825 | 12/100 | 0.067 |
| | | | | | | | | | | | | | | ļ <u></u> |
| | | | <u> </u> | | | | | | | | | | | |
| | | | | | <u> </u> | | <u> </u> | | | 7 | | | | <u></u> |
| | | | <u> </u> | | | | | | | | | | | |
| Recount S | ample # | C1450 | Recount | 19/150 | | | | | | | | | | <u> </u> |



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| Project Na | me: PIERC | E Cou | EGE 0 | LYMPIC SOUTH ABATEMENT | r 2 REPAIR |) | WEATH | ER/TEMP | : | Commo | ents: | | | |
|------------|--|-----------------|--|-----------------------------------|------------------|---------------------------------------|--------------|---------|----------|-----------------|--------|-------|-------------|--------|
| Project No | 40535 | . 488 | | I.H. PETER STENSLAN | 10 | · · · · · · · · · · · · · · · · · · · | 1 | | | | | | | |
| | LAKEWOOL | | ······································ | SAMPLE MEDIA/ANALYTIC | AL METHOD |); | 1 | | | | | | | |
| Contracto | . Dicks | ON | | 1V1UBH 7400 | | | | | | | | | | |
| Client: | DES | | ** | | | | | | | | | | | |
| RELINQUI | SHED BY (S | IGN.): | DATE/TI | ME: | ANALYZE | D BY: | FIH | AA | DATE/ | TIME: 6/22 | · | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TI | ME: | ANALYZE | D BY: | in the Kind | 177 | DATE/ | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | NC | 'LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | EIVED BY (SIGN.): DATE/TIL DES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMP 5/22 C1452 B - C1453 B - C1454 H 090 C1455 H 089 | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 3// | WA INSIDE AREA OWA OUTSIDE AREA SAMPLE CODE PUMP 12 C1452 B - C1453 B - C1454 H 090 C1455 H 089 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 3/15/22 | | " | | FIELD BLANK - | | | | | | | | 7 | 0/100 | |
| /_ | | 13 | <u> </u> | FIELD BLANK - | | | | | <u> </u> | ļ | | > | 0/100 | |
| | C1454 H 090 | | 090 | ECE - EXHAUST 2 | 0/100 | 0716 | 1347 | 391 | 2.1 | 2.1 | 2.1 | 821 | 1/100 | <0.003 |
| | C1455 | H | 089 | W. STAIR-EXHAUST2 | 0/100 | 8170 | 1348 | 390 | 2.3 | 2.3 | 2.3 | 897 | | 40.003 |
| | C1456 | H | 097 | (EXT) EXHAUST 2@284 | 0/100 | 0720 | 1 | 390 | 2,1 | 2.1 | 2.1 | 819 | | 60.003 |
| | C1457 | OWA | 6113 | LV2, OLY N. @CARST. Wall | 0/100 | 0723 | 1353 | 390 | 2.6 | 2.6 | 2.6 | 1014 | 2/100 | <6.003 |
| | C1458 | H | HV30A | FOOF - NEG AIR OLD | 0/100 | 0725 | 1356 | 391 | 5 | 5 | 5 | 1955 | 1.5% | 60,001 |
| | C1459 | IWA | 8504 | LV2@ Rm 242 | 0/100 | 0749 | 133ì | 342 | 3 | 3 | 3 | 1026 | 13/100 | 0.006 |
| | C1460 | IWA. | 208518 | W10 Rm 172 | 0/100 | 0754 | 1324 | 330 | 3 | 3 | 3 | 990 | 8/100 | 0.004 |
| | C1467 | οωΑ | 207067 | LV2@ SKYBRIDGE | 0/100 | 0858 | 1341 | 283 | 5 | 5 | 5 | 1415 | 3/100 | (0.002 |
| | C1462 | | | LV3-N. END OF SERVER PO | m 0/i00 | 1228 | 1400 | 92 | 10 | 10 | 1 | 920 | 24/100 | 0.013 |
| Y | C1463 | 06) A | | LV3-E SIDE OF FLOOR | 0/100 | 1231 | 1401 | 90 | 10 | 10 | | 900 | 1/100 | 40,003 |
| | | | | - <u> </u> | | | | | | | | | | |
| | | ~ | | | | | | | | | | | - | |
| <u></u> | | Ú _{OL} | | 0/ | | | | | | | | | | |
| Recount Sa | ample# | | Recount | 8/100 | | 1 | | | | | | | | |



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| Project Na | me: Pierce Co | ollege Ol | ympic Sout | h Abatement and Repair | | | WEATH | ER/TEMP: | | Comme | nts: | | | |
|-------------|--|---|------------|---|------------------|----------------------------------|---------|----------|----------|-------------------|--------|----------|---------------------------------------|--------|
| Project No | .: 40535.488 | | | LH FETER STENS | SINNID | | 1 | | | | | | | |
| Location: I | ockwood, W | A | | SAMPLE MEDIA/ANALYTICA | L METHOD | : NIOSH | | | | | | | | |
| Contracto | r: Dickson | | | 7400 | | | | | | | | | | |
| Client: DES | | | | | | | | | : | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | IE: | ANALYZEI | D BY: | ~// | 41 | DATE/T | ME: アノ2フ | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | E: | ANALYZE | D BV: | (N. X.) | J-3-7 | DATE/I | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA E SAMPLE NUMBER CODE PUM 22 C1463 B | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE E HEPA | AG ARI | ĒA | | |
| DATE | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 3/11/20 | OWA OUTSIDE AREA SAMPLE CODE PUMP NUMBER B C1464 B | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 716/22 | 1 | UMBER ODE FOMP ACTIVITY / PERSON 463 B - FIELD BLANK 1464 B - FIELD BLANK | | | | | | | | | | | 9/100 | |
| 1 | C1464 B | | | FIELD BLANK | | | | | | | | <u> </u> | %100 | |
| <i></i> | NUMBER 2 C1463 B - C1464 B - C1465 H 089 | | 1 | ECE - EXHAUST ? | 100 | 0724 | 1421 | 417 | 2.3 | 2.3 | 2.3 | 959 | 0/100 | 40.003 |
| / | C1466 | 14 | 097 | W. STAIR EXHAUST 3 | 0/100 | 0727 | 12122 | 415 | 2-1 | 2.1 | 2.] | 872 | 9/100 | 60,003 |
| | C1467 | N | 090 | (EXT) EXHAUST 30 284 | 0/100 | 673) | 1423 | 412 | 2-1 | 2-1 | 2. | 865 | 4 / | <0.003 |
| | C1468 | H_ | HY30A | ROOF - NEG AIR 07 | 9/100 | 6739 | 1428 | 409 | 5 | 5 | 5 | 2045 | 0/100 | 40.001 |
| | C1469 | ဗယA | HV19-9 | LEV 3 ESDE OF FLOOR | 0/100 | 0749 | 1432 | 403 | 5 | 5 | 5 | 2015 | | 40.00 |
| | C1470 | | 37A | LY3 NISIDE SERV. RM | 0/100 | 6751 | 143= | 402 | 5 | 5 | h | 1010 | | 500,0 |
| | C1471 | οωA | 6113 | OLY N LV2 CONST. DOOD | | 0755 | 1425 | 390 | 2.4 | 2.6 | 2.4 | 1014 | 2/100 | 10.003 |
| | C1472 | οωΑ | 1 | LV2 @ 5KYBRIDGE | 1 - 3 / | 0758 | 1485 | 397 | 5 | 5 | 5 | 1985 | 4/100 | So.001 |
| | C1473 | 1 . | 10040 | . , | 0/100 | 0804 | 1004 | | 10 | 10 | 10 | 1200 | | 0.002 |
| | C1474 | 1 | | Lv2 € Rm272 | 0/100 | 0808 | 1301 | 293 | 3 | 3 | 3 | 879 | 13.7 | 0.006 |
| _ \1 | C1475 | TAA | | Lv1 e Rm 172 | 0/100 | | 1302 | 292 | 3 | 3 | 3 | 876 | 9/ler | |
| | C1474 | 1 | | LVZ@ CLEAN ROW | (C) / | 0909 | | 298 | 5 | 5 | 5 | 1490 | 6/100 | |
| | C1477 | | | 3 LVI MECH RA | 0/100 | 1024 | 1225 | 121 | 10 | 10 | 10 | 1210 | , , , , , , , , , , , , , , , , , , , | 40.002 |
| Recount S | | | | 5/100 | 1 | | | /~ | 1 | | | .20,0 | 7710 | |



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| Project Na | me: Pierce Co | llege Ol | ympic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP | | Comme | nts: | - | <u>, , , , , , , , , , , , , , , , , , , </u> | · · · · · · · · · · · · · · · · · · · |
|--|--|----------|----------------|---|---------------------|---------------------------------|--|---------|----------|-----------------|--------|--|---|---------------------------------------|
| Project No | .: 40535.488 | | | I.H. PETER STENSLAND |) | | 1 | | | | | | | |
| Location: 1 | akewood, W | Ą | | SAMPLE MEDIA/ANALYTICAL METHO | OD: | | 1 | | | | | | | |
| Contracto | r: Dickson | | | NiOSH 7400 | | | | | | | | | | |
| Client: DES | 5 | | | | • | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | 1E: | ANALYZEI MIKE SA | D BY: | 16 | ALA | DATE/ | IME: 7/28 | 2 | TWA: | _ | |
| RECEIVED | BY (SiGN.): | | DATE/TIM | 1E: | ANALYZE | | | 770 | DATE/1 | | | 1 | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER 7/22 C1478 3 - | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | ON | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER 7/22 C1478 13 C1479 13 | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 3/14/00 | IWA INSIDE AREA OWA OUTSIDE AREA TE SAMPLE NUMBER 1/22 C1478 B - 1 C1479 B - 1 C1480 H 090 | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 71722 | NUMBER CODE POMP 2 C1478 B - C1479 B - | | | FIELD BLANK | | | | | | | | -> | 0/100 | |
| /- | C1479 13 | | man | FIELD BLANK | 0/ | 706 | 12100 | :1. \ | | - 1 | | | 0/100 | |
| | 2 C1478 B - C1479 B - | | ' ' | (EXT) EXHAUST 1 @ RM 283 | 9/100 | 0736 | 1420 | | 2-1 | 2-1 | 2-1 | 848 | 0/100 | |
| | | 17 | , | ECE-EXHAUST 4 | 0/100 | 0801 | 1421 | 380 | 2.3 | 2-3 | 2.3 | ' ' / | 7100 | <0.003 |
| | C1482 | <u> </u> | 097 | (EXT) EXHAUST 4 @ 284 | 100 | 0803 | | 380 | 2,1 | 2.1 | 2.1 | 798 | | |
| | | | | LV2, DLYN-@ CONST. Wall | 1207 | 0805 | | | 2.60 | 2.60 | | 950 | 100 | 60.003 |
| | | | | LV3 -E. SIDE OF FLOOR | 7100 | 0814 | 1432 | | 5 | 5 | 5 | 1890 | 2/100 | K0.001 |
| | C1485 | | | LV3 N SIDE OF SERVER RM | 9100 | 0816 | 1433 | 377 | 5 | 5 | 5 | 1885 | 22/100 | 0.006 |
| | C1486 | 14 | HV30A | ROOF - NEG AIR 08 | 9100 | 811 | 1429 | 378 | 5 | 5 | 5 | 1890 | 0/100 | 20.001 |
| | C1487 | OWA | 207067 | LV2 @ SKYBRIDGE | 9/100 | 0852 | 1407 | 315 | 5 | 5 | 5 | 1575 | 6/100 | 0.002 |
| | C1488 | TWA | 8504 | LV2 @ Picem 272 | %100 | 0857 | 1345 | 288 | 5 | 5 | 5 | 1440 | 13/100 | 6.004 |
| __ | C1489 | IWA | 208518 | LVI@ROOM 172 | 100 | 0859 | 1416 | 317 | 3 | 3 | 3 | 951 | 10/100 | 0.005 |
| 7 | C1490 | oω A | 70 | LVI @ CLEAN ROOM | 9/100 | 0930 | 1412 | 282 | 5 | 5 | 5 | 1416 | 1/100 | <0.062 |
| | | | | | <u> </u> | | <u> </u> | | | | | | | K |
| | | 1 | | | | | | | | | | | | |
| Recount S | ample # | CHO | Recount | 7/100 | | | | | | | | | | |



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pbsusa.com

| Project Na | oject Name: Pierce College Olympic S oject No.: 40535.488 | | | th Abatement and Repairs | | | WEATH: | ER/TEMP: | : | Comme | nts: | | | |
|--|--|------------------|------------|---|---------------------|----------------------------------|--------|----------|----------|-----------------|---------|-------|-------|---------------|
| Project No | o.: 40535.488 | | | LH. PETER STENSLAN | עו | | | | | | | | | |
| Location: | Lakewood, WA | A | | SAMPLE MEDIA/ANALYTICAL MET | | | 1 | | | | | | | |
| Contracto | r. Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | S | | | | | | | _ | | | | | | |
| RELINQUI | ISHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZED MIKE SI | | 116 | M | DATE/T | | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZEC |) BY: "/ | | | DATE/T | | | | | |
| CODES: | S: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA FE SAMPLE CODE PUM DE CI491 B C1492 B | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANG | N | LE | GBA H | GLOVE E HEPA | SAG ARE | Ā | | |
| DATE | ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUME C1491 B C1493 B C1494 H O80 | | | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 3/11/2 | OWA OUTSIDE AREA E SAMPLE CODE PUME 2 CI497 B C1492 B | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | cc |
| 718/2 | 10149 | | | FIELD BLANK | | | | | | | | | %00 | |
| - | | | 000 | FIELD BLANK | A 2 | -300 | | 500 | | | | | 0/100 | 1 |
| | - | | 087 | (EXT) EXHAUST 2 @ 283 | 6/100 | | 1358 | | 2.3 | 2.3 | 2.3 | | 1/100 | ८०.००८ |
| | | • • |] | ECE-EXHAUST 5 | 0/100 | | 1359 | | 7-) | 2.1 | 2.) | | | 40,003 |
| | C1495 | 1 | | OLY N. LV2 O CONST. LOCAL | I 🐔 . | 0735 | | | 2-6 | 2.6 | 26 | | | 40.003 |
| - | C1496 | | , , | ROOF - NEG AIR OLD | | 0741 | 1407 | | 5 | 5 | 5 | | | 40.003 |
| | 61497 | | 97 | LN3 E SIDE OF FLOOR | | 0746 | | | 5 | 5_ | | 1950 | 2/100 | <0.003 |
| | C1498 | | | LV2 @ SKYBRIDGE | 1100 | 0748 | 1413 | 385 | 3_ | 3 | 3 | 1155 | 1/100 | < <u>0.∞3</u> |
| + | C1499 | | HV19-9 | W.STAIR - EXHAUST 4 | 0/100 | 0753 | 1901 | 368 | 2.] | 2.1 | 2.) | 773 | | K0-003 |
| - 1 | C 1500 | 0ωA | 70 | LVI @ CLEAN ROOM | 0/100 | 0802 | 1355 | 353 | 5 | 5 | 5 | 1765 | 7/100 | 0.002 |
| <u> </u> | | | <u> </u> | | | | | | | | | | | |
| | | _ | <u> </u> | | | | | | | | | | | |
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| | | | <u> </u> ' | | | | | | | | | | | |
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| Recount Sa | ample# | 1515U | Recount | Ce/1010 | | | | | | | . 1 | 1 | | |



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| Project Na | me: Pierce Co | ollege Ol | ympic Sout | h Abatement and Repairs | | | WEATH | ER/TEMP: | : | Comme | nts: | • | | |
|-------------|--|-----------|------------|---|--------------------|----------------------------------|-------------|---------------|----------|-----------------|---------|--------------|------------|----------------|
| Project No | o.: 40535.488 | | | I.H. PETER STENSLAN | o D | | 1 | | | | | | | |
| Location: I | akewood, W | A | | SAMPLE MEDIA/ANALYTICAL ME | THOD: | | 1 | | | | | | | |
| Contracto | r. Dickson | • | | NIOSH 7400 | | | | • | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQUI | ISHED BY (SI | GN.): | DATE/TIN | 1E: | ANALYZEI WIKE S | | Juhn & | 4 | DATE/1 | IME: 22/2 | 2 | TWA: | <u> </u> | **** |
| RECEIVED | BY (SIGN.): | | DATE/TIN | 1E: | ANALYZE | | | | DATE/1 | TIME: | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMI 22 C1501 B | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG ARI | EA . | | |
| DATE | IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUME CODE PU | | | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | FLOW POST | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 3/2/197 | | B | _ | FIELD BLANK | AVG | OIV | OFF | I HAIE | FRE | POSI | AVG | VOL | 4.7 | - 60 |
| 12.120 | 1 | | _ | FIELD BLANK | | | | | | | | | 0/100 | |
| /- | | | 6113 | ON N. LVZ @ CONST. Wall | 15/100 | 0701 | 1420 | 430 | 2.6 | 2.6 | 2-6 | 1441 | 3/100 | <0.002 |
| | C1504 | TWA | 8509 | LV2 @ Rm 272 | 15/100 | 07/2 | 1407 | | 3 | 3 | 3 | 1245 | 6/100 | <0.003 |
| | C1505 | H | HV30 A | ROOF - NEG AIR 07 | 1.6/ | 07/2 | 1423 | | 5 | 5 | 5 | 2155 | 1/100 | 40.001 |
| | C1506 | H | 089 | W. STAIR - EXHAUST 04 | .5/100 | 0715 | 1415 | | 2-2 | 2.2 | 2.2 | 924 | 0/100 | <u>ده، میڅ</u> |
| | C1503 | 1-1 | 097 | ECE - EXHAUST I | 15/100 | 0719 | 1413 | 414 | 2.2 | 2-2 | 2.2 | | 0/100 | <0.003 |
| | C150.8 | | 70 | LVI - CLEAN ROOM | 15/100 | 0722 | 1410 | 408 | 5 | 5 | 5 | 2040 | 4/100 | 40,001 |
| | C1509 | oωA | 207067 | LV 2 @ SKYBRIDGE | 15/100 | 0724 | 1409 | 405 | 5 | 5 | 5 | 2025 | 3/100 | (0,001 |
| * | C1510 | TWA | 208918 | IVI ESCAN AREA | 15/100 | 0903 | 1409 | 300 | 8 | 8 | 8 | 2448 | 13/100 | 6.003 |
| | C1511 | H | 090 | (EX-) EXMONST 4 @ 28 3 | 5/100 | 0915 | 1411 | 2960 | 2 | 2 | 2 | 592 | 3/100 | 40.005 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Recount S | l ample # | U507 | Recount | 6/100 | | | | | | | | | | |



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| o.: 40535.488 | | | I.H. PETER STENSIAND | | | 1 | | | | | | | |
| Lakewood, W | A | `~ | SAMPLE MEDIA/ANALYTICAL METHO | D: | | 1 | | | | | | | |
| r. Dickson | | | NIOSH 7400 | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| ISHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZE | BY: | | | DATE/1 | TIME: | | TWA: | ········· | · · · · · · · · · · · · · · · · · · · |
| BY (SIGN.): | | DATE/Tin | ΛE: | ANALYZEI | BY: | | | DATE/1 | ГІМЕ: | | | | |
| IWA INSID | E AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | EXCURSIO | N | LE_ | GBA H | GLOVE I HEPA | BAG AR | I EA | | |
| SAMPLE NUMBER | CODE | РИМР | LOCATION ACTIVITY / PERSON | BLANK | TIME | TIME | TOTAL | DDE | FLOW | LAVC | TOTAL | FIB | FIB |
| | 12 | S | ACTIVITYTERSON | AVG | ON | OFF | TIVE | PRE | POSI | AVG | <u> </u> | | СС |
| | | | | | | | | | | | | | |
| | | HVRAD | ROOF - NEGOTION OR AS | 0/100 | 6717 | IIIa I | 410 | 5- | | - | 20512 | 0/100 | Ko.001 |
| | | t i | | | | | | | | | | 1 4 / | (0.00) |
| C1516 | | | • | | | | | 1 | | | | | · · · · · · · · · · · · · · · · · · · |
| C1517 | î+ | 097 | | | | | | | | | | 0/100 | (n.002 |
| C1518 | C | HV18-3 | | | i '_ | | | G | 10 | 10 | | 5/100 | 0.002 |
| C1519 | H | | | 0/100 | 0732 | 1355 | 383 | 2 | 2 | 2 | 766 | | K0.004 |
| C1520 | H | 089 | ECE - EXHAUST 2 | | | | 398 | 1.8 | 1.8 | 1.8 | 716 | 1 . | ' |
| | | | LVI @ CLEAN ROOM | 0/100 | 6739 | 1350 | 371 | 5 | 5 | 5 | 1855 | 6/.00 | 0.002 |
| C1522 | INA | 2564 | LV 2 OUTSIDE OF 283/284 | 0/100 | 0751 | 1204 | 253 | 5 | 5 | 5 | 1265 | 15.5/10 | 0.000 |
| C1523 | Awa | § 20 € | OUTSIDE OF ECE | %00 | o738 | 1353 | 375 | 5 | 5 | 5 | 1875 | 3/100 | (0.00) |
| | | | | | | | | | | | | | |
| | , H | | | | | | | - | | | | | |
| ample# | O.S., | Recount | %00 | | | | | | | | | | |
| | CISIA | Lakewood, WA T: Dickson SISHED BY (SIGN.): P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA C1512 13 C1514 H C1515 0WA C1517 14 C1518 C C1519 H C1520 H C1521 GWA C1522 TUA C1523 OWA | Lakewood, WA Tr. Dickson SISHED BY (SIGN.): DATE/TIM BY (SIGN.): DATE/TIM BY (SIGN.): DATE/TIM BY (SIGN.): DATE/TIM BY (SIGN.): DATE/TIM BY (SIGN.): DATE/TIM BY (SIGN.): DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM C DATE/TIM DATE | Lakewood, WA I. Dickson SAMPLE MEDIA/ANALYTICAL METHO NIOSH 7400 SAMPLE MEDIA/ANALYTICAL METHO NIOSH 7400 SAMPLE MEDIA/ANALYTICAL METHO NIOSH 7400 SAMPLE DATE/TIME: P PERSONAL C CLEARANCE A AMBIENT AIR OWA OUTSIDE AREA B BLANK SAMPLE NUMBER CODE PUMP ACTIVITY / PERSON C 15 12 B C 15 13 B C 15 14 H HV30A ROOF - NEGATIVE AIR 08 C 15 15 OWA 8297 1-2 C SKYBRIDGE C 15 16 OWA C 15 17 IH C 15 17 IH C 15 18 C HV 18 38 LV 1 - Temp PWR ENCIOSURE C 15 20 H C 15 20 H C 15 21 OWA C 15 22 TWA C 15 23 OWA S 20 OWTSIDE OF ECE | LH. PETER STENSLAND SAMPLE MEDIA/ANALYTICAL METHOD: NIOSH 7400 SINED BY (SIGN.): DATE/TIME: P PERSONAL INA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA B BLANK SAMPLE NUMBER CODE NUMBER CISTA CISTA B HV30A CISTA C | I.H. | Lith PETER STENSIAND SAMPLE MEDIA/ANALYTICAL METHOD: NIOSH 7400 | Lih. | L.H. FETER STENSLAND SAMPLE MEDIA/ANALYTICAL METHOD: NIOSH 7400 | LH. | LH. | Life Fee Code C | LH. PETEL STEADLD SAMPLE MEDIA/ANALYTICAL METHOD: NIOSH 7400 |



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| Project Na | me: Pierce Co | ollege Ol | ympic Sout | th Abatement and Repairs | • | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|-------------|--|---------------|--------------|-----------------------------------|-------------------------|---------------------------------|--------------|---------|--------------|--------------|--------|-------|----------|--------|
| Project No | .: 40535.488 | | | I.H. PETER STENSLAN | /D | | | | | | | | | |
| Location: L | akewood, W | A | | SAMPLE MEDIA/ANALYTICAL METH | | | 1 | | | | | | | |
| Contractor | : Dickson | | | NIOSH 7400 | | | ļ | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIN | VIE: | ANALYZEI MIKE Sin iz | BY: | 1 D | | DATE/I | TIME: | _ | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ME: | ANALYZE | р/вү:/ | V | · · · | DATE/ | | | 1 | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA DATE SAMPLE NUMBER CODE F C1525 B C1525 B | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE I | BAG AR | EA | | |
| DATE | | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 3/ 1 | | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 123/22 | C1524 | <u>B</u> | _ | FIELD BLANK | | | | | | | | | 100 | |
| | C1525 | B_{-} | - | FIELD BLANK | | | | | | | | | 0/100 | |
| L/_ | C1526 | H | Hr30A | ROOF- NEGAIR OB | 100 | 0700 | 1425 | 445 | 5 | 5 | 5 | 2,225 | 2/100 | (0.00[|
| | C1527 | OUA | 6113 | OLYN: LUL @ CONST WALL | 0/100 | 0713 | 1422 | 429 | 2-10 | 2.6 | 2.6 | 1115 | 2/100 | <0.003 |
| | C1528 | OWA | 8297 | LY2 @ SKYBRIDGE | 0/100 | 0715 | 1410 | 415 | 5 | 5 | 5 | 2075 | 100 | (0.00) |
| | C1529 | \mathcal{H} | 097 | W. STAIR-EXHAUST 2 | 0/100 | 0718 | 1420 | 422 | 1 | 2 | 2 | 844 | 0/100 | 40,003 |
| | 01530 | <i>I+</i> | 089 | ECE - EXHAUST 3 | 0/100 | 6721 | 1418 | 417 | 1.8 | 1.8 | 1.8 | 751 | 0/100 | II . |
| | C1531 | OWA | 8298 | OUTSIDE OF ECEBY PLAYGION | 100/100 | 0722 | 1417 | 415 | 5 | 5 | 5 | 2075 | 1100 | (0000) |
| Ì | C1532 | 14 | | (EXT) EXHAUST 3@ 283 | | 0727 | 1415 | 408 | 2 | 2 | 2 | 816 | 1/100 | 40,003 |
| | C1533 | 000 | | OUTSIDE OF SKYBRIDE CONTA | 1 | 0732 | - | | 5 | VOID | - To | ω€Y2 | OFF | |
| 7 | C1534 | | 8501 | LV2@ Rms 283/284 ENTR | | 0734 | 1224 | 290 | 5 | 5 | 5 | | | 0.014 |
| | | | | | <u>'</u> | <u> </u> | <u> </u> | | | | | | | |
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| | 1 | 124 | Recount | 44,5/100 | | | - | - | <u> </u> | | | - | <u></u> | |
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|--|--|-------------|-----------|---|-----------------------|---------------------------------|----------|---------|----------|-----------------|----------|-------------|--------------|----------------|
| Project No | .: 40535.488 | | | I.H. PETER STENSLAND | | | 1 | | | | | | | |
| Location: L | akewood, W | Ą | | SAMPLE MEDIA/ANALYTICAL METHO | D: | | | | | | | | | |
| Contractor | : Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | <u> </u> | | | | | | | | | | | | | |
| | SHED BY (SI | GN.): | DATE/TI | AE: | ANALYZEI MIKE SM I | | []d | 1 | DATE/I | IME: | | TWA: | <u> </u> | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | ΛE: | ANALYZEI | BY: | <u> </u> | | DATE/1 | · | | | | |
| CODES: | IS: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA TE SAMPLE NUMBER CODE PUM 22 C1535 B - C C1536 B - | | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG ARI | EA | | |
| DATE | | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 3/24/22 | | B | _ | | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD (D.C. | cc |
| 1242 | | | <u> </u> | FIELD BLANK - | | | | | | | <u> </u> | | 0/60 | |
| | C1536 | | - | FIELD BLANK | 01- | | | | | | <u> </u> | > | 0/100 | |
| l/ | | | | OLYN, LUZ @ CONST Wall | | 0700 | | | 2.6 | 2.6 | 2.6 | | 7 / | <0.∞3 |
| | C1538 CIS39 | | 8297 | OUTSIDE SKYTENINGE | | 0702 | | | 5 | 5 | 5 | ľ | | 50.001 |
| | | H | 029 | W. STAIR - EXHAUST I | | 070lo | | | 2.2 | 2.2 | 2.2 | 902 | | K0.003 |
| | C1540 | | 097 | ECE-EXHAUST 4 | 0/100 | 0710 | 1355 | 405 | 2.1 | 2.1 | 2-1 | 85 1 | 0/100 | ₹0,003 |
| | C1541 | OWA_ | 8298 | OUTSIDE OF ELE NEAR PLAYGRAN | 00/100 | 0712 | 1353 | 41) | 5 | 5 | 5 | 2055 | | <0.∞1 |
| - \ | C1542 | H | 090 | (EXT) EXHAUST 1 @ 283 | 0/100 | 0715 | 1414 | 409 | 2.5 | 2.2 | 2.2 | 900 | 3/100 | 6.003 |
| | C1543 | IWA | 8504 | LVA HALL OUTSIDE OF 283/284 | 0/100 | 0734 | 1301 | 327 | 5 | 5 | 5 | 1635 | 22/100 | 6.007 |
| | C1544 | οωΑ | HY19-19 | LV3 - OUTSIDE N. OF WOLK | %100 | 0739 | 1346 | 367 | 5 | 5 | 5 | 1835 | | (0,00l |
| | C1545 | OWA | 207067 | LI, @ SKYBRIDGE | 9/100 | 0744 | 1344 | 360 | 5 | 5 | 5 | 1800 | | 0.003 |
| | C1546 | J | HV18-38 | • | 0/100 | 1021 | 1221 | 120 | 10 | 10 | 10 | 1200 | 2/100 | |
| | C1547 | Ć, | 1696 | , N S. SKYBRIDGE CONTAIN. | 2,00 | 1200 | 1406 | 126 | 10 | 10 | 10 | 1260 | | 40.00 |
| W | C1548 | H | HV30A | | 0/100 | 0655 | 1406 | | 5 | 5 | | 2155 | 0/100 | ⟨ <i>a</i> ,∞/ |
| | | | | | | | | | | | | | | , |
| Recount Sa | imple# | USUL | Recount | 400 | | | | | | | | | | |



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|------------|----------------------------------|-------------|-----------|---|-------------------|----------------------------------|----------|---|-----------------|-----------------|--------|-------|----------|--------|
| Project N | o.: 40535.488 | | | I.H. PETER STENSLAND | | | | | | | | | | |
| Location: | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICAL METHO | D: | ····· | 1 | | | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DE | S | | · · · · | | | | | | | | | | | |
| | ISHED BY (SI | GN.): | DATE/TIN | ΛE: | ANALYZEI MIKES | D BY: | 1.195 | 41 | DATE/1 3/28/ | TIME: タみ | | TWA: | | |
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| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FiB |
| 3/ / | NUMBER | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 3/25/22 | C1549 | В | | FIELD BLANK | | | | | | | | | 1/100 | _ |
| | C1550 | B | | FIELD BLANK | | | | | - | | | حـ | 1/100 | |
| | CISSI | σωA | 207067 | LV2 @ SKYBRIDGE | 1/100 | 0645 | 1345 | 420 | 5 | 5 | 5 | 2100 | 2.5/00 | 40.00l |
| <u> </u> | C1552 | o WA | HV19-9 | LV3 - E OF CONTAINMENT | 1/100 | 0647 | 1410 | 443 | 5 | 5 | 5 | 2215 | 4/100 | ⟨0.∞١ |
| L/ | C1553 | H | HV36A | ROOF NEG AIR OB | 1/100 | 0057 | 1405 | 428 | 5 | 5 | 5 | 2140 | .5/100 | 40.001 |
| Ц | C1554 | owA | 6113 | LV2 BY CONST. Wall | 1/100 | 0701 | 1402 | 421 | 2.8 | 2.8 | 2.8 | 1179 | | 10.002 |
| | c1555 | 1+ | 097 | W. STAIR- EXHAUST 2 | 1 . / | 0705 | 1357 | 406 | 2.2 | 2-2 | | | 1/100 | Ko.003 |
| | C1556 | H | 089 | (EXT) EXHAUST 1 @ 284 | 1/100 | 0707 | | 412 | 2.2 | 2.2 | 2.2 | 906 | 1/100 | 40.003 |
| 1 | 1557 | 1-4 | 690 | ECE - EXHAUST I | 1/100 | 0710 | 1357 | 407 | 2 | 2 | 2 | छ।५ | 2/100 | 40.003 |
| | C1558 | OWA | 8298 | OUTSIDE OF ECE NEAR PLAYSYOUND | 1/100 | 0712 | 1356 | 41.04 | 5 | 5 | 5 | | 7/ | 40.00l |
| | C1559 | IW A | 8504 | LV2 - OUTSIDE OF 283/284 | 1/100 | 0736 | | | 5 | 5 | 5 | | | 0.002 |
| 4 | C1560 | IWA | ОУчоі | LV3 - IN SERVED AREA | 1/100 | ందికర | | 351 | 5 | 5 | 5 | v755 | 30/100 | 0.006 |
| | | | | | ļ | | <u></u> | | | | | | | |
| | | | | | <u> </u> | | <u> </u> | | | | | | | |
| Dane : C | | .2501 | | 8/ | | | | - · · · · · · · · · · · · · · · · · · · | - | | | | <u> </u> | |
| Recount S | ampie # | <u>ς</u> λ' | Recount | 8/190 | | | <u> </u> | | | | | [| L | |



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|-------------|------------------------------------|-------------|------------|-----------------------------------|------------------|---------------------------------|-------|-----------|----------------|-----------------|--------|-------|--------|--------|
| Project No | .: 40535,488 | | | I.H. PETER STENSLAN | σĎ | | | | | | | | | |
| Location: I | akewood, W | A | | SAMPLE MEDIA/ANALYTICAL METHO | D: | | | | | | | | | |
| Contractor | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.); | DATE/TIN | ΛE: | ANALYZED MIKE | D BY: | Jo D | And 1 | DATE/1 3/29 | TIME: | | TWA: | | |
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| CODES: | IWA INSIDE AREA OWA OUTSIDE ARE | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FiB |
| 3601 | | | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 12/22 | C1561 | B_{\perp} | ~ — | FIELD BLANK | | | | | | | | 7 | 0/100 | |
| | | 3 | | FIELD BLANK | | | | | | | | > | 0/100 | |
| | 1 C1562 B - 1 C1563 H 09C | | | (EXT) EXHAUST I @ 283 | 0/100 | 0.700 | 1419 | 439 | 2.1 | 2.1 | 2.1 | 922 | | 60.003 |
| | C1564 | 14 | 097 | ECE - EXHAUST 1 | | 0702 | T | , | 2.1 | 2.1 | 2.1 | 922 | 3 Z | Ko.003 |
| | C1565 | H | 089 | (EXT) EXHAUST 1 0294 | %00 | 0704 | 1 | 439 | 2.2 | | 7.2 | _ | c/100 | ₹0.003 |
| | C1566 | OUA | 311ع | LV2, OLY D @ CONST. Wall | %00 | 0700 | 1425 | 439 | 2.5 | 2.5 | 2.5 | | | Lo.003 |
| | C1567 | TWA | 37A | LV3 NEND OF SERVER RM | 1 - 3 | 0715 | 1433 | 438 | 5 | 5 | 5 | | 4/100 | (0.00) |
| | C1568 | H | HV3AA | DOOF-NEG AIR 06 | 0/100 | 07160 | 1424 | | 5 | 5 | 5 | | | (0,001 |
| | C1569 | IWA | | 4N2 HALL @ 283/284 | %100 | 0724 | 1352 | | 5 | 5 | 5 | 1940 | 1 /3 / | 0.002 |
| | C1540 | 6WA | 207067 | LV2 @ SKYBRIDGE | %00 | | 1434 | | 5 | 5 | 5 | 2145 | : / | 40.001 |
| N N | | | HV9-9 | | 0/100 | 0714 | | 438 | 5 | 5 | 5 | 2190 | 37 | (0.00) |
| | | | | | | | | | | | | | | |
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| | | 102 | | | | | | | | | | | | |
| Recount Sa | ample # | 1.4 | Recount | \$\ig0 | | | | | | | | | | |
| | | | | | | | | | | | | | | |



214 E GALER STREET, SUITE 300 SEATTLE, WA 98102 206.233,939

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| Project Na | roject Name: Pierce College Olympic S roject No.: 40535.488 | | | th Abatement and Repairs | | | WEATH | IER/TEMP | : | Comme | ents: | | | |
|--|--|-----------------|---|---|----------------------|---------------------------------|-------|--|----------|---------|-------------|------------------|----------|--|
| Project No | o.: 40535.488 | | - | I.H. PETER STENSLAN | 7 | | | | | | | | | |
| Location: I | akewood, W | A | | SAMPLE MEDIA/ANALYTICAL METHO | D: | | 1 | | | | | | | |
| Contracto | r: Dickson | · | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | 5 | | | · | | | | | | | | | | |
| RELINQUI | ISHED BY (SI | GN.): | DATE/TII | ME: | ANALYZEI Mike-Smi | | 12 | 14 | DATE/ | TIME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TI | ME: | ANALYZE | BY: 6 | | | DATE/ | | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUME | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE I | BAG AR | EA | | |
| DATE | 1 . | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 3/29/12 | | B | | | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| 101/1 | | | | FIELD BLANK | | | | | | | | -> | 100 | - |
| | C1574 | | tlv30A | FIELD BLANK | 0/100 | a ⁷ 7-2 | (0) | 438 | 5 | | | 2190 | 0/100 | |
| | C1575 | | T | ROOF - NEG AIR 07 | | 0703 | 1 | | | 5 | 5 | <u> </u> | | K0.001 |
| | C1576 | | 097 | OLYN., LV2 @ CONST. DOOR | 0/100 | 0708 | 1417 | 429 | 2.6 | | 2.6 | | | LO.003 |
| | C1577 | Н | | W. STAIRS - EXHAUST 2 (EXT) EXHAUST 2 @ 284 | 0/100 | 0715 | 1414 | | 2 | 2 | | 838 | 1/100 | 40.003 |
| | C1578 | | 089 | | %00 | 0717 | 1415 | | 1.8 | 1.8 | 1.8 | 352 | | 40.004 |
| | C1579 | | 8298 | ECE TEXHAUST 2 | 0/100 | 0719 | 1413 | 414 | 2.2 | 2.2 | 2.2 | | 1 | 40.003 |
| | C1580 | | | NEAR PLAYGROWNO BY ECE LV2 SKYBTI GEOCHANGE ROOM | %100 | | 143) | 427 | 5 | 5 | _ | VOID | CAPIO | T |
| | CISRI | 1 | 37A | LV3 SERVER AREA | 0/100 | 0728 | 1432 | | 5 | 5 | 5 | 2135 | | <0.003 |
| Y | C1582 | | 8504 | LV2 HALL @ 283/284 | 0/100 | 0740 | | 1 | 5 | 5 | 5 | 2065 | | 0.005 |
| , | | | HV19-9 | LV3 E OF SERVER AREA | 0/100 | | | 1 | 5 | 5 | | 1265 | 103/ | 0.001 |
| | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | C OF SCHOOL PIRED | 7100 | 0634 | 1761 | 770 | 3 | 3 | | 22.00 | /100 | 0.001 |
| | | | , | | | | | | | | | | | |
| | | | | | | | | <u> </u> | | | | | <u> </u> | |
| Recount Sa | ample # | 05 ⁵ | Recount | 12/100 | | | | | | | | - | | |



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| Project Na | ame: Pierce Co | ollege Ol | lympic Sou | th Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | ents: | | | |
|--|--|-------------|------------|--|------------------|-----------------------|-------|------------|----------|-----------------|----------|-----------------|----------|----------------|
| Project No | o.: 40535.488 | | ::: | I.H. PETER STENSLAN | <u> </u> | | | | | | | | | |
| Location: | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICAL N | METHOD: | | 1 | | | | | | | |
| Contracto | r. Dickson | ···· | *** | NIOSH 7400 | | | | | | | | | | |
| Client: DE: | S | | | | | | | | | | | | | |
| | ISHED BY (SI | | DATE/TI | ΛΕ: | ANALYZE MIKES | D BY: | [] B | | DATE/ | | | TWA: | | |
| RECEIVED | BY (SiGN.): | | DATE/TI | ΛE: | ANALYZE | о ву: // | | ** | DATE/ | | | 1 | | |
| CODES: | ODES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AR COD NUMBER C1585 B C1585 B | | A | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | <u> </u> | - |
| DATE | | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FiB |
| 3/2 62 | | - PA | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | СС |
| KD/KZ | | | _ | FIELD BLANK | | | | | | | <u> </u> | <u>-</u> > | 100 | |
| | | | <u> </u> | FIELD BLANK | 657 | | | | | | | > | 1100 | |
| -/ | | | | Li2 SYKBridge-Change RA | | 0645 | 1417 | | 5 | 5 | 5 | 2280 | 1/100 | (0.∞1 |
| H | | | HV19-9 | LV3 - NEAR SERVER AR | EA /100 | 0648 | 1421 | | 5 | 5 | 5 | 2265 | 5/100 | 100.0 |
| H | C1588 | | 37A | LV3 SERVER CONTAINME | NT '5/100 | 0650 | 1143 | 293 | 5 | 5 | 5 | 1465 | 3/100 | KO:002 |
| | C1589 | , | HV30A | ROOF-NEG AIR-08 | °5/100 | 0654 | 1430 | 456 | S | 5 | 5 | 2280 | 0/100 | K0.001 |
| | | σωΑ | | OLYN, LY2 @ CONST. DOC | | 0657 | 1427 | 450 | 2.4 | 2.4 | 2.4 | 1080 | 1100 | (0.003 |
| | C1591 | <u>H</u> | 089 | W. STAIRS - EXHAUST . 3 | -5/100 | <u>0707</u> | 1425 | <u>438</u> | 2.3 | 2.3 | 2.3 | 1007 | 0/100 | <0.003 |
| | C1592 | + | 097 | ECE-EXHAUST 3 | 15/100 | 0725 | 1425 | | 2 | 2 | 2 | 840 | 11/ | (o.co3 |
| \ . | C1593 | 4 | | (EXT) EXHAUST 2@283 | | | 1423 | | 2 | 2 | 2 | 860 | 1/100 | (0,003 |
| | C1594 | IMA | 8504 | LV2 HALL@ 283/284 | <u>°³/i00</u> | 0739 | 1412 | 393 | 5 | 5 | 5 | 1965 | 8/100 | 0.002 |
| | | | | And the second s | | | j | | | | | | | |
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| Recount Sa | imple# | C1587 | Recount | 6/100 | | | | | · | | | | | |
| | · | <u> </u> | | | | | | | | l | | | | |



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| Project i | Name: Pierce C | ollege O | lympic Sou | th Abatement and Repairs | | | WEATH | IER/TEMP | : | Comme | nts: | | | |
|-----------|--|----------|------------|-----------------------------------|------------------|----------------------------------|----------|---------------|----------|-----------------|-------------|-------------|----------------------|------------------|
| Project | No.: 40535.488 | | | I.H. Cameron Bunnick | 0 | | 1 | | | | | | | |
| Location | : Lakewood, W | 'A | | SAMPLE MEDIA/ANALYTICAL METH | OD: | | 1 | | | | | | | |
| Contrac | or: Dickson | | | NIOSH 7400 | | | | | | İ | | | | |
| Client: D | ES | | | | | | | | | | | | | |
| RELINQ | UISHED BY (SI | GN.): | DATE/TII | ME: | ANALYZEI | D BY: | [| 1 | DATE/ | ΓΙΜΈ: | | TWA: | | |
| RECEIVI | D BY (SIGN.): | | DATE/TI | ME: | ANALYZEI | D BY: | <u> </u> | | DATE/1 | 5/22_ TIME: | | | | |
| CODES: | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMP 122 C1595 B C1597 OWA 20706 | | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | VED BY (SIGN.): DATE/TO VED BY (SIGN.): S: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA TE NUMBER C1595 B C1597 OWA 20708 C1598 OWA 6113 C1599 H 097 C1601 TWA 70 C1602 H 090 | | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | PRE | FLOW POST | AVC | TOTAL | FIB | FIB |
| 4/1/2 | 2 C1595 | B | | - Field blank - | | | - OFF | IIIVIE | PRE | PUST | AVG | VOL | FLD | cc |
| 1 | C1596 | B | | Field blank. | | | | | | | | 7 | 0/100 | |
| | C1597 | AWO | 207067 | LUZ@ Skybridge | 0/100 | 0631 | 1425 | 474 | 5 | 15 | 5 | 2370 | 0/1 <i>00</i> 5.5 | |
| \perp | C1598 | | | Lv 2 hall at 283/254 | 0/100 | 0644 | + | 452 | 2.8 | 2.8 | 2-8 | | 0/(01) | 0.001 |
| | C1599 | H | 097 | W. Staillase Hepa exhaust | ^ / | 0648 | 1413 | 445 | 2.1 | 2.1 | | | a /. a > | <0.001 |
| | C1600 | 17 | 089 | (Ext) exhaust @ 1964 | 0/100 | 0661 | | 443 | 2 | 2 | 2 | | <i>c</i> . | <0.003 <0.003 |
| | 61601 | | | LU I OUTSIDE OF MECH RIM | 0/100 | 0728 | 1431 | 413 | 5 | 5 | 5 | 2115 | 4100 | 0.061 |
| 1 | | | 090 | ECE-Exhaust 4 | 0,700 | 0755 | 1412 | 377 | 2 | 2 | 2, | 754 | 1/100 | 1000 1004 |
| | C1603 | 17 | AUSUA | hoof-NAUG | 0/160 | 0737 | 1419 | 402 | 5 | 5 | 5 | | 1.5/100 | L0,00 |
| | | | | | | | | | | | | | | |
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| Project N | ame: Pierce C | ollege O |)lympic Soı | uth Al | Abatement and Repairs | | | WEAT | HER/TEMP | <u>. </u> | Comme | onte: | | | |
|-------------|--|-----------|---------------|--------------|-----------------------------------|--|----------------------------------|-------------|--|--|-----------------|--------|-------------|-------------|--------------|
| | lo.: 40535.488 | | | | I.H. CAMERON BUD NICK | | | - | | • | Commie | ints: | | | |
| Location: | Lakewood, W | /A | | | SAMPLE MEDIA/ANALYTICAL METHO | OD: | | 1 | | | | | | | |
| Contracto | or: Dickson | | | | NIOSH 7400 | | | | | | | | | | |
| Client: DE | | | | | | | | | | | | | | | |
| | JISHED BY (SI | | DATE/TIN | VIE: | | ANALYZEI | D BY: | 1.1 | 11 | DATE/ | TIME: | | TWA: | | |
| RECEIVED | D BY (SIGN.): | | DATE/TIN | VIE: | | ANALYZE | MITH M | L. H. C. | NOT | DATE/I | | | 1 | | |
| CODES: | IWA INSIDE OWA OUTSI | DE AREA | A | Α . | CLEARANCE AMBIENT AIR BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANO | NC | PLE | GBA H | GLOVE B HEPA | 3AG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | | FLOW | | TOTAL | | FIB |
| 4/4/22 | | В | ^ | F | TIELD BLANK | AVG | ON | OFF | TIME | PRE | POST | AVG | | FLD | СС |
| | C1605 | В | ~ | | IELD BLANK | | #== | | | 亖 | | | | 0/100 | |
| | NUMBER 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | CE - EXHAUST 1 | | 0857 | 1425 | 226 | 2 | 2 | 2 | 656 | | <0.004 |
| 4 | C1606 B - | | | | 1- @ MECH RM CONTAIN. | | 0940 | 1 1 | | 5 | 5 | | | 35/100 | |
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| lecount Sar | imple # | C/100 R | Recount | 0/10 | 100 | | | | | , | | | | | |
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| Project Na | ame: Pierce C | Jollege O | Ilympic Sou | uth Abatement and Repairs | | | TWEAT | HER/TEMP | <u>. </u> | Trans | | | | |
|-------------|--|---------------|--|---|--------------------|----------------------------------|----------------|---------------|--|-----------------|-------------|-------|---------------------------------------|--------------|
| | | | | I.H. PETER STENSLY | - / \ | | - | IERY I EIVI | ' ; | Comme | ents: | | | |
| Location: | Lakewood, W | /A | | SAMPLE MEDIA/ANALYTICAL ME | AND ETHOD: | | 1 | | | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| | | | DATE/TIN | ME: | ANALYZEI LIKESM | D BY: | 110 | QA | DATE/1 | | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ME: | ANALYZED | D BY: | <u>L. M. V</u> | XM | DATE/I | | | 1 | • | |
| · · | ES: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA SAMPLE NUMBER CODE PUMI 122 CI 608 CI 609 CI 600 CI | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANO | NC |) t | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | TE NO.: 40535.488 On: Lakewood, WA actor: Dickson DES QUISHED BY (SIGN.): DATE/ VED BY (SIGN.): DATE/ SE: P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA CIGOS | | РИМР | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | PRE | FLOW | —— | TOTAL | FIB | FIB |
| 4/5/22 | NQUISHED BY (SIGN.): DATE EIVED BY (SIGN.): DATE DATE DATE PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA OWA OUTSIDE AREA CODE PUN AZZ CI 608 CI609 CI600 CI | | | FIELD BLANK _ | | | | INVIL | PRE | POST | AVG | VOL | FLD 0/100 | СС |
| | C1609 | 1 | <u> </u> | FIELD BLANK - | | | | | | | | 3 | %100 | |
| | P PERSONAL IWA INSIDE AREA OWA OUTSIDE AREA ATE SAMPLE NUMBER CODE PUMI 6/22 C1608 C1609 C1610 DWA HEPO C1611 OWA 097 | | | LV2 @ SKYBRIDGE | 0/100 | | 1431 | 466 | 5 | 5 | 5 | 2330 | | 0.00) |
| | NUMBER CODE PUM 1/22 C1608 C1609 C1600 DWA HIFFO C1611 OWA 097 | | | LVI CHANGE ROOM | 0/100 | 0652 | | | 2-5 | | | 1123 | , , , , , , , , , , , , , , , , , , , | 20.003 |
| | C16131 | H | 981 | ECE - EXHAUST 5 | <i>€</i> /100 | 0711 | 1428 | 437 | 2·1 | 2.1 | | 918 | | (0,003 |
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| ecount Sa | ion: Lakewood, WA ractor: Dickson E: DES NQUISHED BY (SIGN.): DATI IVED BY (SIGN.): DATI | | Recount | 0/100 | | | | | | | | | | |



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| Project N | ame: Pierce C | ollege O | lympic Sou | th Abatement a | and Renairs | | | WEATH | IER/TEMP | | Commo | | | | |
|------------|----------------------------------|----------|------------|-----------------------------------|---|------------------|---------------------------------|-------------|---------------|----------|-----------------|--------|----------|-----------|---------------------------------------|
| | o.: 40535.488 | | | | | | | - | ILIQ I LIVIF | • | Comme | ents: | | | |
| Location: | Lakewood, W | Ά | | SAMPLE | ETER STENSLAN MEDIA/ANALYTICAL METHO | <i>D</i> DD: | | 1 | | | | | | | |
| Contracto | r: Dickson | | | NIOSH 7 | 400 | | | | | | | | | | |
| Client: DE | | | | | | | | | | | | | | | |
| | ISHED BY (SI | | DATE/TI | /IE: | | ANALYZEI | BY: | 17/ | 21. | DATE/ | FIME: | | TWA: | | |
| | BY (SIGN.): | | DATE/TI | 1E: | | ANALYŽE | BY: | in for the | P | DATE/ | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | A | C CLEARAN A AMBIENT B BLANK | | PRE EX TEM | PRE-ABAT EXCURSIC CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | A | LOCATION CTIVITY / PERSON | BLANK AVG | TIME | TIME OFF | TOTAL TIME | PRE | FLOW | AVG | TOTAL | FIB | FIB |
| 4/6 | C1613 | В | _ | | BLANK | | | U.I. | 711071 | FRE | PUST | AVG | | FLD 9/100 | СС |
| | C1614 | 3 | _ | _ | BLANK | , | | | | | | | <u> </u> | 0/100 | |
| | C1615 | 14 | 089 | | XHAUST 3 | 0/100 | 0701 | 1420 | 439 | 2.2 | 2.2 | 1.2 | 966 | : 7 | Lo.003 |
| | Clale | | | LUIR | CLEAN ROOM | 0/100 | 0704 | | | | 2.2 | | -955 | | 40.003 |
| 7 | C1617 | TUA | 070 | LVI N | EAR MEUL ROOM | 0/100 | 0721 | | | 5 | 5 | 5 | 1680 | 13/100 | 0.004 |
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Trecount 1

| Project N | ame: Pierce Co | ollege O | lympic Sou | h Abatement and Repairs | | | WEATH | ER/TEMP | | Comme | nts: | | | |
|--------------|-----------------------------------|----------|-------------|--|--------------------|-----------------------|-------|---|---------------|-----------------|---------|-------|-------------|---------------------------------------|
| | o.: 40535.488 | | | | | | | • | | | | | | |
| Location: | Lakewood, W | A | | I.H. TETER STENSIA SAMPLE MEDIA/ANALYTICAL ME | <u>れい</u> THOD: | | - | | | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DE | S | | | | | | | | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TI | IE: | ANALYZEI | | 1 11 | 7/ | DATE/ | TIME: | | TWA: | | · · · · · · · · · · · · · · · · · · · |
| RECEIVE | BY (SIGN.): | | DATE/TI | E: | Mike Smi | BY: | of X4 | m/X_ | 4/8/ DATE/ | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTSI | E AREA | Α | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION | N | LE | GBA H | GLOVE E HEPA | BAG ARI | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | PRE | FLOW | AVG | TOTAL | FIB FLD | FIB CC |
| 4/2/22 | 21618 | B | - | FIELD BLANK | | | | | | . 00. | AVG | ~>> | 1100 | |
| / | 01619 | B | - | FIELD BLANK | | | | | | | | 7 | 0/100 | |
| | C1620 | H | 090 | ECE - EXHAUST 04 | -5/100 | 0635 | 1426 | 471 | 2 | 2 | 2 | | | 40.003 |
| | C1621 | OWA | 089 | LVI @ CLEAN ROOM | 1.5/100 | | | | 2.5 | 2.5 | 2.5 | 1152 | 4/200 | 10000 |
| | C1622 | IWA | 070 | LJI @ MECH. ROOM | | 0752 | | | 5 | 5 | 5 | 1930 | 34.5/100 | 0.009 |
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| Recount S | ample # | C162 | Recount | 4/180 | | | | | | | | | | |



PBS Engineering and Environmental Inc. 214 E BALER STREET, SUITE 300-SEATTLE, WA 98102 206 233,939

pbsusa.com

| Project Na | ame: Pierce C | ollege O | lympic Sou | th Abatement and Repairs | | | WEATH | IER/TEMP | : | Commo | ents: | | | |
|-------------|----------------------------------|----------|------------|---|------------------|----------------------------------|--------|----------|----------|-----------------|--------|--------|----------|-------|
| Project No | o.: 40535.488 | | | I.H. Peter Stansland | | | 1 | | | 100 | | | | |
| Location: I | Lakewood, W | Α | | SAMPLE MEDIA/ANALYTICAL METH | IOD: | | 1 | | | _ | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | 5 | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIM | ME: | ANALYZE | D BY: | 1110-1 | Seli | DATE/ | TIME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | AE; | ANALYZE | D BY: | me / | 77000 | DATE/ | 12/22 TIME: | | - | | _ |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LEGOIN | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | PRE | FLOW L | | TOTAL | FIB | FIB |
| 4/11/2022 | C1627 | B | - | Field Blank | 3.5/100 | 0.1 | OIT | THVIE | PRE | POST | AVG | VOL(L) | 3.5/100 | СС |
| -1 | C1628 | B | 1 | Field Blank | , | | | | | | | | 3.5/00 | |
| | C1629 | 37A | H | ECE-Exhaust | | 7:25 | 2:25 | 420 | 5 | 5 | 5 | 2100L | 5/100 | 4.001 |
| | 01620 | | IWA | Level central area | | 7:33 | 1:56 | 331 | 5 | 5 | 5 | 1655 | 12.5/100 | |
| 10 | C1631 | | AWO | Level 1 decon | | 7:54 | 1:57 | 309 | 5 | 5 | 5 | 1545 | 11/100 | . 002 |
| W | C1632 | 097 | H | Level 3 HEPA Exhapt | 4 | 9:16 | 2:28 | 316 | 2.5 | 2.5 | 2.5 | | 8/100 | 4.003 |
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| Recount Sa | mple # | | Recount | | | | | | | | | | | |



PBS Engineering and Environmental Inc. 214 E GALER STREET, SUITE 100 SCATTIE, WA 98102 206.233 939

pbsusa.com

| Project Na | ame: Pierce C | ollege O | lympic Sou | uth Abatement and Repairs | | | WEATI | HER/TEMP | P: | Comme | ents: | | | |
|-------------|------------------------------------|----------|------------|-----------------------------------|------------------|-----------------------|---------------|--|--------|-----------------|--------|-------|------------|-------|
| | o.: 40535.488 | | | I.H. Peter Stansland | 1 | | the second of | ~ (sno | | | Anta. | | | |
| Location: | Lakewood, W | A | | SAMPLE MEDIA/ANALYTICAL METHO | DD: NIOSH | 7400 | - | A STATE OF THE STA | | | | | | |
| Contracto | or: Dickson | | | | | | | | | | | | | |
| Client: DES | | | | | | | | | | 1 | | | | |
| | ISHED BY (SI | | DATE/TIN | NE: | ANALYZE | D BY: Clai | uu-T | Lai | DATE/T | TIME: | 5122 | TWA: | | |
| | BY (SIGN.): | | DATE/TIM | ΛE: | ANALYZEI | D BY: | | | DATE/T | | 0120 | | | |
| CODES: | P PERSO IWA INSIDE OWA OUTSI | DE AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION | ON | PLE | | GLOVE E HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | PRE | FLOW (L) | | TOTAL | FIB FLD | FIB |
| 412177 | C1633 | B | - | Field Blank | 2.25/100 | | | | 7 112 | 100. | AVC | VOL | 1.5/100 | cc |
| 1 | C1634 | B | - | Field Blank | | | | | | | | | 3/100 | |
| | C1635 | H | 37 A | ECE - Exhaust 3 | | 7:43 | 2:20 | 397 | 5 | 5 | 5 | 1985 | E | 1.001 |
| 4 | C1636 | H | 097 | Level 3 electrical Rm containment | * 1 | | 2:29 | 17.5 | 2.5 | | | 947.5 | 5/100 | 4.003 |
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| ecount Sar | mple # | | Recount | | | | | | | | | | | |



PBS Engineering and Environmental Inc. 114 E GALER STREET, SUITE 300 SLATTLE, WA 98102 206 233 939

pbsusa.com

| Project Na | ame: Pierce C | ollege O | lympic Sou | th Abatement and Repairs | | | | IER/TEMP | | Comme | ents: | | | |
|-------------|-----------------------------------|----------|------------|-----------------------------------|------------------|----------------------------------|----------|---------------|----------|----------|--------|-------|-------|-------|
| Project No | o.: 40535.488 | | | I.H. Peter Stenslar | nd | | | in 14 | | | | | | |
| Location: | Lakewood, W | /A | | SAMPLE MEDIA/ANALYTICAL ME | | 7400 | 1 | | | | | | | |
| Contracto | r: Dickson | | | | | | | | | | / | | | |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUI | ISHED BY (SI | GN.): | DATE/TIN | AE: | ANALYZE | D BY: | ins | seri | DATE/ | TIME:4/ | IE IM | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | D BY: | 10- | VV- | DATE/ | TIME: | 15120 | / | | |
| CODES: | P PERSO IWA INSID OWA OUTSI | DE AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANG | N | LE | GBA H | GLOVE E | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL TIME | PRE | FLOW (L) | | TOTAL | FIB | FIB |
| 4/13122 | C1637 | B | | Field Blank | 3/100 | | <u> </u> | THVIC | FRE | F031 | AVG | VOL | FLD | сс |
| | C1638 | B | | Field Blank | | | | | | | - | _ | 3/100 | |
| | C1639 | H | 37A | ECE - Exhaust 2 | | 7:40 | 2:13 | 393 | 5 | 5 | 5 | 1965 | | 4,001 |
| | C1640 | AMO | 70 | Level 1 decon | | 7:48 | 1:02 | 314 | 5 | 5 | 5 | 1570 | | 4.002 |
| 4 | C1641 | IWA | 8504 | Levell SE of meth Rm | 1 | 7:49 | 1:00 | 311 | 5 | 5 | 5 | | 5/100 | 4.002 |
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| Recount Sa | mple # | | Recount | | | | - | | | | | | | |



PBS Engineering and Environmental Inc. 214 E GALER STREET, SUITE 300 SEATTLE, WA 98102 206, 233, 939

pbsusa.com

| Project Na | me: Pierce C | ollege O | lympic Sout | th Abatement and Repairs | | | WEATI | HER/TEMP |) : | Comme | ents: | | 4 | |
|-------------|------------------------------------|----------|-------------|---|------------------|-----------------------|-------|----------|------------|---------|--------|-------|--------------|-----------|
| Project No | o.: 40535.488 | | | I.H. Peter Stensland | 1 | | | | | | | / | | |
| | Lakewood, W | Α | | SAMPLE MEDIA/ANALYTICAL MI | | | 1 | | | | / | | | |
| Contractor | : Dickson | | | NIO3H 7400 | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUI | ISHED BY (SI | GN.): | DATE/TIM | IE: | ANALYZE | ED BY: Cla | ino | TAGI | DATE/ | | 00 | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | IE: | ANALYZE | D BY: | 1000 | 200 | DATE/ | | 5122 | / | | |
| | P PERSO IWA INSIDE OWA OUTSI | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION | ON | PLE | GBA H | GLOVE E | 3AG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | | TIME | TOTAL | PRE | FLOW | AVG | TOTAL | FIB FLD | FIB CC |
| 4/14/22 | C1642 | B | - | Field Blank | 1,00 | | | 7, | | 1001 | AVG | VOL | 1/100 | |
| | C1643 | B | - | Field Blank | | | | | | | | | 1/100 | |
| | C1644 | | 37A | ECE-Exhaust 4 | | 7:32 | 2:18 | 406 | 5 | 5 | 5 | 2030 | 4/100 | 2.001 |
| | C1645 | | 70 | Level 1 decon | | 8:40 | | | 5 | 5 | 5 | | Tree Control | |
| 1 | 01646 | C | HF1004 | Level 2 Mech. Mezz | J | 11:17 | 1:27 | | 12 | 12 | 12 | 1560 | 10/100 | .003 |
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| lecount Sar | mple # | | Recount | | | | | | | | | | | |



PBS Engineering and Environmental Inc. 2146 GALER STREET, SQUTE 300 SEATTLE, WA 98102 206 233 939

pbsusa.com

| Project Na | ame: Pierce Co | ollege O | lympic Sout | th Abatement and Repairs | | | WEATH | HER/TEMP | : | Comme | ents: | | | |
|-------------|------------------------------------|----------|-------------|---|------------------|-----------------------|-------|----------|----------|-----------------|--------|-------|---------|-------|
| Project No | o.: 40535.488 | | | I.H. Peter Stenslan | rd | | | | | | | | | - |
| Location: I | Lakewood, W | Α | | SAMPLE MEDIA/ANALYTICAL N | METHOD: | | 1 | | | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUI | ISHED BY (SI | GN.): | DATE/TIM | IE: | ANALYZEI | D BY: | ÜLET. | seci | DATE/ | TIME: | 2 | TWA: | | |
| | BY (SIGN.): | | DATE/TIM | IE: | ANALYZEI | D BY: | 0-0, | 7 | DATE/ | | | / | | |
| CODES: | P PERSO IWA INSIDI OWA OUTSI | E AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION | NC | 'LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | PRE | FLOW | LAVC | TOTAL | FIB | FIB |
| 4/15/22 | C1647 | B | _ | Field Blank | 2/100 | - | ULL | THVIE | PRE | PUST | AVG | VOL | FLD 100 | СС |
| | C1648 | B | - | Field Blank | 1 | 7 | | | | | | | 3/00 | |
| 4 | C1649 | 11 | 097 | Level 3 Exhaust | 4 | 07:17 | 2:22 | 425 | 2.5 | 2.5 | 2.5 | 10625 | 3/100 | ۷.003 |
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PBS Engineering and Environmental Inc. 214 E GALER STREET, SUITE BOD SEATTLE, WA 98102 206, 233,939

pbsusa.com

| Project Na | ame: Pierce C | ollege O | lympic South | Abatement and Repairs | | | WEATH | IER/TEMP |): | Comm | ents: | | | |
|------------|----------------------------------|----------|--------------|-------------------------------|------------------|---------------------------------|-------|----------|----------|---------------|--------|-------|------------|-----------|
| Project No | o.: 40535.488 | | | I.H. Peter Stensland | | | 1 | | | | | | | |
| Location: | Lakewood, W | /A | | SAMPLE MEDIA/ANALYTICAL METI | HOD: | | 1 | | | 1 | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | 1 | | | | |
| Client: DE | S | | | | | | | | | | | | | |
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| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | A E | A AMBIENT AIR | PRE EX TEM | PRE-ABA EXCURSION CLEARAN | ON | PLE | GBA H | GLOVE HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | PRE | FLOW | AVG | TOTAL | FIB FLD | FIB CC |
| 4/19/22 | C1655 | B | | Blank | 9/100 | / | | | | 1001 | 7 | 701 | 0/100 | cc |
| 1 | C1656 | B | | Blank | | / | | / | | | | | 0/100 | |
| | C1657 | H | 7058 | IVI 2 Exhaust from Elean | her | 8:07 | 14:17 | 430 | 10 | 10 | 10 | 4300 | | 2.000 |
| V | 01658 | 4 | HV19-1 | IVI 3 Exhaust from electric | | 8:12 | 14:19 | 407 | lo | 10 | 10 | | 19/100 | |
| V | C1659 | OWA | 70 | IVI I Decen | * | 8:30 | | 307 | 5 | 5 | 5 | 1510 | | .002 |
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PBS Engineering and Environmental Inc. 214 E GALER STREET, SUITE 500 SEATTLE, WA 9810J 206-233 939

pbsusa.com

| Project Na | me: Pierce C | ollege O | lympic Sout | n Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | nts: | | | |
|-------------|------------------|----------|-------------|-------------------------------|------------------|----------------------------------|-------|---------|----------|-----------------|---------|-------|-----------|-------|
| Project No | .: 40535,488 | | | I.H. Ferman Fle | tche.v | _ | 17.79 | | | | | | | |
| Location: L | akewood, W | Α | | SAMPLE MEDIA/ANALYTICAL METH | | | | | | | | | | |
| Contractor | : Dickson | | | NIOSH 7400 | | | | | | 1 | | | | |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUI | SHED BY (SI | GN.): | DATE/TIM | E: | ANALYZE | D BY: | 7 | | DATE/ | IME: | | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | E: | ANALYZEI | D BY: | | | DATE/ | IME: | 2 | | | |
| CODES: | | E AREA | | | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | .E | GBA H | GLOVE E HEPA | BAG ARI | EA . | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | 205 | FLOW | | TOTAL | FIB | FIB |
| 4/21/2 | | B | | Field Blank | %100 | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD 0/100 | СС |
| | C1661 | В | | Field Blank | 1 | | | | | | | | 1/100 | |
| | C1662 | H | 37A | ECE#2 | | 7:45 | 14:19 | 394 | 5 | 5 | 7 | 1970 | 6/100 | .001 |
| | C1663 | H | 7058 | LULZHEPA Exhaus+ | | 7:49 | 14:22 | 393 | 5 | 5 | 5 | 1965 | 3.5/00 | (.001 |
| | C1664 | 3wA | 70 | Lul pecon | * | 901 | 14:10 | 309 | 5 | 5 | 5 | 1545 | 7/100 | .002 |
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PBS Engineering and Environmental Inc. 214 E GALER STREET, SUITE 300 SEATTLE, WA 98102 206,233,939

| Project N | ame: Pierce C | ollege O | lympic South | n Abatement and Repairs | | | WEAT | HER/TEMP | : | Comm | ents: | | | |
|------------|----------------------------------|----------|--------------|-------------------------------|------------------|---------------------------------|------|----------|----------|-----------------|--------|-------|------------|-------|
| Project N | o.: 40535.488 | 4.7 | | 1.H. Peter Stersland | | | | | | | | | | |
| Location: | Lakewood, W | /A | | SAMPLE MEDIA/ANALYTICAL MET | THOD: NIOSH | 7400 | 1 | | | | | | | |
| Contracto | r: Dickson | | | | | | | | | | | | | |
| Client: DE | S | | | | | | | | | l | | | | |
| Peter | | | DATE/TIM | E: 1/2022 | ANALYZE | D BY: | wet. | tai | DATE/ | TIME: 5/9/27 | 7 | TWA: | | |
| RECEIVED | BY (SIGN.): | | DATE/TIM | E: | ANALYZE | D BY: | 7/ | | DATE/ | | | 1 | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | A E | A AMBIENT AIR | PRE EX TEM | PRE-ABA EXCURSION CLEARAN | NC | PLE | GBA H | GLOVE HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK | TIME | TIME | TOTAL | | FLOW (L | | TOTAL | FIB FLD | FIB |
| 4/22/2 | C16C5 | B | | Blank | 1/100 | / | | | - | 7031 | AVG | VOL | 1/100 | cc |
| | C1666 | B | | Blank | 1 | | | | / | | | | 1/100 | 1 |
| | C1667 | H | 374 | FEE 4 | | 8:22 | 2:/5 | 353 | 5 | 5 | 5 | 1765 | 5/100 | |
| | C16C8 | H | 7058 | level 2 H exhaust | | 8:28 | 2:10 | 342 | 5 | 5 | 5 | 1,710 | 4.5/00 | 4.002 |
| - | 01669 | OWA | 70 | level Decom | V | 8:40 | 2113 | 333 | 5 | 5 | 5 | 1,665 | 12/100 | .004 |
| | | | | | | | | | | | | | | |
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| Project N | lame: Pierce (| College C | Olympic South | Abatement and Repairs | | | WEAT | HER/TEM | | T- | | | | |
| | lo.: 40535.488 | | | | | | - | LIERA I EINI | P: | Comm | | -1-11 | | |
| Location: | Lakewood, V | VA | | SAMPLE MEDIA/ANALYTICAL ME | THOS: NICCH | 7400 | - | | | 3 | ay | | | |
| Contracto | or: Dickson | | | | THOD, NIOSH | 7400 | 1 | / | | cm | ail | Resu | lts to | |
| Client: DE | S | | | - | | | | | | Clai | re,+ | sai @ | I to to plosusa | .com |
| | ISHED BY (S | | DATE/TIME 5/9/ | | ANALYZE | D BY: | | | DATE/ | | | TWA: | | |
| RECEIVE | D BY (SIGN.): | 1 | DATE/TIME | 5/10/n 13:n | ANALYZE | D BY: | _ | | DATE/ | | | | | |
| CODES: | OWA OUTS | ONAL DE AREA SIDE AREA | С А В | AMBIENT AIR | PRE EX TEM | PRE-ABA EXCURSION CLEARAN | NC | DIF. | GBA H | GLOVE HEPA | BAG AR | REA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK | TIME | TIME | TOTAL | PRE | FLOW (L | | TOTAL | FIB | FIB |
| 4/25/20 | (1670 | B | | Blank | | | - | THE | PKE | POST | AVG | VOL | FLD | CC |
| 1 | 4671 | B | | Blank | | | | | | / | | / | 0 | |
| li | 4672 | 4 | 37A | ECE 1 | | | / | | | | / | | 0 | |
| | 4673 | H | | | | 7:25 | 2:15 | 410 | 5 | 5 | 5 | 2050 | 2/100 | |
| V | | | 7058 | level 2 H estrant | | 7:28 | 1:59 | 391 | 5 | 5 | 5 | 1955 | 3/100 | |
| | C1674 | OM | 70 | ul 1 Decen | | 8:30 | 2:14 | 344 | 5 | 5 | S | 1770 | 100 | |
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| ecount Sar | mple # | F | Recount | | | | | | | - | - | - | | |

ASBESTOS & OTHER FIBER ANALYSIS BY NIOSH 7400 (PCM)

Attention: Claire Tsai
Client: PBS Engineering and Environmental, Seattle
Address: 214E Galer Street, Suite 300, Seattle, WA 98102

Batch #: 202209985 Job#: 40535,488 Samples: 5

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| (t/mmz/: 0.0)Q: Limits of Quantific | Blank Ave. | Date | Pump # | Eovironment | Decon | Protection | туре | Cirming | 2 | Date | Pump# | Environment | Decon | Protection | Туре | Sample ID | Date | # dmn 3 | Dina | Environment | Decon | Protection | Type | Sample ID | Date | Pump # | Environment | Decon | Protection | Type | Sample ID | Date | Pump # | Environment | Decon | РГОГЕСПОВ | Турс | Sample ID |
| LOQ: Limits of Quantification; RL: the Reporting Limit | Minroempo V | 4/25/2022 | 70 | | | | OWA | C1674 | 2202/Cz/t | Alogiopo | 8307 | | | | Н | C1673 | 4/25/2022 | 37A | | | | | н | C1672 | 4/25/2022 | | 17 | | | Blank | C1671 | 4/25/2022 | | Pt . | | | Blank | Sample ID C1670 |
| n; RL: the Reporting Limit | | | StartTime 08:20 | | Worker | Obscrvation | Activities | Location Lvl 1 Decon | Startikate 5 | 5 | | | Worker — | Observation — | | Location Le | StartRate 5 | StartTime 07:25 | | WOLKER | | Observation | | Location B | StartRate | StartTime | | Worker | Observation | | Location 1 | StartRate | StartTime | | Worker | Observation - | Activities - | Location Blank |
| | | | | | NSS | | | ı Decon | End Rate | | i | JOJN | CONT | | | Lovel 2 H Exhaust | End Rate | End Time | | SSN | | | | ECE 1 | End Rate | End Time | | NSS | | | Blank | End Rate | End Time | | NSS | | | Blank |
| Effective Filtration Area (mm2):385 | 5 Avc. Rate | 4 | | | | | | | 5 Ave. Rate | 13:59 | | | | | | | 5 Ave. Rate | 14:15 | | | | | | | Ave. Rate | | | | | | | Ave. Rate | | | | | | |
| Precision:16%+/- | 5 Liters | | | * | Cert | | | | 5 Liters | Min. | | ** } | Cat | | | | 5 Liters | Min. | | * Cert | | | | | Liters | V. | * | Cert | | | | Liters | V. | | Cert | | | |
| | 1720 | # | Τ. | | | | | | 1955 | 391 | | | L | | | | 2050 | 410 | | | | | | | | | | | | | | | | | | | | |
| Accuracy:10%+/- | Fb/cc < | Fb/mm2 < | Fb/Fields | RL (Fb/cc) | LUC (MAX) | 3 | LOO CMIN | Ш | \perp | Fb/mm2 | Fb/Fields | RL (Fb/cc) | LOQ (MAX) | (NIM) DOT | | | ну/сс | Fb/mm2 | Fb/Fields | RL (Fb/∞) | LOQ (MAX) | (NIM) DOT | | | Fb/mm2 | Fb/Freids | RL (Fb/cc) | LOQ (MAX) | TOO (MIN) | | | Fh/m | ru/rieids | 10000 | PI. (Eh./on) | LOO OWAY | LOO CANNO | |
| | 0.002 | 7.00 | 1 | 0.002 | 0.291 | 0.01 | 0.03 | - 11 | - 1 | < 7.00 | 3 | 0.001 | 0.256 | 0.020 | | П | < 0.001 | 1 | 22 | | 0.244 | 0.019 | | | < 7.00 | 0 | | | | | | · 7.00 | \dagger | + | | | 3 | |

Sampled by: Claire Teal
Analyzed by: Clai Xu

Reviewed by: Stave (Ganyao) Zhang Spresident

Date: 5/10/2022 Date: 5/10/2022



PBS Engineering and Environmental Inc. 214 E GALEA STREET, SUITE 300: SEATTLE, WA 98102 206 233 939

pbsusa.com

| Project N | ame: Pierce C | ollege O | lympic South | Abatement and Repairs | | WEATH | ER/TEMP | : | Comm | ents: | | | _ | |
|------------|---|----------|--------------|---------------------------------------|----------------------|----------------------------------|---------|-------|----------|---------------|--------|-------|------------|-----|
| Project N | o.: 40535.488 | | | I.H. Ferman Fletc | | | | | | | | | | |
| Location: | Lakewood, W | Α | | SAMPLE MEDIA/ANALYTICAL METHO | | | | | | | | | | |
| Contracto | r: Dickson | | | NIOSH 7400 | | | | | | 1 | | | | |
| Client: DE | S | | 15. | | | | | | | | | | | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TIM | E | ANALYZE | BY: | | - | DATE/ | TIME: /s | | TWA: | | |
| | BY (SIGN.): | | DATE/TIM | : | ANALYZE | BY: | 70 | | DATE/ | | 12 | | | |
| CODES: | OWA OUTSIDE AREA OWA OUTSIDE AREA OATE SAMPLE NUMBER CODE PUMP | | | CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | ON | LE | GBA H | GLOVE HEPA | BAG AR | EA | | |
| DATE | ATE SAMPLE CODE PUMP LOCATION ACTIVITY / PER | | | | BLANK TIME AVG ON | | TIME | TOTAL | PRE | FLOW | AVG | TOTAL | FIB FLD | FIB |
| 4/2662 | C1675 | B | | Blank | 6/100 | | | | | | 7 | VOL | 0/100 | |
| | C1676 | B | | Blank | | | | | / | | | / | 0/100 | |
| | C1677 | H | 37A | ECE#2 | | 6:52 | 14:28 | 456 | 5 | 5 | 5 | 2,280 | 9/100 | |
| | C1678 | H | 7058 | Level 2 HEPAexhaust | | 6:55 | | 448 | 5 | 5 | 5 | | 0/100 | |
| | C1679 | SWA | | Level 1 Decon | V | 9:18 | 14:26 | 308 | 5 | 5 | 5 | | 2.5/100 | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |
| Recount Sa | ample # | | Recount | | | 18 | | | | | | | | |



PBS Engineering and Environmental Inc. 214 EGALER STREET, MITTE 400 SEATTHE, WA 28102 706, 233,939

pbsusa.com

| RECEIVED BY (SIGN.): DATE/TIME: S//0/32 13:20 ANALYZED BY: DATE/TIME: | |
|--|-----|
| Claive . + Sai @ pbs usa.com RELINQUISHED BY (SIGN.): DATE/TIME: 5/9/22 RECEIVED BY (SIGN.): DATE/TIME: TWA: ANALYZED BY: DATE/TIME: DATE/TIME: TWA: | |
| Claive . + Sai @ pbs usa.com RELINQUISHED BY (SIGN.): DATE/TIME: 5/9/22 RECEIVED BY (SIGN.): DATE/TIME: TWA: ANALYZED BY: DATE/TIME: DATE/TIME: DATE/TIME: TWA: | 200 |
| Claive . + Sai @ pbs usa.com RELINQUISHED BY (SIGN.): DATE/TIME: 5/9/22 RECEIVED BY (SIGN.): DATE/TIME: TWA: ANALYZED BY: DATE/TIME: DATE/TIME: DATE/TIME: TWA: | 100 |
| RELINQUISHED BY (SIGN.): CLAULE T-SUN DATE/TIME: 5/9/22 ANALYZED BY: DATE/TIME: TWA: ANALYZED BY: DATE/TIME: DATE/TIME: | 4 |
| \$1/0/32 13:20 | -0 |
| | |
| CODES: P PERSONAL C CLEARANCE PRE PRE-ABATEMENT GBA GLOVE BAG AREA IWA INSIDE AREA A AMBIENT AIR EX EXCURSION H HEPA OWA OUTSIDE AREA B BLANK TEM CLEARANCE SAMPLE | |
| DATE SAMPLE CODE PUMP LOCATION BLANK TIME TIME TOTAL FLOW(L) TOTAL FIB FI | |
| 4/27/2/C1680 B Blank ACTIVITY/PERSON AVG ON OFF TIME PRE POST AVG VOL FLD CO | |
| 1 C1681 B Blank | |
| 4 C1682 OWA 70 Level 1 decon 8:20 2:11 351 5 5 5 1755 5/101 | |
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| | |
| Recount Sample # Recount | |

ASBESTOS & OTHER FIBER ANALYSIS BY NIOSH 7400 (PCM)

Attention: Claire Tsal
Client: P8S Engineering and Environmental, Seattle
Address: 214 E Galer Street, Sulta 300, Seattle, WA 98102

Batch #: 202209963 Job#: 40535.48B

Samples: 3

w Ŋ Project Location: Lakewood, WA
Sample ID C1680 Date Sample ID Invironment Environment Date Sample ID Type Protection Environment Pump # Type Protection Pump # Decon Protection Date Decon Pump # Decon Type 4/27/2022 VMO C1682 Blank C1681 Blank 70 StartRate StartTime StartRate StartTime StartRate StartTime Worker Worker Worker Observation Observation Observation Activities Activities Location Blank Location Level 1 Decon Activities Location Blank 08:20 6 End Rate End Time End Rate End Time End Time End Rate SSN NSS SSN 14:11 ţ; Ave. Rate Ave. Rate Ave. Rate G Liters Min. Liters Min. Liters Min. 1755 351 RL (Fb/cc) CXVW) DOT LOQ (MIN) RL (Fb/cc) CXVW) DOT Fb/Fields RL (Fb/cc) (NIIM) DOJ Fb/mm2 Fb/mm2 Ph/Fields Fb/cc Fb/Fields Fb/mm2 Fb/cc Fb/cc 0.002 0.002 0.022 7.00 7.00 7.00

Hinth Ave. Mi (f/mma): 0.0 Mi LOQ: Limits of Quantification;

Microscope View Area (mm2):0.00785

RL: the Reporting Limit

Effective Filtration Area (mm2):385

Precision:16%+/-

Accuracy:10%+/-

Sampled by: Claire Tsal
Analyzed by: Clcl Xu

Reviewed by: Steve (Fanyao) Zhang - President

Date: 5/10/2022

Date: 5/10/2022

20209962



PBS Engineering and Environmental Inc. 7345 CALER STREET, SUITE 303 SEATTLE, WA 98102 206, 233 939

obsusa.com

| Project I | Name: Pierce | College C | Olympic So | uth Abatement and Repairs | | | harar | upp man | | | | | | |
|------------|--|-----------|------------|-----------------------------------|------------------|----------------------|-------|---------|----------|---------------|--------|-------|---------|-------|
| | No.: 40535,488 | | | I.H. Peter Stensla | nd. | | WEAT | HER/TEM | P: | Comn | nents: | TAT | | |
| Location | : Lakewood, V | VA | | SAMPLE MEDIA/ANALYTICAL | METHOD: NIOSH | 7400 | - | | | 5 | way | 1211 | plosusa | |
| Contract | or: Dickson | | | | | | | | | Ke | 5017 | 5 10 | | |
| Client: D | | | | | | | | | | cla | iverte | iai e | plosusa | · com |
| RELINQU | JISHED BY (S | IGN.): | DATE/TI | ME: | ANALYZE | D BY: | | | DATE/ | TIME | | | | |
| | BY (SIGN.) | \sim | DATE/TI | ME: 5/10/22 /3:20 | ANALYZE | D BY: | | | DATE/ | | | TWA: | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA B ATE SAMPLE NUMBER CODE PUMP | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABA EXCURSION | NC | | GBA H | GLOVE HEPA | BAG AR | EA | | |
| DATE | The second of th | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK | TIME | TIME | TOTAL | | FLOW (L | | TOTAL | FIB | FIB |
| 5/2 | C1683 | B | - | Field Blank | Alg | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| | C1684 | В | _ | | | | | | | | | | 0 | _ |
| | 01685 | H | 7068 | Field Blank | | 11:25 | | | | | | - | 0 | |
| | C1686 | 207062 | 7 | LVZ Hela exhaust | | 11:25 | | 170 | 10 | 10 | 10 | 1700 | 100 | |
| | -,00 | H | | LVI Hepa exhaust | | 11:57 | 2:17 | 140 | 15 | 15 | 15 | 2100 | 2/100 | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |
| ecount Sai | mple # | R | ecount | | | | - | | | | | | | |

ASBESTOS & OTHER FIBER ANALYSIS BY NIOSH 7400 (PCM)

Attention: Claire Tsai

Client: PBS Engineering and Environmental, Seattle

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Batch #: 202209962

Job#: 40535.488

Samples: 4

| Pro | ect Location: | Lakewood. W. | A | | | | | | | | | | |
|-----|---------------|--------------|-------------|-------|---------------------------------------|-------|--|---------|--------|---------------|---------------------------------------|-----------|-------------|
| | Sample ID | C1683 | | ion F | ield blank | | · | | ··· | | · · · · · · · · · · · · · · · · · · · | | |
| | Туре | Blank | Activit | ies | | | | | | | LOQ (MIN | 1 | |
| | Protection | | Observati | ion _ | | | | | | | LOQ (MAX | | |
| 1 | Decon | | Worker | | SSI | V | | (| Cert | | RL (Fb/cc) | + | |
| | Environment | | 7 - | | | | | | · — | | Fb/Fields | ╁ | 0 |
| | Pump# | | StartTime | | End Time | | | | Min. | | Fb/mm2 | - | 7.00 |
| | Date | 5/2/2022 | StartRate | | End Rate | | Ave. Rate | | Liters | | Fb/cc | + | |
| ··· | Sample ID | C1684 | Locati | on Fi | eld blank | | | | | | | | |
| | Туре | Blank | Activiti | ies | · · · · · · · · · · · · · · · · · · · | | | | ···· | | LOQ (MIN) | T | |
| | Protection | | Observation | on | · · · · · · · · · · · · · · · · · · · | | | ***** | | | LOQ (MAX) | | |
| 2 | Decon | | Worker | | SSN | Г | | C # | ert | | RL (Fb/cc) | \dagger | |
| | Environment | | 1 - | | | | | " | | | Fb/Fields | ╁ | 0 |
| | Pump # | | StartTime | | End Time | | | | Min. | | Fb/mm2 | - | 7.00 |
| | Date | 5/2/2022 | StartRate | | End Rate | | Ave. Rate | | Liters | | Fb/cc | + | 7,00 |
| | Sample ID | C1685 | Locatio | n Lv | 2 Hepa Exhaust | | | | | | | <u> </u> | |
| | Туре | FI | Activiti | es | | | | | | · · · · · · · | LOQ (MIN) | Т | 0.023 |
| | Protection | | Observatio | n | | | | | | | LOQ (MAX) | ╁ | 0.294 |
| 3 | Decon | | Worker | | SSN | | | Ci # | ert | | RL(Fb/cc) | \vdash | 0.002 |
| | Environment | | | | | | | " | | | Fb/Fields | ┢ | 1 |
| | Pump # | 7058 | StartTime : | U:25 | End Time | 14:15 | | | Min. | 170 | Fb/mm2 | < | 7.00 |
| | Date | 5/2/2022 | StartRate | to | End Rate | 10 | Ave. Rate | 10 | Liters | 1700 | Fb/cc | < | 0.002 |
| | Sample ID | C1686 | Locatio | n Lv | Hepa Exhaust | | | | | | <u> </u> | | |
| | Туре | H | Activitie | 29 | | | | | | | LOQ (MIN) | · | 0.018 |
| | Protection | | Observatio | n — | | | ······································ | | | · | LOQ (MAX) | - | 0.238 |
| 4 | Decon | | Worker | | SSN | | · · · · · · · · · · · · · · · · · · · | Ce | rt | | RL (Fb/cc) | _ | 0.001 |
| | Environment | | 1 - | | | · | ······································ | " | | | Fb/Fields | - | 2 |
| | Pump # | 207067 | StartTime 1 | 1:57 | End Time | 14:17 | | | Min. | 140 | Fb/mm2 | < | 7.00 |
| Į. | Date | 5/2/2022 | StartRate | 15 | End Rate | 15 | Ave. Rate | 15 | Liters | 2100 | Fb/cc | < | 0.001 |

Blank Ave. (f/mm2): 0.0

Microscope View Area (mm2):0.00785

Effective Filtration Area (mm2):385

Precision:16%+/-

Accuracy:10%+/-

LOQ: Limits of Quantification; RL: the Reporting Limit

Sampled by: Claire Tsai

Analyzed by: Cici Xu

Date: 5/10/2022

Reviewed by: Steve (Fanyao) Zhang - President

Date: 5/10/2022



PBS Engineering and Environmental Inc. 214 E GALER STREET, SUITE JOH MATTE, WA 98102 206, 233 939

pbsusa.com

| Project N | No.: 40535.48 | - | 7 | th Abatement and Repairs | | | WEAT | HER/TEM | P: | Comm | ents: | | | |
|------------|---------------|--------|----------|--|--------------|----------------------|--------------|---------|----------|----------|--------|-------|---------|-------|
| | | | | I.H. Peter Stensland | | | 1 | | | 45 | 2. | TAT | - • | |
| Location | : Lakewood, V | VA | | SAMPLE MEDIA/ANALYTICAL MET | HOD: NIOSH | 7400 | - | | | 200 | ay | 1111 | 7 | |
| Contract | or: Dickson | | | | | 7400 | | | | I e | | 770. | / | |
| Client: DE | ES | | | | | | 1 | | | Clair | re.to | said | pbs Use | e.cov |
| RELINOL | JISHED RV (S | IGN.): | DATE/TIN | IE- | | | 1 ' | | | | 1 | | | |
| Cun | m /A | em | | 5/9/22 | ANALYZ | D BY: | | | DATE/ | TIME: | | TWA: | | |
| KECEIVEI | D BY (SIGN.) | ~ | DATE/TIM | lt; | ANALYZE | D BV | | | | | | J | | |
| CODES: | P PERSO | ONAL | | CLEARANCE 13-20 | The state of | | | | DATE/ | TIME: | | 1 | | |
| | IWA INSID | E AREA | A 1 | A AMBIENT AIR BLANK | PRE EX | PRE-ABA EXCURSION | TEMENT ON | | GBA H | GLOVE | BAG AR | EA | | |
| DATE | SAMPLE | CODE | | LOCATION | TEM | CLEARAN | CE SAME | PLE | п | HEPA | | | | |
| | NUMBER | CODE | PUMP | ACTIVITY / PERSON | BLANK | TIME | TIME | TOTAL | | FLOW (L) | | TOTAL | FIB | FIB |
| 13177 | C1687 | B | / | Field Blank | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| | 01688 | B | | | | | | | | | | | 0 | _ |
| | | | 10707 | Field Blank | | _ | | | | | | - | 0 | |
| | | 71 | 20101 | Base of East Stairwell | | 7:15 | 2:16 | 421 | 10 | 10 | 10 | 4210 | 7/ | _ |
| | | OWA | 1696 5 | Base of East Stairwell Okybridge to Cascade | | 11:55 | 2:15 | 140 | 10 | | - | | 2/100 | |
| | | | | | | 11. 33 | 2.15 | 140 | 10 | 10 | 10 | 1400 | 1100 | |
| | | | | | | | | | | | | | | |
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| ount Sam | onle # | | | | | | | | | | 1 | | - | |
| Julit 2811 | ipie # | R | ecount | | | | | - | - | - | _ | | | |

ASBESTOS & OTHER FIBER ANALYSIS BY NIOSH 7400 (PCM)

Attention: Claire Tsai

Client: PBS Engineering and Environmental, Seattle Address: 214 E Galer Street, Suite 300, Seattle, WA 98102 Batch #: 202209966 Job#: 40535.488

Samples: 4

| Pro | ject Location: | Lakewood, V | VA | | | | | | | | | |
|-----|----------------|---|-----------------|----------------------|-------------|--|----|-------------|------|------------|-------------|-------|
| | Sample ID | C1687 | Location | Field Blank | | | | | | | | |
| | Туре | Blank | Activities | | ··········· | ···· | | | | | | |
| | Protection | | Observation | | | | | | | LOQ (MIN | | |
| 1 | Decon | | Worker | SS | TAY | | | Cert | | LOQ (MAX | 4- | |
| | Environment | | | | | | | # | | RL (Fb/cc |) | |
| | Pump # | | StartTime | | | | | | | Fb/Fields | \top | 0 |
| | Date | 5/3/2022 | StartRate | End Time | | | | Min. | | Fb/mm2 | < | 7.00 |
| - | | | Startkate | End Rate | | Ave. Rate | | Liters | | Fb/cc | \top | |
| | Sample ID | C1688 | Location | Field Blank | | | | | | | | |
| | Туре | Blank | Activities | | | | | | | LOQ (MIN) | | |
| | Protection | | Observation | | | | | | | LOQ (MAX | | |
| 2 | Decon | | Worker | SS | 4 | | | Cert | | | + | |
| | Environment | **** | | · | | ······································ | | # | | RL (Fb/cc) | 1 | |
| | Pump# | *************************************** | StartTime | Eud Time | | | | | | Fb/Fields | | 0 |
| | Date | 5/3/2022 | StartRate | End Rate | | Ave, Rate | | Min. | | Fb/mm2 | < | 7.00 |
| | Sample ID | C1689 | Location | Base of East Stairwe | .17 | Ave. Rate | | Liters | | Fb/cc | L | |
| | Туре | н | Activities - | | | | | | | | · · · · · · | |
| i | Protection | | Observation - | | | | | | | LOQ (MIN) | | 0.009 |
| 3 | Decon | **** | Worker | | | | | | | LOQ (MAX) | L | 0.119 |
| | Environment | | | SSN | | ··· | # | ert | | RL (Fb/cc) | l | 0.001 |
| | Pump # | 207017 | | | | | | | | Fb/Fields | | 2 |
| | Date | 5/3/2022 | StartTime 07:1 | | 14:16 | | | Min. | 421 | Fb/mm2 | < | 7.00 |
| | | | StartRate 10 | End Rate | 10 | Ave. Rate | 10 | Liters | 4210 | Fb/cc | ~ | 0.001 |
| ļ | Sample ID | C1690 | Location S | kybridge to cascade | | | | | | | _ | |
| - | Туре | OWA | Activities | | | | | | · | LOQ (MIN) | | 0 |
| - | Protection | | Observation | | | | | | | LOO (MAX) | | 0.028 |
| 4 | Decon | | Worker | SSN | | | Ce | rt | | | | 0.358 |
| Ē | Environment | · · · · · · · · · · · · · · · · · · · | | | | | # | | | RL (Fb/cc) | | 0.002 |
| Γ | Pump # | 1696 | StartTime 11:55 | End Time | 14:15 | | | 200 | | Fb/Fields | | 1 |
| | Date | 5/3/2022 | StartRate 10 | End Rate | 10 | Anna Danka | | Min. | 140 | | < | 7.00 |
| | | | | TAME AND C | 10 | Ave. Rate | 10 | Liters | 1400 | Fb/cc | < | 0.002 |

Blank Ave. (f/mm2): 0.0

Microscope View Area (mm2):0.00785

Effective Filtration Area (mm2):385

Precision:16%+/-

Ассигасу:10%+/-

LOQ: Limits of Quantification; RL: the Reporting Limit

Sampled by: Claire Tsai,

Analyzed by: Cici Xir Reviewed by: Steve (Fanyao) Zhang - President

Date: 5/10/2022

Date: 5/10/2022



PBS Engineering and Environmental Inc. 214 F GALER STREET, SUITE 300 SEATTLE, WA 98102 200 223,939

pbsusa.com

| Project N | ame: Pierce C | .ollege O | lympic Sout | th Abatement and Repairs | | WEAT | HER/TEMP |): | Commo | ents: | | | | |
|-------------|----------------------------------|-----------|-------------|--|------------------|----------------------------------|----------|-------|----------|-----------------|--------|-------|---------|--------|
| | o.: 40535.488 | | | I.H. 3 Peter Stensland | | - | | | | | TAT | , | | |
| Location: | Lakewood, W | /A | | SAMPLE MEDIA/ANALYTICAL METH | OD: NIOSH | 7400 | + | | | 700 | 11/15 | 40 | | a, com |
| Contracto | r: Dickson | | | | | | | | _ | Clai | | bai & |) obsus | a .com |
| Client: DE | | | | | | | | 1 | | - 1001 | org. | | Feet | |
| RELINQU | ISHED BY (SI | GN.): | DATE/TIM | 1E: 5/9/22 | ANALYZE | D BY: | | | DATE/ | TIME: | - | TWA: | | |
| RECEIVED | BY (SIGN.): | \sim | DATE/TIM | 1E: 5/10/72 /3:2- | ANALYZE | D BY: | | | DATE/ | TIME: | | | / | * |
| CODES: | P PERSO IWA INSID OWA OUTS | DE AREA | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABA' EXCURSION CLEARAN | | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | 100 | LOCATION ACTIVITY / PERSON | BLANK AVG | 1 | TIME | TOTAL | | FLOW (L) | | TOTAL | FIB | FIB |
| 5/6/22 | CILAI | B | | Field Blank | | | | THVIL | PICE | PUSI | AVG | VOL | FLD O | СС |
| | 11692 | B | | Field Blank | | | | | | | | | | |
| | C1693 OW | | 1696 | Field Blank Field Blank Outside decon CAS skebridge to | | 9:15 | 1:45 | 270 | 5 | 5 | 5 | 1350 | 3/100 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| Recount Sar | mple # | | Recount | | | | | | 4 | | | | | |
| iccount sai | Tiple W | | Recount | | | | | | | | | | | |

ASBESTOS & OTHER FIBER ANALYSIS BY NIOSH 7400 (PCM)

Attention: Claire Tsai

Client: PBS Engineering and Environmental, Seattle

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Batch #: 202209964 Job#: 40535.488

Samples: 3

| Pro | ject Location: | Lakewood, W | Ά | | | | | | | | | |
|-----|----------------|-------------|-----------------|--|------------|--|--|---------------|-------|------------|---------------|-------|
| | Sample ID | C1691 | Location | Field Blank | | | | | ***** | | | |
| | Type | Blank | Activities | | | ······································ | | • | | LOQ (MIN | $\overline{}$ | |
| | Protection | | Observation | | | | | ~~ | | LOQ (MAX | 4 | |
| 1 | Decon | | Worker | SS | N | | (| Zert . | | RL (Fb/cc) | 4- | |
| | Environment | | | | | | ······································ | | | Fb/Fields | + | |
| | Pump # | | StartTime | End Time | | | | Min. | | Fb/mm2 | - | |
| | Date | 5/5/2022 | StartRate | End Rate | | Ave. Kate | | Liters | | Fb/cc | + | 7.00 |
| | Sample ID | C1692 | Location | Field Blank | | | | | | 1, | <u> </u> | |
| | Туре | Blank | Activities | 7 | | | | | | 1000000 | т- | |
| | Protection | | Observation | ······································ | | | | | | LOQ (MIN) | ╀ | |
| 2 | Decon | | Worker | SSI | NT. | | | eri | | LOQ (MAX) | Ļ | |
| | Environment | | | 291 | ·` | | # | | | RL (Fb/cc) | | |
| | Pump # | | StartTime | F 1m | | | | | | Fb/Fields | | |
| | Date | 5/5/2022 | - | End Time | | | | Min. | | Fb/mm2 | < | 7.00 |
| | | | StartRate | End Rate | | Ave. Rate | | Liters | | Fb/cc | Г | |
| | Sample ID | C1693 | Location (| Outside decon CAS | skbridge t | o olys | | | | | _ | |
| | Туре | OWA | Activities | | | | | · | | LOQ (MIN) | Ι- | 4 |
| | Protection | | Observation | | · | ···· | | · · · · · · · | | LOQ (MAX) | <u> </u> | 0.029 |
| 3 | Decon | | Worker | SSN | • | | Ce | rt | | | <u> </u> | 0.371 |
| | Environment | | | | | | # | | | RL (Fb/cc) | | 0.002 |
| | Pump# | 1696 | StartTime 00:15 | • 173 mt | | | | | | Fb/Fields | | 3 |
| | Date | 5/5/2022 | | | 13:45 | | | Min. | 270 | Fb/mm2 | < | 7.00 |
| | | 0/0/2022 | StartRate 5 | End Rate | 5 | Ave. Rate | 5 | Liters | 1350 | .Fb/cc | < | 0.002 |

Blank Ave. (f/mm2): 0.0

Microscope View Area (mm2):0.00785

Effective Filtration Arca (mm2):385

Precision:16%+/-

Accuracy:10%+/-

LOQ: Limits of Quantification; RL: the Reporting Limit

Sampled by: Claire Tsai

Analyzed by: Cici Xy

Reviewed by: Steve (Fanyao) Zhang - President

Date: 5/10/2022

Date: 5/10/2022

202209961



PBS Engineering and Environmental Inc. 214 E GALER STAELT, SUITE 300 SCATILE, WA 98102 306-231-939

pbsusa.com

| Project Na | ame: Pierce C | ollege O | lympic Sou | th Abatement and Repairs | | WEATH | ER/TEMP | : | Comme | ents: | | | | |
|------------|---|----------|------------|---|------------------|----------------------------------|---------|--------|----------|-----------------|---------------------------------|-----------------------|-------|-----|
| Project No | o.: 40535.488 | | | I.H. Peter Stonsland | | | 1 | | | | | AT | | |
| | Lakewood, W | /A | | SAMPLE MEDIA/ANALYTICAL METH | OD: NIOSH | 7400 | 1 | | | Resu | its . | 10: | | |
| Contracto | r: Dickson | | | | | | 1 | | | Clair | V (L) TOTAL FIB OST AVG VOL FLD | | com | |
| Client: DE | CONTRACTOR OF THE PARTY OF THE | | | | | | | | | | | | | |
| Clar | ISHED BY (SI | Mi | | 5/9/22 | ANALYZE | D BY: | | | DATE/ | TIME: | | TWA: | 3 | ** |
| | BY (SIGN.): | | DATE/TIN | 1E: 4/10/12 3.20 | ANALYZE | D BY: | | | DATE | TIME: | | | | |
| CODES: | IWA INSIDE AREA OWA OUTSIDE AREA | | | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABA' EXCURSION CLEARAN | NC | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK | TIME | TIME | TOTAL | | FLOW (L) | | and the second second | | FIB |
| 5/6/22 | C1694 | B | / | Field Blank | | | 0,1 | Tilvik | FRE | FOST | AVG | VOL | - | cc |
| | C1695 | B | / | Field Blank | | | | | | | | | | |
| | C1696 | AWO | 1696 | Outside Decon Cas Skybride to OLYS | | 8:15 | 2:15 | 360 | 5 | 5 | 5 | 1800 | 3/100 | |
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| Recount Sa | unt Sample # Recount | | | | | | | | | | | | 1 | |

ASBESTOS & OTHER FIBER ANALYSIS BY NIOSH 7400 (PCM)

Attention: Claire Tsai

Client: PBS Engineering and Environmental, Scattle Address: 214 E Galer Street, Suite 300, Seattle, WA 98102 Batch #: 202209961 Job#: 40535.488

Samples: 3

| Pro | ject Location: | Lakewood, W | A | | | | | | | | | |
|-----|----------------|--------------|---------------|---------------------|-------------|-----------|-----------|---|--------------|------------|----------|-------|
| | Sample ID | C1694 | | Field blank | | ····· | | | | | | |
| | Туре | Blank | Activities | | | | | | | LOQ (MIN | | |
| | Protection | | Observation | | | | | | ~ | LOQ (MAX | | |
| 1 | Decon | | Worker | SS | SN | | | ert | | RL (Fb/cc) | | |
| | Environment | | | | | | —— " | · | | Fb/Fields | + | 0 |
| | Pump # | | StartTime | End Time | | | | Min. | | Fb/mm2 | - | |
| | Date | 5/6/2022 | StartRate | End Rate | | Ave. Rate | | Liters | | Fb/cc | f | 7.00 |
| | Sample ID | C1695 | Location | Field blank | | | | *************************************** | | <u> </u> | | |
| | Туре | Blank | Activities | | | | | | | LOQ (MIN) | т- | |
| | Protection | | Observation | | | | | | | | ļ | |
| 2 | Decon | | Worker | SS | N . | | Ç | ert | | LOQ (MAX) | \vdash | |
| | Environment | | | | ·` | | # | | | RL (Fb/cc) | L | |
| | Pump # | | StartTime | End Time | | | | | | Fb/Fields | L | O |
| | Date | 5/6/2022 | StartRate | | | | | Min. | | Fb/mm2 | < | 7.00 |
| | | | | End Rate | | Ave. Rate | | Liters | | Fb/cc | | |
| | Sample ID | C1696 | Location | Outside decon cas s | kybridge t | o olys | | | | | | |
| | Туре | OWA | Activities | | | | | | | LOQ (MIN) | | 0.021 |
| | Protection | | Observation | | | | | | | LOQ (MAX) | ┝ | 0.278 |
| 3 | Decon | | Worker | SSI | 1 | Cert | | | | RL (Fb/cc) | _ | 0.001 |
| | Environment | | | | | | # | | | | | |
| | Pump# | 1696 | StartTime 08: | 5 End Time | 14:15 | | | Min. | -6- | Fb/Fields | | 3 |
| | Date | 5/6/2022 | StartRate 5 | • | 5 | Ave. Rate | _ | | 360 | | < | 7.00 |
| | | ···· | | Situ Mile | 5 | ave. Kate | 5 | Liters | 1800 | Fb/cc | < | 0.001 |

Blank Ave. (f/mm2): 0.0

Microscope View Area (mm2):0.00785

Effective Filtration Area (mm2):385

Precision:16%+/-

Accuracy:10%+/-

LOQ: Limits of Quantification; RL: the Reporting Limit

Sampled by: Claire Tsai

Analyzed by: Cici Xu

Reviewed by: Steve (Fanyaq) Zhang President

Date: 5/10/2022

Date: 5/10/2022



PBS Engineering and Environmental Inc. 214 E GALER STREET, SHITE HOD SEATTLE, WA 98102 206 233 939

| Project N | ame: Pierce (| College O | lympic Sou | th Abatement and Repairs | | WEATH | IER/TEME |): | Comm | ents: | | | | | | | |
|------------|--|-----------|------------|-----------------------------------|------------------|---------------------------------|----------|--|-------|-------|--------|------|---|------|--|--|--|
| | o.: 40535.488 | | | I.H. Peter Stansland | | | | | | 1 | | | | | | | |
| Location: | Lakewood, W | VA. | | SAMPLE MEDIA/ANALYTICAL METH | OD: NIOSH | 7400 | | / | | 1 | | | | | | | |
| Contracto | or: Dickson | | | | | | | DATE/TIME: GBA GLOVE BAG AREA H HEPA PLE TOTAL FLOW (L) TOTAL FIB FIB TIME PRE POST AVG VOL FLD CC 9/100 | | | | | | | | | |
| Client: DE | S | | | | | | | / | | | | | | | | | |
| | ISHED BY (S | | DATE/TII | ME: | ANALYZE | D BY: | iles | Si | DATE/ | TIME: | | TWA: | | | | | |
| | BY (SIGN.): | | DATE/TIN | ΛE: | ANALYZE | D BY: | - | 7000 | | | | | | | | | |
| CODES: | P PERSO IWA INSIE OWA OUTS | DE AREA | A | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABA EXCURSION CLEARAN | NC | I F | | | BAG AR | EA | | | | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | | | | | | | | | |
| 5/9/22 | C1697 | B | / | Field Blank | %00 | | Orr | TIME | PRE | POST | AVG | VOL | - | СС | | | |
| | 01698 | B | / | Field Blank | 1 | | | | | | | | | | | | |
| | the state of the s | | 1696 | Sky Bridge to CAS near decon | 1 | 145 | 225 | 400 | 5 | 5 | 5 | 2000 | | .003 | | | |
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PBS Engineering and Environmental Inc. 214 E GALER STREET, SUITE 300 SEATTLE, WA 98102 206,233,939

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| Project N | ame: Pierce C | ollege O | lympic Sou | th Abatement and Repairs | | | WEATH | IER/TEME |): | Comm | ents: | | | |
|------------|----------------------------------|----------|------------|--|------------------|----------------------------------|-------|----------|----------|-----------------|--|-------|---------|------|
| | o.: 40535.488 | | | I.H. Peter Stevislan | 4 | | 1 | | | | | | | |
| Location: | Lakewood, W | /A | | SAMPLE MEDIA/ANALYTICAL METH | IOD: NIOSH 7 | 400 | 1 | | | 1 | | | | |
| Contracto | r: Dickson | | | | | | | | | | | | | |
| Client: DE | S | | | | | | / | | | | 1 | | | |
| | ISHED BY (SI | | DATE/TII | ME: | ANALYZEI | D BY: //// | ild ! | Mui | DATE/ | TIME: | ld | TWA: | | |
| | BY (SIGN.): | | DATE/TII | ME: | ANALYZE | BY: | - Jou | | DATE/ | | 1-1 | / | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | A | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | F | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | PRE | FLOW (L) | the state of the s | TOTAL | FIB | FIB |
| 5/12/22 | C1703 | B | / | Field Blank | 0/100 | | 9.1 | THVIL | FRE | POST | AVG | VOL | %00 | СС |
| | C1704 | B | / | | | | 7 | | | | | | 0/100 | |
| | C1705 | AMO | 1696 | Field Blank Skybridge to CAS To decon | 1 | 734 | 157 | 383 | 5 | 5 | 5 | 1915 | 5.5/100 | .001 |
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| lecount Sa | mple # | | Recount | | 1 | | | | | | | | | |



PBS Engineering and Environmental Inc. 214 E GALEN STREET, SWITE 300: SEATTLE, WA 98102 206,233,939

pbsusa.com

| Project Na | ame: Pierce C | ollege O | lympic Sou | th Abatement and Repairs | | | WEATH | HER/TEMP | · · | Comm | ents. | | | FIB CC ,OU4 |
|------------|----------------------------------|----------|------------|-----------------------------------|------------------|---------------------------------|-------|----------|----------|-----------------|--------|-------|-----------|-------------------|
| | o.: 40535.488 | | | I.H. Peter Stensland | | | | | | | ants. | | | |
| Location: | Lakewood, W | Α | | SAMPLE MEDIA/ANALYTICAL METI | HOD: NIOSH | 7400 | | | | | | | | |
| Contracto | r: Dickson | | | | | | | | | | | _ | | |
| Client: DE | 5 | | | | | | | | | | | | | |
| | SHED BY (SI | Y | DATE/TII | ME: | ANALYZE | D BY: | wat 8 | MI. | DATE/ | TIME: | 119 | TWA: | | |
| | BY (SIGN.): | | DATE/TII | ME: | ANALYZE | D BY: | my O | 000 | DATE/ | | 11- | - | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | 1 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABA EXCURSION CLEARAN | NC | LF | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | PRE | FLOW (L) | | TOTAL | FIB | |
| 5/13/74 | C1706 | 8 | / | Field Blank | %00 | | | THE | FRE | POSI | AVG | VOL | FLD 9/100 | СС |
| | C1707 | B | | Field Blank | 1 | | | | | | | | %100 | |
| | C1708 | ANO | 1696 | Sky Bidg to CAS near decor | . 1 | 1132 | 1415 | 165 | 5 | 5 | 5 | 815 | 4100 | .004 |
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| ecount Sar | mple # | F | Recount | | | | | | | | | | | |



PBS Engineering and Environmental Inc. 214 E BALER STREET, SUITE 300 SEATTLE, WA 98102 206.233,939

pbsusa.com

| Project Na | ame: Pierce C | College O | lympic Sou | th Abatement and Repairs | | | WEATH | ER/TEMP | : | Comme | ents: | _ | | |
|-------------|----------------------------------|-----------|------------|---|------------------|----------------------------------|-------|---------|----------|-----------------|--------|-------|-------|------|
| Project No | o.: 40535.488 | | | I.H. Peter Stansland | | | 1 | | | | | | | |
| Location: | Lakewood, W | /A | | SAMPLE MEDIA/ANALYTICAL METHO | OD: NIOSH | 7400 | 1 | / | | | | | | |
| Contracto | r: Dickson | | | | | | / | | | | | | | |
| Client: DES | | | | | | | - | | | | / | | | |
| RELINQUI | SHED BY (S | IGN.): | DATE/TI | ME: | ANALYZE | D BY: | min. | / hi | DATE/ | TIME: | | TWA: | - | |
| | BY (SIGN.): | | DATE/TIM | ME: | ANALYZE | D BY: | muy | Jun | DATE/ | ГІМЕ: | | 1 | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | N | LE | GBA H | GLOVE E HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | PRE | FLOW (L) | | TOTAL | FIB | FIB |
| 5116122 | -C1709 | B | / | Field Blank | 0/100 | - | GIT | THVIE | PRE | POST | AVG | VOL | %100 | СС |
| | C1710 | B | | | | | | | | | | _ | %100 | _ |
| | CITH | OWA | 1696 | Skybridge to CAS near decon | V | 722 | 217 | 355 | 5 | 5 | 5 | 1775 | 8/100 | .002 |
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PBS Engineering and Environmental Inc. 214 F BALER STREET, SUITE 3(81) SHATTE, WA 98102 206 233 939

pbsusa.com

| Project Na | ame: Pierce C | ollege O | lympic Sou | th Abatement and Repairs | | | WEATH | IER/TEMF |): | Commo | ents: | _ | _ | |
|-------------|----------------------------------|----------|------------|-----------------------------------|------------------|----------------------------------|-------|----------|----------|-----------------|--------|-------|-------|------|
| Project No | o.: 40535.488 | | | I.H. Peter Stansland | | _ | 1 | | | A 8/11/20 | | | | |
| Location: | Lakewood, W | 'A | | SAMPLE MEDIA/ANALYTICAL METI | HOD: NIOSH 7 | 400 | 1 | | | 1 | | | | |
| Contracto | r: Dickson | | | | | | / | | | | | | | |
| Client: DE: | 5 | | | | | | / | | | | | | | |
| 100 | ISHED BY (SI | Y 20' - | DATE/TI | ME: | ANALYZEI | BY: | ulla | Con. | DATE/ | TIME: | ria | TWA: | | / |
| | BY (SIGN.): | | DATE/TII | ME: | ANALYZEI | BY: | 1 | 9 | DATE/ | TIME: | 7-1 | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSION CLEARAN | NC | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | PRE | FLOW (L) | | TOTAL | FIB | FIB |
| 511112 | CITIZ | B | / | Red Blank | 0/100 | | | | 7 102 | rosi | AVG | VOL | %00 | СС |
| | C1713 | B | | Field Blank | | | | | | | | | %100 | |
| | C1714 | OWA | 1696 | Skybridge to CAS near decon | 1 | 702 | 216 | 374 | 5 | 5 | 5 | 1870 | 10.61 | .003 |
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| Recount Sa | mple # | | Recount | | | | | | 1 1 | 1 | | | | |





PBS Engineering and Environmental Inc.
214 COALH STREET, SHITE BIM SERTILE, WASHIOZ 2005.133 249

pbsusa.com

| Abatement a | | ege Olyn | npic South | I.H. Claire Tsai SAMPLE MEDIA/ANALYTICAL | METHOD: | | E . | IER/TEMP : 50s/60s | | Commo Results | by EOI | | 1 | 1- 10-1 -10-10-10-10-10-10-10-10-10-10-10-10-10- |
|---|----------------------------------|---------------------------------------|---|--|------------------|---------------------------------|-------------|-----------------------|-----------|------------------|--------|--------------------------|---------------------------------------|---|
| Location: Oly | | · · · · · · · · · · · · · · · · · · · | • | NIOSH METHOD 7402 - Labco | | | | | | | | esults to igh@pbsusa. | com | |
| Contractor: N | I/A | | | | | | | | | | | osusa.com | | |
| Client: DES | | | | | | | | | | İ . | | | | |
| RELINQUISH | IED BY (SIGN | l.): | DATE/TIME | : 5/24/2022 | ANALYZE | D BY: | | | DATE/ | TIME: | | TWA: | | • |
| RECEIVED BY | - | | DATE/TIME 5/24 | 17:30 | ANALYZE | D BY: | • | | DATE/1 | TIME: | • | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | \ | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARAN | N | LE | GBA H | GLOVE HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | PRE | FLOW. | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 5/24/2022 | G1715 | . C | . HV106 | East Stairwell level 2/3 duct removal | | · 1:18 | 3:20 | 132 | 10 | 10 | 10 | 1320 | FLD | 1 |
| 5/24/2022 | C1716 | В | NA · | Field Blank | | _ | | | | | | 1320 | | |
| 5/24/2022 | C1717 | В | NA | Field Blank | | | | - | | - | _ | - | | |
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| - 111 - 11 - 11 - 11 - 11 - 11 - 11 - | | | *************************************** | | | | · · | | | | | | | |
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| | | | | | | <u> </u> | | | sults Rek | | | | | |
| | | | | *************************************** | | | | ra in | v Verb | ased | | mail | | ļ <u>.</u> |
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Report Number: 220531R01

Report Date: 5/25/2022

NIOSH 7402 - TEM - Direct Report

Job Number: 220531

Client: PBS Engineering + Environmental

Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535.488

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Sampled: | Date Received: |
|--------------|----------------------|---------------------------|----------------|------------------|-------------------|
| 220531 - S1 | C1715 | NIOSH 7402 - TEM - Direct | | 5/24/2022 | 5/24/2022 |
| 220531 - S2 | C1716 | NIOSH 7402 - TEM - Direct | *** | 5/24/2022 | 5/24/2022 |
| 220531 - S3 | C1717 | NIOSH 7402 - TEM - Direct | | 5/24/2022 | 5/24/2022 |

NIOSH 7402 -

Preparation and analysis of the above samples was conducted in accordance with the NIOSH method 7402 for the identification TEM - Direct of asbestos. The samples were collapsed with dimethylformamide (DMF) / acetic acid, carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification of 900x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

Shauna Bjornso

Analyst



NIOSH 7402 - TEM - Direct Rapid Summary - Final Report

Job Number: 220531

SEA

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Report Number: 220531R01 Date Received: 5/24/2022

| Lab/Cor Sample No. | Client Sample No. | Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count ¹ Prim/Total | Analytical Sens. |
|-----------------------|-------------------|-------------------|-----------------------------------|--|---|---------------------|
| S1 | C1715 | NIOSH ASBESTOS | < 0.001 | | Prim/Total | (fiber/cc): |
| | | MICON AGELSTOS | < 0.001 | 0 - 0.003 - Poisson | 0 | 0.00069 |
| S2 | C1716 | MOON AGENCE | | | | |
| 52 | 37710 | NIOSH ASBESTOS | Not Applicable | Not Applicable | 0 | NA |
| S3 | C1717 | | | | | |
| | 01/1/ | NIOSH ASBESTOS | Not Applicable | Not Applicable | 0 | NA |

Reviewed by:

Shauna Bjornso

Analyst

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str = 0, 1 str = 1, 2 str = 2, 3 str = 3

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



NIOSH 7402 - TEM - Direct Summary Data -**Final Report**

Job Number: 220531

SEA

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Report Number: 220531R01 Date Received: 5/24/2022

Lab/Cor Sample No.: S1

Analyst(s)

SB

Client Sample No.: C1715

Analysis Date

5/25/2022

Microscope

JEOL-Sr 1200

Magnification 1200

Volume (L): 1320

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 40

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.424 Analytical Sens. (fiber/cc): 0.00069

| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count ⁱ Prim/Total |
|-----------------------------|-----------------------------------|--|---|
| NIOSH ASBESTOS | < 0.001 | 0 - 0.003 - Poisson | |
| NIOSH NonASBESTOS | 0.003 | 0.001 - 0.007 - Poisson | - |
| NIOSH Libby-Other Amphibole | < 0.001 | 0 - 0.003 - Poisson | |
| NIOSH Total Fibers | 0.003 | 0.001 - 0.007 - Poisson | - 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Analyst(s)

SB

Client Sample No.: C1716

Analysis Date 5/25/2022

Microscope JEOL-Sr 1200 Magnification 1200

Volume (L): 0 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 40

Average Grid Opening Area: 0.0106 Area Analyzed (mm2): 0.424

Analytical Sens. (fiber/cc): NA

| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count ⁱ Prim/Tolal |
|-----------------------------|-----------------------------------|--|---|
| NIOSH ASBESTOS | Not Applicable | Not Applicable | - |
| NIOSH NonASBESTOS | Not Applicable | Not Applicable | - 1 |
| NIOSH Libby-Other Amphibole | Not Applicable | Not Applicable | - |
| NIOSH Total Fibers | Not Applicable | Not Applicable | 1 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



NIOSH 7402 - TEM - Direct Summary Data - Final Report

Job Number: 220531

SEA

Client: PBS Engineering + Environmental

Report Number: 220531R01

Lab/Cor Sample No.: S3

Client Sample No.: C1717

Volume (L): 0

Analyst(s) Anal

SB

Analysis Date 5/25/2022

Microscope JEOL-Sr 1200 Magnification 1200 Lab Filter Area (mm2): 385 Grid Openings Analyzed: 40

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.424

Analytical Sens. (fiber/cc): NA

| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count ^t Prim/Total |
|-----------------------------|-----------------------------------|--|---|
| NIOSH ASBESTOS | Not Applicable | Not Applicable | 0.1 |
| NIOSH NonASBESTOS | Not Applicable | Not Applicable | 1 |
| NIOSH Libby-Other Amphibole | Not Applicable | Not Applicable | 0 |
| NIOSH Total Fibers | Not Applicable | Not Applicable | 1 |

1 Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

Shauna Bjornson

Analyst

^{*}One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



NIOSH 7402 - TEM - Direct Raw Data -**Final Report**

Job Number: 220531

SEA

NIOSH 7402

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Report Number: 220531R01 Date Received: 5/24/2022

Project No.: 40535.488

Lab/Cor Sample No: S1

| Asbestos Organic NIOS | |
|--|------------------------|
| Second Part | ategories |
| G1 | ategories |
| Second S | |
| Column | H_NAM, H_Total |
| S | -I_NAM, -H_Total |
| G1 6 F41 NSD G1 7 F42 NSD G1 8 G41 NSD G1 9 G42 NSD G1 10 H41 NSD G1 11 C24 NSD G1 11 C24 NSD G1 12 E23 NSD G1 13 E24 NSD G1 14 F23 NSD G1 15 F24 NSD G1 16 G23 NSD G1 17 G24 NSD G1 18 E34 NSD G1 18 E34 NSD G1 19 F33 NSD G1 19 F33 NSD G2 21 C51 NSD G2 22 C52 NSD G2 22 C52 NSD G2 24 E52 NSD G2 24 E52 NSD G2 27 G51 NSD G3 NSD G3 NSD G4 NSD G5 NSD G6 NSD G6 NSD G6 NSD G7 NSD G7 NSD G8 NSD G9 NSD | -I_NAM, H_Total |
| G1 8 G41 NSD G1 9 G42 NSD G1 10 H41 NSD G1 11 C24 NSD G1 11 C24 NSD G1 12 E23 NSD G1 13 E24 NSD G1 14 F23 NSD G1 15 F24 NSD G1 16 G23 NSD G1 17 G24 NSD G1 18 E34 NSD G1 19 F33 NSD G1 19 F33 NSD G1 19 F33 NSD G2 21 C51 NSD G2 22 C52 NSD G2 22 C52 NSD G2 22 C52 NSD G3 25 F51 NSD G4 E52 NSD G5 | |
| G1 9 G42 NSD G1 10 H41 NSD G1 11 C24 NSD G1 12 E23 NSD G1 13 E24 NSD G1 14 F23 NSD G1 15 F24 NSD G1 16 G23 NSD G1 17 G24 NSD G1 18 E34 NSD G1 19 F33 NSD G1 19 F33 NSD G2 21 C51 NSD G2 22 C52 NSD G2 24 E52 NSD G2 25 F51 NSD G2 27 G51 NSD G2 29 H51 NSD G3 NSD G3 NSD G4 NSD G5 NSD G6 NSD G6 NSD G7 NSD G7 NSD G8 NSD G9 NSD | |
| G1 10 H41 NSD G1 11 C24 NSD G1 12 E23 NSD G1 13 E24 NSD G1 14 F23 NSD G1 15 F24 NSD G1 16 G23 NSD G1 17 G24 NSD G1 18 E34 NSD G1 19 F33 NSD G1 19 F33 NSD G2 21 C51 NSD G2 22 C52 NSD G2 24 E52 NSD G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non None Possible Organic NIOSH NIOSH G2 28 G52 NSD G2 29 H51 NSD | |
| G1 11 C24 NSD G1 12 E23 NSD G1 13 E24 NSD G1 14 F23 NSD G1 15 F24 NSD G1 16 G23 NSD G1 17 G24 NSD G1 18 E34 NSD G1 19 F33 NSD G1 19 F33 NSD G2 21 C51 NSD G2 22 C52 NSD G2 23 E51 NSD G2 24 E52 NSD G2 25 F51 NSD G3 26 F52 NAS 4 Fiber 5.5 1 5.5 Non None Possible Organic NIOSH NIOSH G3 28 G52 NSD G3 29 H51 NSD | |
| G1 12 E23 NSD G1 13 E24 NSD G1 14 F23 NSD G1 15 F24 NSD G1 16 G23 NSD G1 17 G24 NSD G1 18 E34 NSD G1 19 F33 NSD G1 19 F33 NSD G1 20 F34 NSD G2 21 C51 NSD G2 22 C52 NSD G3 24 E52 NSD G4 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non None Possible NIOSH NIOSH STructure G2 29 H51 NSD G3 29 H51 NSD | |
| G1 13 E24 NSD G1 14 F23 NSD G1 15 F24 NSD G1 16 G23 NSD G1 17 G24 NSD G1 18 E34 NSD G1 19 F33 NSD G1 20 F34 NSD G2 21 C51 NSD G2 22 C52 NSD G2 23 E51 NSD G2 24 E52 NSD G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non None Possible NIOSH NIOSH Structure G2 29 H51 NSD G2 29 H51 NSD | |
| G1 14 F23 NSD G1 15 F24 NSD G1 16 G23 NSD G1 17 G24 NSD G1 18 E34 NSD G1 19 F33 NSD G1 20 F34 NSD G2 21 C51 NSD G2 22 C52 NSD G2 23 E51 NSD G2 24 E52 NSD G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non None Possible NIOSH G2 27 G51 NSD G3 28 G52 NSD G3 29 H51 NSD | |
| G1 15 F24 NSD G1 16 G23 NSD G1 17 G24 NSD G1 18 E34 NSD G1 19 F33 NSD G1 20 F34 NSD G2 21 C51 NSD G2 22 C52 NSD G2 23 E51 NSD G2 24 E52 NSD G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non None Possible NIOSH NIOSH G2 27 G51 NSD G2 28 G52 NSD G3 29 H51 NSD | |
| G1 16 G23 NSD G1 17 G24 NSD G1 18 E34 NSD G1 19 F33 NSD G1 20 F34 NSD G2 21 C51 NSD G2 22 C52 NSD G2 23 E51 NSD G2 24 E52 NSD G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non None Possible NIOSH NIOSH Structure G2 28 G52 NSD G2 28 G52 NSD G3 29 H51 NSD | |
| G1 17 G24 NSD G1 18 E34 NSD G1 19 F33 NSD G1 20 F34 NSD G2 21 C51 NSD G2 22 C52 NSD G2 23 E51 NSD G2 24 E52 NSD G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non None Possible Organic NIOSH NIOSH Structure G2 27 G51 NSD G2 28 G52 NSD G3 29 H51 NSD | |
| G1 18 E34 NSD G1 19 F33 NSD G1 20 F34 NSD G2 21 C51 NSD G2 22 C52 NSD G2 23 E51 NSD G2 24 E52 NSD G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non None Possible NIOSH NIOSH Structure G2 27 G51 NSD G2 28 G52 NSD G3 29 H51 NSD | |
| G1 19 F33 NSD G1 20 F34 NSD G2 21 C51 NSD G2 22 C52 NSD G2 23 E51 NSD G2 24 E52 NSD G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non None Possible NIOSH Asbestos Structure G2 27 G51 NSD G2 28 G52 NSD G3 29 H51 NSD | |
| G1 20 F34 NSD G2 21 C51 NSD G2 22 C52 NSD G2 23 E51 NSD G2 24 E52 NSD G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non Asbestos Structure None Organic NIOSH NIOSH G2 27 G51 NSD NSD G2 28 G52 NSD G2 29 H51 NSD | |
| G2 21 C51 NSD G2 22 C52 NSD G2 23 E51 NSD G2 24 E52 NSD G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non None Possible Organic NIOSH Structure G2 C7 G51 NSD G2 28 G52 NSD G3 29 H51 NSD | |
| G2 22 C52 NSD G2 23 E51 NSD G2 24 E52 NSD G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non None Asbestos Structure NIOSH | |
| G2 23 E51 NSD G2 24 E52 NSD G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non Asbestos Structure G2 27 G51 NSD G2 28 G52 NSD G2 29 H51 NSD | |
| G2 24 E52 NSD G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non Asbestos Structure G2 27 G51 NSD G2 28 G52 NSD G2 29 H51 NSD | |
| G2 25 F51 NSD G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non Asbestos Structure None Possible Organic NIOSH NIOSH G2 27 G51 NSD NSD G2 28 G52 NSD G2 29 H51 NSD | |
| G2 26 F52 NAS 4 Fiber 5.5 1 5.5 Non Asbestos Structure None Organic NIOSH NIOS | |
| G2 27 G51 NSD G2 28 G52 NSD G2 29 H51 NSD | |
| G2 27 G51 NSD G2 28 G52 NSD G2 29 H51 NSD | _NAM, _Total |
| G2 29 H51 NSD | |
| 1100 | |
| G2 30 H52 NSD | |
| | |
| G2 31 K51 NSD | |
| G2 32 C42 NSD | |
| G2 33 E41 NSD | |
| G2 34 E42 NSD | |
| G2 35 F41 NSD | |
| G2 36 F42 NSD | |



NIOSH 7402 - TEM - Direct Raw Data -Final Report NIOSH 7402

Job Number: 220531

SEA

Client: PBS Engineering + Environmental

Report Number: 220531R01

Date Received: 5/24/2022

Project Name: Pierce College Olympic South Abatement and Repairs

Lab/Cor Sample No: S1 Client Sample No: C1715

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|-------------|-------------|------------------|
| G2 | 37 | G41 | | | NSD | | | • | | | - Commont | Oddit Odlegolles |
| G2 | 38 | G42 | | | NSD | | | | | | | |
| G2 | 39 | H41 | ~ | | NSD | | | | | | | |
| G2 | 40 | H42 | | | NSD | | | | | | | |



Job Number: 220531

SEA

Client: PBS Engineering + Environmental

Report Number: 220531R01

Project Name: Pierce College Olympic South Abatement and Repairs

Date Received: 5/24/2022

Lab/Cor Sample No: S2 Client Sample No: C1716

| G1 G1 | 1 2 3 4 5 6 | B43 B44 C43 C44 | NAS | Prim | Class NSD | -3-7 | | | Analyte | Elements | Comment | Count Categories |
|----------|----------------------------|--------------------------|-----|------|--------------|------|------|----|--|---|---|---|
| G1 G1 | 3 4 5 | C43 | NAS | | | | | | | | | |
| G1 | 4 5 | | NAS | | NSD | | | | | | | |
| G1 | 5 | C44 | NAS | | NSD | | | | | | | |
| | | | | 1 | Fiber | 10.5 | 0.75 | 14 | Non Asbestos Structure | None | Possible Organic | NIOSH_NAM, NIOSH_Total |
| G1 | 6 | E43 | | | NSD | | | | | ······································ | | ** |
| | | E44 | | | NSD | | | | | | | |
| | 7 | F43 | | | NSD | | | | | ***************** | | - |
| | 8 | F44 | | | NSD | | | | | | *************************************** | |
| | 9 | G43 | | | NSD | | | | | | | |
| | 10 | G44 | | | NSD | | | | | | | |
| | 11 | B32 | | | NSD | | | | | | | |
| | 12 | C31 | | | NSD | | | | | | | |
| | 13 | C32 | | | NSD | | | | | *** | | |
| | 14 | E31 | | | NSD | | | | · | | | |
| | 15 | E32 | | | NSD | | | | | ···· | | |
| | 16 | F31 | | | NSD | | | | | | | |
| | 17 | F32 | | | NSD | | | | | | | |
| | 18 | G31 | | | NSD | | | | | | | |
| | 19 | G32 | | | NSD | | | | **** | | | ··· |
| | 20 | H31 | | | NSD | | | | | | | *** |
| | 21 | B34 | | | NSD | | | | | | *************************************** | *************************************** |
| | 22 | C33 | | | NSD | | | | - | | | |
| | 23 | C34 | | | NSD | | | | - | | | |
| | 24 | E33 | | | NSD | | | | ··· | | | |
| G2 2 | | E34 | | | NSD | | | | | | | |
| G2 2 | | F33 | | | NSD | | | | | *************************************** | | |
| G2 2 | | G34 | | | NSD | | | | | *************************************** | | |
| G2 28 | | H34 | | | NSD | | | | | | | |
| G2 29 | | H44 | | | NSD | | | | | | | |
| G2 30 | | G44 | | | NSD | | | | | · · · · · · · · · · · · · · · · · · · | | |
| G2 31 | | G43 | | | NSD | | | | | | | |
| G2 32 | | F44 | | | NSD | | | | | | | |
| G2 33 | | F43 | | | NSD | | | | | · · · · · · · · · · · · · · · · · · · | | |
| G2 34 | | E44 | | | NSD | | | | | *************************************** | ···· | |
| G2 35 | | C44 | | | NSD | | | | | | | |
| G2 36 | | C43 | | | NSD | | | | * | | | |
| G2 37 | | F53 | | | NSD | | | | | | | |
| G2 38 | | F54 | | | NSD | | | | | | | |
| G2 39 | | G54 | | | NSD | | | | | | | |
| G2 40 |) (| H53 | | | NSD | | | | ······································ | | | |



Job Number: 220531

SEA

NIOSH 7402

Client: PBS Engineering + Environmental

Report Number: 220531R01

Project Name: Pierce College Olympic South Abatement and Repairs

Date Received: 5/24/2022

Lab/Cor Sample No: S3 Client Sample No: C1717

| | Cilen | t Sample | No: CT | /1/ | | | | | | | | | |
|-----|-------|----------|--------|------|--------|-------|-------------|-------|-------------|---------------------------------------|---|--|---------------------------------------|
| Gr | No. | Loc. | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| _G1 | 1 | B44 | | | | NSD | | | | | | | out outegoiles |
| G1 | 2 | C43 | | | | NSD | | | | | · · · · · · · · · · · · · · · · · · · | | |
| G1 | 3 | C44 | | | | NSD | | | | | | | |
| G1 | 4 | E43 | | | | NSD | | | **** | | | | |
| _G1 | 5 | E44 | | | | NSD | | | | | | | |
| G1 | 6 | F43 | NAS | 1 | | Fiber | 15 | 4.5 | 3.3 | Non Asbestos Structure | None | Possible Organic | NIOSH_NAM, NIOSH_Total |
| G1 | 7 | F44 | | | | NSD | | | | Ciraciare | | | |
| G1 | 8 | G43 | | | | NSD | | | | | | | |
| G1 | 9 | G44 | | | | NSD | | | | | | | |
| G1 | 10 | H43 | ··· | | | NSD | | | | | ···· | ···· | |
| G1 | 11 | H44 | | | | NSD | | | | | | | |
| G1 | 12 | E24 | | | | NSD | | | | | | | |
| G1 | 13 | F23 | | | | NSD | | | | | | | |
| G1 | 14 | F24 | | | | NSD | | | | | | | |
| G1 | 15 | G23 | | | | NSD | | | | | | | |
| G1 | 16 | G24 | | | | NSD | | | | | | | |
| G1 | 17 | H23 | | | | NSD | | | | | ······································ | | |
| G1 | 18 | H24 | | | | NSD | | | | | | | |
| G1 | 19 | F32 | | | | NSD | | | | · | | | |
| G1 | 20 | G32 | | | | NSD | | | | | | | |
| G2 | 21 | B43 | | | | NSD | | | | | | | |
| G2 | 22 | B44 | | | | NSD | | | | | | | |
| G2 | 23 | C44 | | | | NSD | | | | | | | |
| G2 | 24 | E43 | | | | NSD | | | | | | | |
| G2 | 25 | E44 | | | | NSD | | | | | | | |
| G2 | 26 | F43 | | | | NSD | | | | · · · · · · · · · · · · · · · · · · · | | | |
| G2 | 27 | F44 | | | | NSD | | | | | | | |
| G2 | 28 | G43 | | | | NSD | | | | | *************************************** | | |
| G2 | 29 | G44 | | | | NSD | | | | | | | |
| G2 | 30 | H43 | | | | NSD | | | | **** | | | · · · · · · · · · · · · · · · · · · · |
| G2 | 31 | B32 | | | | NSD | | | | | | | |
| G2 | 32 | C31 | | | | NSD | | | | | | · · · · · · · · · · · · · · · · · · · | |
| G2 | 33 | C32 | | | | NSD | | | | | | | |
| G2 | 34 | E31 | | | | NSD | | | | | | | |
| G2 | 35 | E32 | | | | NSD | | | | | | | |
| G2 | 36 | F31 | | | | NSD | | | | | · | | ** |
| G2 | 37 | F32 | | | | NSD | | | | | | | |
| G2 | 38 | G32 | | | | NSD | | | | | | | |
| G2 | 39 | F24 | | | 7-7-7- | NSD | | | | | | ······································ | 7.1. |
| G2 | 40 | G24 | | | | NSD | | | | · | | | |
| | | | | | | | | | | | | | |



NIOSH 7402 - TEM - Direct Raw Data - Final Report

Job Number: 220531

SEA

NIOSH 7402

Client: PBS Engineering + Environmental

Report Number: 220531R01

Project Name: Pierce College Olympic South Abatement and Repairs

NIOSH Total Fibers

Date Received: 5/24/2022

Count Categories

NIOSH_Total

NIOSH_ASB NIOSH ASBESTOS

S

NIOSH_NAM NIOSH NonASBESTOS

NIOSH_Other

NIOSH Libby-Other Amphibole

Reviewed by:

Shauna Bjornson

Analyst



PBS Engineering and Environmental Inc. 214 F GALER STREET, SUITE 3DO SCATTLE, WA 98102 206, 231, 939

pbsusa.com

LABORATORY DATA SHEET

| Project Na | ame: Pierce C | ollege O | lympic Sou | th Abatement and Repairs | | | WEAT | HER/TEME |): | Comm | onte: | _ | | |
|-------------|----------------------------------|----------|------------|---|------------------|---------------------------------|------|----------|------------------------------|----------|-------|-------|-------|--------|
| | o.: 40535.488 | | | I.H. Claire Tsai | | | 1 | | | Commi | ents. | | | |
| Location: | Lakewood, W | Ά | | SAMPLE MEDIA/ANALYTICAL MET | HOD: NIOSH | 7400 | - | 1 | | | | | | |
| Contracto | r: Dickson | | | | | | 1 | | | | | - | | |
| Client: DE: | S | | | | | | | | | / | | | | |
| | ISHED BY (SI | | DATE/TI | AE: | ANALYZE | D BY: | inex | Sai | DATE/ | | | TWA: | | |
| | BY (SIGN.): | | DATE/TII | 1E: | ANALYZE | D BY: | my | om | DATE/ | TIME: | 022 | / | | |
| CODES: | P PERSO IWA INSID OWA OUTS | E AREA | A | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABA EXCURSION CLEARAN | N | PLE | GBA GLOVE BAG AREA H HEPA | | | | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | PRE | FLOW (L) | | TOTAL | FIB | FIB |
| 512412 | C17 18 | B | - | Starrad Field Blank | 1/100 | _ | | | | . 051 | AVG | VOL | 0/100 | CC |
| | C1719 | B | | w ti | 1 | | | | | | | | 1100 | _ |
| | 01720 | H | HV(06 | stairmell hepa (ductieme | ×4) V | 804 | 110 | 306 | 10 | 10 | 10 | 3060 | 3/100 | 4.0008 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | - (7) | | | | | | | | | |
| | | | | | | | | | | | | 1. | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| lecount Sa | mple # | | Recount | | | | | | | | | | | 1 |



PBS Engineering and Environmental Inc. 214 € GALER STREET, SUITE 300 SEATTLE, WA 98102 206-233-939

pbsusa.com

LABORATORY DATA SHEET

| Project N | ame: Pierce (| College C | Olympic Sou | th Abatement and Repairs | | | WEAT | HER/TEME | D. | Comm | | | | |
|------------|----------------------------------|----------------------|-------------|-----------------------------------|------------------|----------------------|----------------------------|--------------|------------|----------|--------|-------|-------|--------|
| | lo.: 40535.488 | | | I.H. Claire Tsa; | | | - | into I Elvii | | Comm | ents: | | | |
| Location: | : Lakewood, W | V A | | SAMPLE MEDIA/ANALYTICAL | METHOD: NIOSH | 7400 | + | | | | | | | |
| Contracto | or: Dickson | | | | | 7.35-7 | 1 | | | | - | | | |
| Client: DE | S | | | | | | | | | | | | | |
| RELINQU | JISHED BY (SI | IGN.): | DATE/TIM | /IE: | ANALYZE | D BY:// | <u>.</u> | 111 | DATE/ | /TIME: | | TWA: | | |
| RECEIVE | D BY (SIGN.): | | DATE/TIM | AE: | ANALYZEI | D BY: | m's | sau | DATE/TIME: | | | | | |
| CODES: | P PERSO IWA INSID OWA OUTS | DE AREA | 4 | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABA EXCURSION | ATEMENT ION NCE SAMP | | GBA H | GLOVE E | BAG AP | REA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | | PRE | FLOW (L) | | TOTAL | | FIB |
| 6131200 | 4C1721 | B | / | Field blank | %00 | | 0 | There | PKE | POST | AVG | VOL | FLD | СС |
| | C1772 | B | | W 11. | 1 | _ | | | | | | | 9100 | |
| 6 | (1723 | H | HV106 | LV2 column hepa | | 905 | 200 | 195 | 13 | 13 | 13 | 3835 | 2/100 | (,0007 |
| | | | | | | | | 6.5 | 10 | 10 | | 5011 | 7100 | (,000) |
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| | | $\vdash\vdash\vdash$ | | | | | | | | | | | | |
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| | 4 | | | | | | | | | | | | 4 | |
| 1 | | | | | | | $\overline{}$ | | | | - | | - 1 | |
| lecount Sa | mple # | | Recount | | | | | | | | | | / | |



pbsusa.com

LABORATORY DATA SHEET

| Project Name Abatement a | e: Pierce Colle and Repairs | ge Olyn | npic South | I.H. Claire Tsai | | | | IER/TEMP | * : | Comme | ents: | 0.6/7 | | |
|-----------------------------|--------------------------------|---------|------------|---|------------------|----------------------------------|---------|----------|------------|-----------------|---------|--------------|------------|-----------|
| Project No.: 4 | | | | SAMPLE MEDIA/ANALYTICAL N | | | Cloudy. | 303/003 | | | | esults to | | |
| Location: Olyr | mpic South | | | NIOSH METHOD 7402 - Labcor | inc. | | | | | | | igh@pbsusa.d | com | |
| Contractor: N | i/A | | | | | | | | | Claire. I | 'sai@pt | bsusa.com | | |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUISH | IED BY (SIGN. | | DATE/TIME | 6/6/2027 | ANALYZEI | D BY | - | | DATE/ | TIME: | | TWA: | | |
| RECEIVED BY | me | | DATE/TIME: | : 6/6/22 3pm | ANALYZEI | D BY: | | | DATE/ | TIME: | | | | |
| CODES: | PERSO IWA INSIDI OWA OUTSI | E AREA | A | C CLEARANCE A AMBIENT AIR B BLANK | PRE EX TEM | PRE-ABAT EXCURSIO CLEARANG | N | LE | GBA H | GLOVE I HEPA | BAG AR | EA | | |
| DATE | SAMPLE NUMBER | CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | TIME | TIME | TOTAL | PRE | FLOW | AVG | TOTAL VOL | FIB FLD | FIB CC |
| 6/6/2022 | C1724 | С | HV106 | Level 2 column cavity south of east construction door | | 9:14 | 11:14 | 120 | 10 | | | | 110 | |
| 6/6/2022 | C1725 | В | NA | Field Blank | | 9.14 | 11:14 | 120 | 10 | 10 | 10 | 1200 | | |
| 6/6/2022 | C1726 | В | NA | Field Blank | | | - | | 1 | - | - | - | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | - | | | | | |
| | | | | | | | | | | | | | | |
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| | | | | Reviewed by: | | | | | | | | | | |
| | | | | Results Released: | | | | | | | | | | |
| | | | | Invoice Released: | | | | | | | | | | |
| | | | | Fax USPS Email | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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NIOSH 7402 - TEM - Direct Report

Job Number: 220557

Client: PBS Engineering + Environmental

Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project No.: 40535,488

PO Number: Sub Project: Reference No.: Report Number: 220557R01 Report Date: 6/7/2022

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date | Date |
|--------------|----------------------|---------------------------|----------------|----------|-----------|
| 220557 - S1 | C1724 | NIOSH 7402 - TEM - Direct | | Sampled: | Received: |
| 220557 - S2 | The Park VIII | NIOSH 7402 - TEM - Direct | | 6/6/2022 | 6/6/2022 |
| 220557 - S3 | A contract of | NIOSH 7402 - TEM - Direct | | 6/6/2022 | 6/6/2022 |
| MODILE | | WOSH 7402 - TEM - Direct | | 6/6/2022 | 6/6/2022 |

NIOSH 7402 - Preparation and analysis of the above samples was conducted in accordance with the NIOSH method 7402 for the identification TEM - Direct of asbestos. The samples were collapsed with dimethylformamide (DMF) / acetic acid, carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification of 900x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Analyst



NIOSH 7402 - TEM - Direct Rapid Summary - Final Report

Job Number: 220557

SEA

Client: PBS Engineering + Environmental

Report Number: 220557R01 Date Received: 6/6/2022

Project Name: Pierce College Olympic South Abatement and Repairs

| Lab/Cor | Client Sample No. | Structure | Concen- | The second secon | | | | | |
|------------|-------------------|----------------|---------------------|--|-----------------------------|---------------------|--|--|--|
| Sample No. | 77 | Туре | tration* | 95% Confidence Interval | Fiber Count ¹ | Analytical Sens. | | | |
| | C1724 | NIOSH ASBESTOS | | (fiber/cc) | Prim/Total | (fiber/cc) | | | |
| S2 | | < 0.001 | 0 - 0.003 - Poisson | 0 | 0.00076 | | | | |
| | C1725 | Monty com- | | | | 0.00070 | | | |
| | 91129 | NIOSH ASBESTOS | Not Applicable | Not Applicable | 0 | 414 | | | |
| S3 | C1726 | | | | 0 | NA | | | |
| - | 61726 | NIOSH ASBESTOS | Not Applicable | Not Applicable | | | | | |
| | | Talar bear | Part & Prioreto | Not Applicable | 0 | NA | | | |

Reviewed by:

Shauna Bjornson

Analyst

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



NIOSH 7402 - TEM - Direct Summary Data -**Final Report**

Job Number: 220557

SEA

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Report Number: 220557R01 Date Received: 6/6/2022

Lab/Cor Sample No.: S1

Analyst(s)

SB

Client Sample No.: C1724

Analysis Date

6/7/2022

Microscope JEOL-Sr 1200

Magnification 1200

Volume (L): 1200

Lab Filter Area (mm2): 385 Grid Openings Analyzed: 40

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.424

Analytical Sens. (fiber/cc): 0.00076

| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count ¹ Prim/Total |
|------------------------------------|-----------------------------------|--|---|
| NIOSH ASBESTOS | < 0.001 | 0 - 0.003 - Poisson | |
| NIOSH NonASBESTOS | 0.003 | 0.001 - 0.008 - Poisson | |
| NIOSH Libby-Other Amphibole | < 0.001 | | 4 |
| NIOSH Total Fibers | | 0 - 0.003 - Poisson |] 0 [|
| Concentration and 05% Confidence I | 0.003 | 0.001 - 0.008 - Poisson | 4 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Client Sample No.: C1725

Analyst(s) **Analysis Date** SB

6/7/2022

Microscope JEOL-Sr 1200

Magnification 1200

Volume (L): 0 Lab Filter Area (mm2): 385

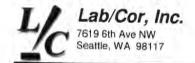
Grid Openings Analyzed: 40

Average Grid Opening Area: 0.0106 Area Analyzed (mm2): 0.424

Analytical Sens. (fiber/cc): NA

| | | (IIDC1/CC): | 110 |
|-------------------------------|-----------------------------------|--|---|
| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count ¹ Prim/Total |
| NIOSH ASBESTOS | Not Applicable | Not Applicable | 0.1 |
| NIOSH NonASBESTOS | Not Applicable | | |
| NIOSH Libby-Other Amphibole | | Not Applicable | 0 |
| | Not Applicable | Not Applicable | |
| NIOSH Total Fibers | Not Applicable | | |
| Concentration and OFSV O-VIII | Not Applicable | Not Applicable | 1 01 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



NIOSH 7402 - TEM - Direct Summary Data - Final Report

Job Number: 220557

SEA

Client: PBS Engineering + Environmental

Report Number: 220557R01

Lab/Cor Sample No.: S3

Analyst(s)

SB

Client Sample No.: C1726

Analysis Date

6/7/2022

Microscope JEOL-Sr 1200

Magnification

1200

Lab Filter Area (mm2): 385

Volume (L): 0

Grid Openings Analyzed: 40

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.424

Analytical Sens. (fiber/cc): NA

| Structure Type | Concen- tration* (fiber/cc) | 95% Confidence Interval (fiber/cc) | Fiber Count Prim/Total |
|--|-----------------------------------|--|------------------------------|
| NIOSH ASBESTOS | Not Applicable | Not Applicable | 0.1 |
| NIOSH NonASBESTOS | Not Applicable | Not Applicable | 0 |
| NIOSH Libby-Other Amphibole | Not Applicable | | 0 |
| NIOSH Total Fibers | | Not Applicable | 0 |
| ntration and 95% Confidence Level are calculated based upo | Not Applicable | Not Applicable | 0 |

Reviewed by:

Shauna Bjornson

Analyst



Job Number: 220557

SEA

NIOSH 7402

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs Project No.: 40535.488

Report Number: 220557R01 Date Received: 6/6/2022

Lab/Cor Sample No: S1 Client Sample No: C1724

| | Clier | nt Sample | No: C1 | 724 | | | | | | | | |
|----------|----------|------------|-------------|---------|----------|--------|-------|--|------------------------------|-------------|---------------------------------------|---------------------------------------|
| G | r No. | Loc. | ID | Prim To | ot Class | Length | Width | Aspect | Analyte | Elements | Commont | 0010.1 |
| G. | 1 | B44 | | | NSD | | | · · · · · · · · · · · · · · · · · · · | Allaryte | Licilients | Comment | Count Categories |
| G1 | | C43 | NAS | 1 | Fiber | 5.75 | 0.8 | 7.2 | Non Asbestos Structure | S, Ca | Possible Gypsum | NIOSH_NAM, NIOSH_Total |
| _G1 | | C44 | | | NSD | | | | Ollabiale | | | |
| _G1 | | E43 | | | NSD | | | | | | | |
| G1 | | E44 | NAS | 2 | Fiber | 8.5 | 1.5 | 5.7 | Non Asbestos Structure | S, Ca | Possible Gypsum | NIOSH_NAM, NIOSH_Total |
| G1 | 6 | F43 | | | NSD | | | | | | | |
| G1 | 7 | F44 | NAS | 3 | Fiber | 6 | 1.5 | 4 | Non Asbestos Structure | | | NIOSH_NAM, NIOSH_Total |
| _G1 | 8 | G43 | | | NSD | | | | | | | |
| G1 | 9 | G44 | | | NSD | | | | | | | |
| G1 | 10 | H43 | | | NSD | | | | | | | |
| G1 | 11 | C31 | | · | NSD | | | | | | | |
| G1 | 12 | C32 | | | NSD | | | | | | | |
| G1 | 13 | E31 | | | NSD | | | | | | | |
| G1 | 14 | E32 | | | NSD | | | | | ····· | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |
| G1 | 15 | F31 | NAS | 4 | Fiber | 9 | 2 | 4.5 | Non Asbestos Structure | | | NIOSH_NAM, NIOSH_Total |
| G1 | 16 | F32 | | | NSD | | | | - Guadiaio | | | |
| G1 | 17 | G31 | | | NSD | | | | | | | |
| _G1 | 18 | G32 | | | NSD | | | ······································ | | | | |
| G1 | 19 | H31 | | | NSD | | | | | | | |
| G1 | 20 | H32 | | | NSD | | | | | | | |
| G2 | 21 | B43 | | | NSD | | | | | | | |
| G2 | 22 | C43 | | | NSD | | | | | | | |
| G2 | 23 | E43 | | | NSD | | | | | | | |
| G2 | 24 | F43 | | | NSD | | | | | | | |
| G2 | 25 | G43 | | | NSD | | | | | | | |
| G2 | 26 | H43 | | | NSD | | | | | | | |
| G2 G2 | 27 28 | H44 | | | NSD | | | | | | | |
| G2 | 29 | F41 | | | NSD | | | | | | | |
| G2 | 30 | E41 C42 | | | NSD | | | | | | | |
| G2 | 31 | B41 | | | NSD | | | | | | | |
| G2 | 32 | B34 | | | NSD | | | | | | | |
| G2 | 33 | H34 | | | NSD | | | | | | | |
| G2 | 34 | G31 | | | NSD | | | ··-· | | | | |
| G2 | 35 | E32 | | | NSD | | | | | | | |
| G2 | 36 | C31 | | | NSD | | | | | | | |
| | | | | | NSD | | | | | | | |



Job Number: 220557

SEA

NIOSH 7402

Client: PBS Engineering + Environmental

Report Number: 220557R01

Project Name: Pierce College Olympic South Abatement and Repairs

Date Received: 6/6/2022

Lab/Cor Sample No: S1 Client Sample No: C1724

| Gr | No. | Loc. | ID | Prim Tot | Class | l ength | Width | Acrost | Analyte | | | |
|----|-----|------|----|----------|-------|---------|--|--------|---------|----------|---------|------------------|
| G2 | 37 | C24 | | | NSD | Longui | wiulii | wahect | Analyte | Elements | Comment | Count Categories |
| G2 | 38 | F53 | | | NSD | | | | | | | |
| G2 | 39 | G53 | | | NSD | | | | | | | |
| G2 | 40 | G54 | | | NSD | | ······································ | | | | | |



Job Number: 220557

SEA

NIOSH 7402

Client: PBS Engineering + Environmental

Report Number: 220557R01

Project Name: Pierce College Olympic South Abatement and Repairs

Date Received: 6/6/2022

Lab/Cor Sample No: S2 Client Sample No: C1725

| Gi | r No. | Loc. | ID | Prim | Tot | Class | Lenath | Width | Aspect | Analyte | Elements | Comment | 016 |
|-----|-------|------|---------------------------------------|------|-------|-------|--------|-------|--|---------|--|---|---------------------------------------|
| G1 | 1 1 | B43 | · · · · · · · · · · · · · · · · · · · | | | NSD | 3.,, | | . TOPCOL | Analyte | cientents | Comment | Count Categories |
| G1 | 2 | B44 | · | | | NSD | | | | | | | |
| G1 | | C43 | | - | | NSD | | | | | ····· | | · · · · · · · · · · · · · · · · · · · |
| _G1 | | C44 | | | | NSD | | | ······································ | | | | |
| _G1 | 5 | E43 | | | | NSD | | | | | | | |
| G1 | | E44 | | | | NSD | * | | | | | | |
| _G1 | | F43 | | | | NSD | | | | | | | |
| _G1 | | F44 | | | | NSD | | | | | · · · · · · · · · · · · · · · · · · · | | |
| G1 | | G43 | | | | NSD | | | | | | | |
| G1 | | G44 | | | | NSD | | | | | | | |
| G1 | 11 | C32 | | | | NSD | | | | | | | |
| G1 | 12 | E31 | | | | NSD | | | | | | | |
| G1 | 13 | E32 | | | | NSD | | | | | | | |
| G1 | 14 | F31 | | | | NSD | | | | | | | |
| G1 | 15 | F32 | | | | NSD | | | | | | | |
| G1 | 16 | G31 | | | | NSD | | | | | | | |
| G1 | 17 | G32 | | | | NSD | | | | | | | |
| G1 | 18 | H31 | | | | NSD | | | | | | | |
| _G1 | 19 | H32 | | | | NSD | | | | | | | |
| G1 | 20 | G24 | | | | NSD | | | | | | | |
| G2 | 21 | C43 | | | | NSD | | | | | | | |
| G2 | 22 | C44 | | | | NSD | | | | | | | |
| G2 | 23 | E43 | | | | NSD | | | | | | | |
| G2 | 24 | E44 | | | | NSD | | | | | | | |
| G2 | 25 | F43 | | | | NSD | | | | | | | |
| G2 | 26 | F44 | | | | NSD | | | | | | | |
| G2 | 27 | G43 | | | | NSD | | | | | | | |
| G2 | 28 | G44 | | | | NSD | | | | | | | |
| G2 | 29 | C34 | | | | NSD | | | | | | | |
| _G2 | 30 | E33 | | | ····· | NSD | | | | | | | |
| _G2 | 31 | F33 | | | | NSD | | | | | | | |
| G2 | 32 | F34 | | | · | NSD | | | | | ······································ | | |
| G2 | 33 | G33 | | | | NSD | | | | | | | |
| G2 | 34 | G34 | | | | NSD | | | | | | | |
| G2 | 35 | H33 | | | | NSD | | | | | | - · · · · · · · · · · · · · · · · · · · | |
| G2 | 36 | H34 | | | | NSD | | | | | | | |
| G2 | 37 | G31 | | | | NSD | | | | | | | |
| G2 | 38 | F31 | | | | NSD | | | | | | | |
| G2 | 39 | E32 | | | · | NSD | | | | | | | |
| G2 | 40 | C31 | | | | NSD | | | | | | | |



Job Number: 220557

SEA

NIOSH 7402

Client: PBS Engineering + Environmental

Report Number: 220557R01

Project Name: Pierce College Olympic South Abatement and Repairs

Date Received: 6/6/2022

Lab/Cor Sample No: S3 Client Sample No: C1726

| | | Sample | | | | | | | | | | | |
|-----|-------|--------|----|------|-----|-------|-------------|-------|-------------|---------------------------------------|-------------|-------------|------------------|
| - | r No. | | ID | Prim | Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
| Gi | | E51 | | | | NSD | | | | | | | Oddin Odlegones |
| G1 | | E52 | | | | NSD | | | | | | | |
| G1 | | F51 | | | | NSD | | | | | | | |
| G1 | | F52 | | | | NSD | | | | | | | |
| G1 | | G51 | | | | NSD | | | | | *** | | |
| G1 | | B44 | | | | NSD | | | | | | | |
| G1 | | C43 | | | | NSD | | | | | | | |
| G1 | 8 | C44 | | | | NSD | | | | | | | |
| G1 | 9 | E43 | | | | NSD | | | | | | | |
| G1 | 10 | E44 | | | | NSD | | | | | | | |
| G1 | 11 | H41 | | | | NSD | | | | | | | |
| G1 | 12 | G42 | | | | NSD | | | | | | | |
| G1 | 13 | G41 | | | | NSD | | | | | | | |
| _G1 | 14 | F42 | | | | NSD | | | | | | | |
| G1 | 15 | F41 | | | | NSD | | | | | | | |
| _G1 | 16 | B34 | | | | NSD | | | | | | | |
| _G1 | 17 | C34 | | | | NSD | | | | | | | |
| _G1 | 18 | E33 | | | | NSD | | | | | | | |
| G1 | 19 | E34 | | | | NSD | | | | · | | | |
| G1 | 20 | F33 | | | | NSD | | | | | | | |
| G2 | 21 | C43 | | | | NSD | | | | | | | |
| G2 | 22 | C44 | | | | NSD | | | | | | | |
| G2 | 23 | E43 | | _ | | NSD | | | | | | | |
| G2 | 24 | E44 | | | | NSD | | | | | | | |
| G2 | 25 | F43 | | | | NSD | | | | | | | |
| G2 | 26 | H42 | | | | NSD | | | | · · · · · · · · · · · · · · · · · · · | | | |
| G2 | 27 | H41 | | | | NSD | | | | · | | | |
| _G2 | 28 | G42 | | | | NSD | | | | | | | |
| G2 | 29 | G41 | | | | NSD | | | | | | | |
| G2 | 30 | F42 | | | | NSD | ····· | | | · | | | |
| G2 | 31 | C34 | | | | NSD | | | | | | | |
| G2 | 32 | E33 | | | | NSD | | | | | | | |
| G2 | 33 | E34 | | | | NSD | | | | | | · | |
| G2 | 34 | F33 | | | | NSD | | | | | ···· | | |
| G2 | 35 | F34 | | | | NSD | | | | | | | |
| G2 | 36 | H31 | | | | NSD | | | | | | | |
| G2 | 37 | G32 | | | | NSD | | | | | | | |
| G2 | 38 | G31 | | | | NSD | | | | | | | |
| G2 | 39 | F32 | | | | NSD | | | | | | | |
| G2 | 40 | F31 | | | | NSD | | | | | | | |
| | | | | | | | | | | | | | |



NIOSH 7402 - TEM - Direct Raw Data -**Final Report**

Job Number: 220557

SEA

NIOSH 7402

Client: PBS Engineering + Environmental

NIOSH Total Fibers

Report Number: 220557R01

Project Name: Pierce College Olympic South Abatement and Repairs

Date Received: 6/6/2022

Count Categories

NIOSH_Total

NIOSH_ASB NIOSH ASBESTOS NIOSH_NAM

NIOSH NonASBESTOS

NIOSH_Other

NIOSH Libby-Other Amphibole

Reviewed by:

Analyst

| | | Lab | Result | | |
|--------------|------------------------------------|--------------------------|--------------------------|---------------------|------------|
| PBS Sample # | Sample Location | Structure Count | Concentration (struc/cc) | Lab Report Date | <u>Lab</u> |
| | Cascade Room 432 | Sample Set Passes | S AHERA Clearance | Criteria | |
| | | Associated surface | dust sample numbers | s include: MVC56-60 | |
| CL-01 | North wall of Rm. 432 | 0 | <0.004 | 9/22/2021 | Lab Cor |
| CL-02 | SW wall of Rm. 432 | 0 | < 0.004 | 9/22/2021 | Lab Cor |
| CL-03 | SE wall of Rm. 432 | 0 | < 0.004 | 9/22/2021 | Lab Cor |
| CL-04 | East wall of Rm. 432 | 0 | < 0.004 | 9/22/2021 | Lab Cor |
| CL-05 | NE wall of Rm. 432 | 0 | < 0.004 | 9/22/2021 | Lab Cor |
| CL-06 | North of dressing corr. Rm. 431 | 0 | < 0.004 | 9/22/2021 | Lab Cor |
| CL-07 | North-central of dressing corr. | 0 | < 0.004 | 9/22/2021 | Lab Cor |
| CL-08 | Central of dressing corr. Rm. 431 | 1 | 0.004 | 9/22/2021 | Lab Cor |
| CL-09 | South-central of dressing corr. | 0 | < 0.004 | 9/22/2021 | Lab Cor |
| CL-10 | South of dressing corr. Rm. 431 | 0 | <0.004 | 9/22/2021 | Lab Cor |
| CL-11 | Field Blank 1 | 0 | NA | 9/22/2021 | Lab Cor |
| CL-12 | Field Blank 2 | 0 | NA | 9/22/2021 | Lab Cor |
| CL-13 | Lab Blank | 0 | NA | 9/22/2021 | Lab Cor |
| | | | | | |
| | Maintenance Building | Sample Set <u>Passes</u> | AHERA Clearance | Criteria | |
| | | Associated surface | dust sample numbers | | |
| CL-14 | NW wall of maintenance shed | 0 | <0.004 | 9/22/2021 | Lab Cor |
| CL-15 | Central of maintenance shed | 0 | <0.004 | 9/22/2021 | Lab Cor |
| CL-16 | SE wall of maintenance shed | 0 | <0.004 | 9/22/2021 | Lab Cor |
| CL-17 | NE wall of maintenance shed | 0 | <0.004 | 9/22/2021 | Lab Cor |
| CL-18 | SW wall of maintenance shed | 0 | <0.004 | 9/22/2021 | Lab Cor |
| CL-19 | Outside of maintenance shedNE | 0 | < 0.004 | 9/22/2021 | Lab Cor |
| CL-20 | Outside of maintenance shedS | 0 | < 0.004 | 9/22/2021 | Lab Cor |
| CL-21 | Outside of maintenance shed SW | 0 | < 0.004 | 9/22/2021 | Lab Cor |
| CL-22 | Outside of maintenance shed W | 0 | <0.004 | 9/22/2021 | Lab Cor |
| CL-23 | Outside of the maintenance shed NW | 0 | <0.004 | 9/22/2021 | Lab Cor |
| CL-24 | Field Blank 1 | 0 | NA | 9/22/2021 | Lab Cor |
| CL-25 | Field Blank 2 | 0 | NA | 9/22/2021 | Lab Cor |
| CL-26 | Lab Blank | 0 | NA | 9/22/2021 | Lab Cor |

July 2022 1 of 5

Construction Phase AHERA Clearance

PBS Engineering + Environmental PBS Project # 40535.488

| PBS Sample # | Sample Location | Structure Count | Concentration (struc/cc) | Lab Report Date | <u>Lab</u> |
|--------------|--|--------------------------|-----------------------------|---------------------|------------|
| | Level 3 Student Lounge | Sample Set <u>Passes</u> | AHERA Clearance | Criteria | |
| | • | Associated surface of | lust sample numbers | include: MVC243-247 | |
| CL-27 | Olympic South LV3 Student lounge NE | 0 | < 0.004 | 1/3/2022 | Lab Cor |
| CL-28 | Olympic South LV3 Student lounge SE | 0 | <0.004 | 1/3/2022 | Lab Cor |
| CL-29 | Olympic South LV3 Student lounge C | 0 | <0.004 | 1/3/2022 | Lab Cor |
| CL-30 | Olympic South LV3 Student lounge NW | 0 | <0.004 | 1/3/2022 | Lab Cor |
| CL-31 | Olympic South LV3 Student lounge SW | 0 | <0.004 | 1/3/2022 | Lab Cor |
| CL-32 | Outside West elevation below skybridge | 0 | <0.004 | 1/3/2022 | Lab Cor |
| CL-33 | Outside West elevation below skybridge | 0 | <0.004 | 1/3/2022 | Lab Cor |
| CL-34 | Outside West elevation below skybridge | 0 | <0.004 | 1/3/2022 | Lab Cor |
| CL-35 | Outside Olympic North LV3 hallway | 0 | <0.004 | 1/3/2022 | Lab Cor |
| CL-36 | Outside Olympic North LV3 hallway | 0 | <0.004 | 1/3/2022 | Lab Cor |
| CL-37 | Field Blank 1 | 0 | NA | 1/3/2022 | Lab Cor |
| CL-38 | Field Blank 2 | 0 | NA | 1/3/2022 | Lab Cor |
| CL-39 | Lab Blank | 0 | NA | 1/3/2022 | Lab Cor |
| | | | | | |
| | Level 3 Part 2 Main Floor and Plenum | - | AHERA Clearance | | |
| | | | | include: MVC284-292 | |
| CL-40 | Olympic South LV3 NE - Above floor | 0 | <0.004 | 1/24/2022 | Lab Cor |
| CL-41 | Olympic South LV3 SW - Above floor | 0 | <0.004 | 1/24/2022 | Lab Cor |
| CL-42 | Olympic South LV3 SE - Above floor | 0 | <0.004 | 1/24/2022 | Lab Cor |
| CL-43 | Olympic South LV3 NW - Above floor | 0 | <0.004 | 1/24/2022 | Lab Cor |
| CL-44 | Olympic South LV3 Center - Above floor | 0 | <0.004 | 1/24/2022 | Lab Cor |
| CL-45 | Olympic South LV3 NE - Sub floor | | | NALYZED | |
| CL-46 | Olympic South LV3 SW - Sub floor | 0 | < 0.004 | 1/24/2022 | Lab Cor |
| CL-47 | Olympic South LV3 South/Center - Sub floor | 0 | < 0.004 | 1/24/2022 | Lab Cor |
| CL-48 | Olympic South LV3 SE - Sub floor | 0 | <0.004 | 1/24/2022 | Lab Cor |
| CL-49 | Olympic South LV3 Center - Sub floor | 0 | <0.004 | 1/24/2022 | Lab Cor |
| CL-50 | Olympic South LV3 - Clean room | 0 | < 0.004 | 1/24/2022 | Lab Cor |
| CL-51 | Olympic South LV3 - Clean room | 0 | < 0.004 | 1/24/2022 | Lab Cor |
| CL-52 | Olympic South - Student Lounge - Center | 0 | <0.004 | 1/24/2022 | Lab Cor |
| CL-53 | Olympic South - Student Lounge - NW | 0 | <0.004 | 1/24/2022 | Lab Cor |
| CL-54 | Olympic South - Roof - Center | 0 | <0.004 | 1/24/2022 | Lab Cor |
| CL-55 | Field Blank 1 | 0 | NA | 1/24/2022 | Lab Cor |

July 2022 2 of 5

LV2 Rm 284 top of scaffolding

LV2 Rm 283 Center of the floor

CL-83

CL-84

Construction Phase AHERA Clearance

PBS Engineering + Environmental
PBS Project # 40535.488

Lab Cor

Lab Cor

| vasnington D | repartment of Enterprise Services | TENA Clearance | | PB3 PI | oject # 4053 |
|--------------|---|-------------------|--------------------------|------------------------|--------------|
| BS Sample # | Sample Location | Structure Count | Concentration (struc/cc) | Lab Report Date | <u>Lab</u> |
| L-56 | Field Blank 2 | 0 | NA | 1/24/2022 | Lab Cor |
| L-57 | Lab Blank | 0 | NA | 1/24/2022 | Lab Cor |
| | Level 3 Southwest Server Floor | Sample Set Passes | S AHERA Clearance | Criteria | |
| | | | dust sample number | s include: MVC354-358 | |
| L-58 | Lab Blank | 0 | NA | 4/4/2022 | Lab Cor |
| L-59 | Field Blank 1 | 0 | NA | 4/4/2022 | Lab Cor |
| L-60 | Field Blank 2 | 0 | NA | 4/4/2022 | Lab Cor |
| L-61 | LVI 3 SE in containment | 0 | < 0.005 | 4/4/2022 | Lab Cor |
| L-62 | LVI 3 SW in containment | 0 | < 0.005 | 4/4/2022 | Lab Cor |
| L-63 | LVI 3 NE in containment | 0 | < 0.005 | 4/4/2022 | Lab Cor |
| L-64 | LVI 3 NW in containment | 0 | < 0.005 | 4/4/2022 | Lab Cor |
| L-65 | LVI 3 N in containment | 0 | < 0.005 | 4/4/2022 | Lab Cor |
| L-66 | LVI 3 E in containment | 0 | < 0.005 | 4/4/2022 | Lab Cor |
| L-67 | LVI 3 W in containment | 0 | < 0.005 | 4/4/2022 | Lab Cor |
| L-68 | Roof S outside | 0 | < 0.005 | 4/4/2022 | Lab Cor |
| L-69 | Roof N outside | 0 | < 0.005 | 4/4/2022 | Lab Cor |
| L-70 | Bottom of E stairs outside | 0 | <0.005 | 4/4/2022 | Lab Cor |
| | Level 2 | • | s AHERA Clearance | | |
| . 71 | Lab Dia al | | • | s include: MVC359-369, | |
| L-71 L-72 | Lab Blank | 0 | NA | 4/6/2022 | Lab Cor |
| L-72 L-73 | Field Blank | 0 | NA | 4/6/2022 | Lab Cor |
| | Field Blank | 0 | NA 40.00F | 4/6/2022 | Lab Cor |
| L-74 | LV2 NE corner by decon | 0 | <0.005 | 4/6/2022 | Lab Cor |
| L-75 | LV2 Skybridge to Olympic N | 0 | <0.005 | 4/6/2022 | Lab Cor |
| L-76 | LV2 South of stairs | 0 | < 0.005 | 4/6/2022 | Lab Cor |
| L-77 | LV2 Central E area | 0 | < 0.005 | 4/6/2022 | Lab Cor |
| L-78 | LV2 Ramp on central corridor | 0 | < 0.005 | 4/6/2022 | Lab Cor |
| L-79 | LV2 southwest area near exterior stairs | 0 | < 0.005 | 4/6/2022 | Lab Cor |
| CL-80 | LV2 SE Main floor | 0 | < 0.005 | 4/6/2022 | Lab Cor |
| L-81 | LV2 Hallway between music rooms | 0 | < 0.005 | 4/6/2022 | Lab Cor |
| L-82 | LV2 Middle of Rm 284 on the floor | 0 | < 0.005 | 4/6/2022 | Lab Cor |

0

0

< 0.005

< 0.005

4/6/2022

4/6/2022

Construction Phase AHERA Clearance

PBS Engineering + Environmental PBS Project # 40535.488

| PBS Sample # | Sample Location | Structure Count | Concentration (struc/cc) | Lab Report Date | <u>Lab</u> |
|--------------|--|-----------------------|--------------------------|-----------------------|------------|
| CL-85 | LV2 Mechanical Mezzanine | 0 | <0.005 | 4/6/2022 | Lab Cor |
| CL-86 | LV2 Skybridge to Cascade OWA | 0 | < 0.005 | 4/6/2022 | Lab Cor |
| CL-87 | LvV2 Landing OWA | 0 | < 0.005 | 4/6/2022 | Lab Cor |
| CL-88 | LV1 Exterior landing Outside Stairwell OWA | 0 | < 0.005 | 4/6/2022 | Lab Cor |
| CL-89 | West elevation N Scaffold OWA | 0 | < 0.005 | 4/6/2022 | Lab Cor |
| CL-90 | West elevation below skybridge OWA | 0 | <0.005 | 4/6/2022 | Lab Cor |
| | Level 3 Electrical Containment | Sample Set Passes | AHERA Clearance | Criteria | |
| | | Associated surface of | dust sample number | s include: MVC377-380 | |
| CL-91 | Lab Blank | 0 | NA | 4/20/2022 | Lab Cor |
| CL-92 | Field Blank | 0 | NA | 4/20/2022 | Lab Cor |
| CL-93 | Field Blank | 0 | NA | 4/20/2022 | Lab Cor |
| CL-94 | Level 3 NW IWA | 0 | <0.005 | 4/20/2022 | Lab Cor |

| CL-92 | Field Blank | 0 | NA | 4/20/2022 | Lab Cor |
|--------|--|---|---------|-----------|---------|
| CL-93 | Field Blank | 0 | NA | 4/20/2022 | Lab Cor |
| CL-94 | Level 3 NW IWA | 0 | < 0.005 | 4/20/2022 | Lab Cor |
| CL-95 | Level 3 NE IWA | 0 | < 0.005 | 4/20/2022 | Lab Cor |
| CL-96 | Level 3 Central IWA | 0 | < 0.005 | 4/20/2022 | Lab Cor |
| CL-97 | Level 3 SW IWA | 0 | < 0.005 | 4/20/2022 | Lab Cor |
| CL-98 | Level 3 SE IWA | 0 | < 0.005 | 4/20/2022 | Lab Cor |
| CL-99 | Level 3 W OWA | 0 | < 0.005 | 4/20/2022 | Lab Cor |
| CL-100 | Level 3 N OWA | 0 | < 0.005 | 4/20/2022 | Lab Cor |
| CL-101 | Level 3 E OWA | 0 | < 0.005 | 4/20/2022 | Lab Cor |
| CL-102 | Level 1 Exterior Stairwell Landing OWA | 0 | < 0.005 | 4/20/2022 | Lab Cor |
| CL-103 | West Elevation N Scaffolding Level 2 OWA | 1 | 0.005 | 4/20/2022 | Lab Cor |

| | Level 1 | Sample Set | Passes AHERA Clearai | nce Criteria | |
|--------|---------------------------------------|--------------|------------------------|-----------------------|---------|
| | | Associated s | urface dust sample num | bers include: MVC381- | 391 |
| CI-104 | Level 2 E of elevator shaft | 0 | < 0.005 | 5/5/2022 | Lab Cor |
| CI-105 | Northwest stair landing between 1 & 2 | 0 | < 0.005 | 5/5/2022 | Lab Cor |
| CI-106 | Level 1 North East | 0 | < 0.005 | 5/5/2022 | Lab Cor |
| CI-107 | Level 1 W of Decon | 0 | < 0.005 | 5/5/2022 | Lab Cor |
| CI-108 | Level 1 Mechanical room | 0 | < 0.005 | 5/5/2022 | Lab Cor |
| CI-109 | Level 1 South West | 0 | < 0.005 | 5/5/2022 | Lab Cor |
| CI-110 | Level 1 S of Mech. Room | 0 | < 0.005 | 5/5/2022 | Lab Cor |
| CI-111 | Level 1 South East | 0 | < 0.005 | 5/5/2022 | Lab Cor |
| CI-112 | Clean room OWA | 0 | < 0.005 | 5/5/2022 | Lab Cor |
| CI-113 | Loadout OWA | 0 | < 0.005 | 5/5/2022 | Lab Cor |

July 2022 4 of 5

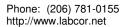
Construction Phase AHERA Clearance

PBS Engineering + Environmental PBS Project # 40535.488

| PBS Sample # | Sample Location | Structure Count | Concentration | Lab Report Date | <u>Lab</u> |
|--------------|--|-----------------|----------------------|-----------------|------------|
| | | | (struc/cc) | | |
| CI-114 | Underneahth Olympic N to S skybridge OWA | 0 | < 0.005 | 5/5/2022 | Lab Cor |
| CI-115 | Stair Tower Base OWA | 0 | < 0.005 | 5/5/2022 | Lab Cor |
| CI-116 | Lvl 2 S of containment OWA | 0 | < 0.005 | 5/5/2022 | Lab Cor |
| CI-117 | Lab Blank | 0 | NA | 5/5/2022 | Lab Cor |
| CI-118 | Field Blank | 0 | NA | 5/5/2022 | Lab Cor |
| Cl-119 | Field Blank | 0 | NA | 5/5/2022 | Lab Cor |

| | Stairwell | Sample Se | t Passes AHERA Cleara | nce Criteria | |
|--------|--|--------------|-------------------------|-------------------------|---------|
| | Stan Wen | Associated s | surface dust sample nun | nbers include: MVC392-3 | 396 |
| CI-120 | East stairwell level 1 | 0 | < 0.004 | 5/20/2022 | Lab Cor |
| CI-121 | East stairwell level 1 landing | 0 | < 0.004 | 5/20/2022 | Lab Cor |
| CI-122 | East stairwell level 2 | 0 | < 0.004 | 5/20/2022 | Lab Cor |
| CI-123 | East stairwell level 2 landing | 0 | < 0.004 | 5/20/2022 | Lab Cor |
| CI-124 | East stairwell level 3 | 0 | < 0.004 | 5/20/2022 | Lab Cor |
| CI-125 | Level 3 top of stairs outside stairwell | 0 | < 0.004 | 5/20/2022 | Lab Cor |
| CI-126 | Level 3 top of stairs outside stairwell | 0 | < 0.004 | 5/20/2022 | Lab Coi |
| CI-127 | Level 2 skybridge to cascade outside decon | 0 | < 0.004 | 5/20/2022 | Lab Coi |
| CI-128 | Top of scaffolding to skybridge to cascade | 0 | < 0.004 | 5/20/2022 | Lab Coi |
| CI-129 | Top of scaffolding to skybridge to cascade | 0 | < 0.004 | 5/20/2022 | Lab Cor |
| CI-130 | Lab Blank | 0 | NA | 5/20/2022 | Lab Cor |
| CI-131 | Field Blank | 0 | NA | 5/20/2022 | Lab Coi |
| CI-132 | Field Blank | 0 | NA | 5/20/2022 | Lab Cor |

July 2022 5 of 5





AHERA Final Report

Job Number: 210934 Report Number: 210934R01 Report Date: 9/22/2021

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project Num: 40535.488

PO Number: Sub Project:

PASSES AHERA Initial Screening Test with <70 s/mm2. PASSES AHERA Blank Contamination Test with <70 s/mm2. PASSES AHERA Z-Test, Z-score <1.65.

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Sample | # Client Sample # and Description | Analysis | Analysis Notes | Date Received: |
|----------------|-----------------------------------|----------|----------------|----------------|
| 210934 - S1 | CL-01 - | AHERA | | 9/20/2021 |
| 210934 - S2 | CL-02 - | AHERA | | 9/20/2021 |
| 210934 - S3 | CL-03 - | AHERA | | 9/20/2021 |
| 210934 - S4 | CL-04 - | AHERA | | 9/20/2021 |
| 210934 - S5 | CL-05 - | AHERA | | 9/20/2021 |
| 210934 - S6 | CL-06 - | AHERA | | 9/20/2021 |
| 210934 - S7 | CL-07 - | AHERA | | 9/20/2021 |
| 210934 - S8 | CL-08 - | AHERA | | 9/20/2021 |
| 210934 - S9 | CL-09 - | AHERA | | 9/20/2021 |
| 210934 - S10 | CL-10 - | AHERA | | 9/20/2021 |
| 210934 - S11 | CL-11 - | AHERA | | 9/20/2021 |
| 210934 - S12 | CL-12 - | AHERA | | 9/20/2021 |
| 210934 - S13 | CL-13 - | AHERA | | 9/20/2021 |



AHERA Final Report

Job Number: 210934 Report Number: 210934R01 Report Date: 9/22/2021 Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

40-CFR Part 763

AHERA - Method Preparation and analysis of the above samples was conducted in accordance with the AHERA method (40-CFR Part 763 Subpart E, Appendix A) for the identification of asbestos. Briefly, the samples were collapsed with a solution of N,N-App. A, Subpart E dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper orids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at approximate screen magnification of between 15,000x-20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification. Grid preparations are evaluated by the analyst before commencing analysis. Proper preparations have >75% replicate coverage, have a 10% etch rate, have acceptable particulate loading and show no evidence of preparation remnants (chemical or material).

Passing criteria for this method is based on the Filter Density (str/mm2). The Total Filter Density is divided by the number of inside work area samples; if the average Filter Density is >70 str/mm2 the sample set fails initial AHERA clearance criteria.

Disclaimer This test report shall not be reproduced, except in full, without written approval of the laboratory. The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in either structures/cm3 or structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Reviewed by:

Quality Control Officer



AHERA Rapid Summary - Final Report

Job Number: 210934 SEA

Client: PBS Engineering + Environmental

Report Number: 210934R01 Date Received: 9/20/2021

Phone: (206) 781-0155 http://www.labcor.net

| Project N | Vame: Pierce College Oly | Project Name: Pierce College Olympic South Abatement and Repairs | Repairs | | | | | |
|--------------------------|--------------------------|--|------------------------|------------------------------|----------------------------|---|--------------------------------|-------------------------------------|
| Lab/Cor Sample No. | Client Sample No. | Description | Structure Type | Filter Density (s/mm2) | Concentration* (struct/cc) | 95% Confidence Interval (struct/cc) | Struct Count¹ Prim/Total | Analytical Sens. (sruct/cc) : |
| S | CL-01 | | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| S 2 | CL-02 | | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| S3 | CL-03 | | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| S4 | CL-04 | | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| SS | CL-05 | | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| 98 | 90-TO | | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| S7 | CL-07 | | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| 88 | CL-08 | | AHERA TOTAL >=0.5, 5:1 | 13.9 | 0.004 | 0 - 0.025 - Poisson | - | 0.00446 |
| 6S | 60-TO | | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| S10 | CL-10 | | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| S11 | CL-11 | | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA V |
| S12 | CL-12 | | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |
| S13 | CL-13 | | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Rapid Summary - Final Report

Job Number: 210934

Client: PBS Engineering + Environmental

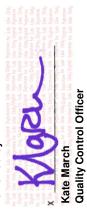
Report Number: 210934R01 Date Received: 9/20/2021

Phone: (206) 781-0155 http://www.labcor.net

Project Name: Pierce College Olympic South Abatement and Repairs

| 'n | | | |
|----|-------------------|----------|-------------|
| | Analytical | Sens. | (sruct/cc): |
| | Struct | Count | Prim/Total |
| | 95% Confidence | Interval | (struct/cc) |
| | Concen- | tration* | (struct/cc) |
| | Filter | Density | (s/mm2) |
| | Structure | Туре | |
| | Description | | |
| | Client Sample No. | | |
| | Lab/Cor | Sample | 2 |

Reviewed by:



^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Summary Data - Final Report

Job Number: 210934 SEA

Client: PBS Engineering + Environmental Report Number: 210934R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Lab/Cor Sample No.: S1 Volume (L): 1200

Client Sample No.: CL-01

Description:

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.072
SH 9/22/2021 Hitachi 7000FA 20000 Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Tota |
|---------------------------|------------------------------|-----------------------------------|--|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Client Sample No.: CL-02

Description:

Client Sample No.: CL-02

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.072

SH 9/22/2021 Hitachi 7000FA 20000 Area Analyzed (mm2): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S3Volume (L): 1200Client Sample No.: CL-03Lab Filter Area (mm2): 385Description:Grid Openings Analyzed: 6

Analyst(s) Analysis Date SH 9/22/2021 Hitachi 7000FA 20000 Average Grid Opening Area: 0.012

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 210934 SEA

Client: PBS Engineering + Environmental Report Number: 210934R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Lab/Cor Sample No.: S4 Volume (L): 1200

Client Sample No.: CL-04

Description:

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.072

SH 9/22/2021 Hitachi 7000FA 20000

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Tota |
|---------------------------|------------------------------|-----------------------------------|--|----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S5 Volume (L): 1200

Client Sample No.: CL-05

Description:

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification

Magnification

SH 9/22/2021 Hitachi 7000FA 20000 Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S6 Volume (L): 1200

Client Sample No.: CL-06

Description:

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification

Analysis Date Microscope Magnification

SB 9/22/2021 JEOL-Sr 1200 20000 Analytical Sens. (struc/cc): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 210934 SEA

Client: PBS Engineering + Environmental Report Number: 210934R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Lab/Cor Sample No.: S7 Volume (L): 1200

Client Sample No.: CL-07

Description:

Client Sample No.: CL-07

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.072

SB 9/22/2021 JEOL-Sr 1200 20000 Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S8 Volume (L): 1200

Client Sample No.: CL-08

Description:

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification

Magnification

SB 9/22/2021 JEOL-Sr 1200 20000 Analytical Sens. (struc/cc): 0.072

Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 13.9 | 0.004 | 0 - 0.025 - Poisson | 1 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 13.9 | 0.004 | 0 - 0.025 - Poisson | 1 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S9

Volume (L): 1200

Client Sample No.: CL-09

Description:

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification

Accordance Analysis Date Microscope Magnification

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.072

SB 9/22/2021 JEOL-Sr 1200 20000

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 210934 SEA

Client: PBS Engineering + Environmental Report Number: 210934R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Lab/Cor Sample No.: \$10 Volume (L): 1200

Client Sample No.: CL-10

Description:

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification SB 9/22/2021 JEOL-Sr 1200 20000 Average Grid Opening Area: 0.012

Analysts Date Microscope Magnification Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S11 Volume (L): 0

Client Sample No.: CL-11

Description:

Grid Openings Analyzed: 5

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.06
SB 9/22/2021 JEOL-Sr 1200 20000 Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S12 Volume (L): 0

Client Sample No.: CL-12

Description:

Grid Openings Analyzed: 5

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification

Analysis Date Microscope Magnification

SB 9/22/2021 JEOL-Sr 1200 20000 Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struc Cou Prim/1 | ınt¹ |
|---------------------------|------------------------------|-----------------------------------|--|------------------------|------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 210934 SEA

Client: PBS Engineering + Environmental Report Number: 210934R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Lab/Cor Sample No.: S13 Volume (L): 0

Client Sample No.: CL-13

Lab Filter Area (mm2): 385

Description: Grid Openings Analyzed: 10

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.12
SH 9/22/2021 Hitachi 7000FA 20000 Analytical Sens. (struc/cc): NA

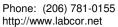
| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struct Cour Prim/T | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|--------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

x KlgRu.
Kate March

Quality Control Officer





AHERA Raw Data - Final Report

Job Number: 210934 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 210934R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: CL-01
Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C31 | | | NSD | | | | | | | |
| G1 | 2 | C32 | | | NSD | | | | | | | |
| G1 | 3 | E31 | | | NSD | | | | | | | |
| G2 | 4 | G34 | | | NSD | | | | | | | |
| G2 | 5 | H33 | | | NSD | | | | | | | |
| G2 | 6 | H34 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2
Client Sample No: CL-02
Description:

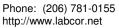
| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | NSD | | | | | | | |
| G1 | 2 | G43 | | NSD | | | | | | | |
| G1 | 3 | G44 | | NSD | | | | | | | |
| G2 | 4 | F41 | | NSD | | | | | | | |
| G2 | 5 | F42 | | NSD | | | | | | | |
| G2 | 6 | G41 | | NSD | | | | | | | |

Lab/Cor Sample No: S3
Client Sample No: CL-03
Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | F41 | | | NSD | | | | | | | |
| G1 | 3 | F42 | | | NSD | | | | | | | |
| G2 | 4 | F41 | | | NSD | | | | | | | |
| G2 | 5 | F42 | | | NSD | | | | | | | |
| G2 | 6 | G41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S4
Client Sample No: CL-04
Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C41 | | | NSD | | | | | | | |
| G1 | 2 | C42 | | | NSD | | | | | | | |
| G1 | 3 | E41 | | | NSD | | | | | | | |
| G2 | 4 | F42 | | | NSD | | | | | | | |
| G2 | 5 | G41 | | | NSD | | | | | | | |
| G2 | 6 | G42 | | | NSD | | | | | | | |





AHERA Raw Data - Final Report

Job Number: 210934 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + EnvironmentalReport Number: 210934R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/20/2021

Lab/Cor Sample No: S5 Client Sample No: CL-05 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F54 | | | NSD | | | | | | | |
| G1 | 2 | G53 | | | NSD | | | | | | | |
| G2 | 3 | F41 | | | NSD | | | | | | | |
| G2 | 4 | F42 | | | NSD | | | | | | | |
| G2 | 5 | G41 | | | NSD | | | | | | | |
| G2 | 6 | G42 | | | NSD | | | | | | | |

Lab/Cor Sample No: S6
Client Sample No: CL-06
Description:

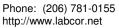
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | G34 | | | NSD | | | | | | | |
| G1 | 2 | G42 | | | NSD | | | | | | | |
| G1 | 3 | H41 | | | NSD | | | | | | | _ |
| G2 | 4 | F42 | | | NSD | | | | | | | _ |
| G2 | 5 | G41 | | | NSD | | | | | | | _ |
| G2 | 6 | G33 | | | NSD | | | | | | | |

Lab/Cor Sample No: S7
Client Sample No: CL-07
Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | G44 | | | NSD | | | | | | | |
| G1 | 2 | H43 | | | NSD | | | | | | | |
| G1 | 3 | H51 | | | NSD | | | | | | | |
| G2 | 4 | E52 | | | NSD | | | | | | | |
| G2 | 5 | E44 | | | NSD | | | | | | | |
| G2 | 6 | F43 | | | NSD | | | | | | | |

Lab/Cor Sample No: S8
Client Sample No: CL-08
Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comr | nent | Count Categories |
|----|-----|------|-----|----------|-------|---------|--------|--------|------------|----------|-----------|----------|----------------------|
| G1 | 1 | F42 | | | NSD | | | | | | | | |
| G1 | 2 | G41 | | | NSD | | | | | | | | |
| G1 | 3 | G33 | CDQ | 1 | Fiber | 2.5 | 0.12 | 20.8 | Chrysotile | | | | AHERA, AHERA_0.5-5.0 |
| | | | | | Iten | Туре | ItemNu | ım | | Conf | irmed | Commer | t |
| | | | | | Brig | htfield | J66048 | BBF | | | | | |
| | | | | | Diff | raction | J66048 | BDF | | SB 9 | 9/22/2021 | 0.53nm l | ROW SPACING |
| | | | | | Spe | ectra | J66048 | BSP | | | | | |
| G2 | 4 | F42 | | | NSD | | | | | | | | |
| G2 | 5 | G41 | | | NSD | | | | | | | | |
| G2 | 6 | G33 | | | NSD | | | | | | | | |





AHERA Raw Data -Final Report

Method 40-CFR Part 763 App. A, Subpart E Job Number: 210934 **SEA**

Client: PBS Engineering + Environmental Report Number: 210934R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Lab/Cor Sample No: S9 Client Sample No: CL-09 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F42 | | | NSD | | | | | | | |
| G1 | 2 | G41 | | | NSD | | | | | | | |
| G1 | 3 | G33 | | | NSD | | | | | | | |
| G2 | 4 | C42 | | | NSD | | | | | | | |
| G2 | 5 | E41 | | | NSD | | | | | | | |
| G2 | 6 | E33 | | | NSD | | | | | | | |

Lab/Cor Sample No: S10 Client Sample No: CL-10 Description:

Gr No. Loc. Prim Tot Class Length Width Aspect NSD G1 F32 G1 2 G31 NSD G1 3 G23 NSD

F44 NSD G2 4 G2 5 G43 NSD G2 G51 NSD 6

Analyte

Elements

Comment

Count Categories

Lab/Cor Sample No: S11 Client Sample No: CL-11 Description:

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E34 | | NSD | | | | | | | |
| G1 | 2 | F33 | | NSD | | | | | | | |
| G1 | 3 | F41 | | NSD | | | | | | | |
| G2 | 4 | F44 | | NSD | | | | | | | |
| G2 | 5 | C62 | | NSD | | | | | | | |

Lab/Cor Sample No: S12 Client Sample No: CL-12 Description:

| Gr | No. | Loc. | ID Prin | n Tot Cla | ss Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|---------|-----------|-----------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F42 | | NS | SD | | | | | | |
| G1 | 2 | G41 | | NS | SD | | | | | | |
| G1 | 3 | G33 | | NS | SD | | | | | | |
| G2 | 4 | G44 | | NS | SD | | | | | | |
| G2 | 5 | H43 | | NS | SD | | | | | | |



Lab/Cor, Inc.
7619 6th Ave NW
Seattle, WA 98117

Phone: (206) 781-0155 http://www.labcor.net

AHERA Raw Data -Final Report

Job Number: 210934 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + EnvironmentalReport Number: 210934R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/20/2021

Lab/Cor Sample No: S13 Client Sample No: CL-13 Description:

| Gr | No. | Loc. | ID | Prim Tot | Clas | s Length | Width | Aspect | Analyte | Eleme | nts Co | omment | Count Categories |
|-------|------------------|-------|-------|-------------|------|---------------|-------|-------------|----------|-------|----------|--------|------------------|
| G1 | 1 | C42 | | | NSI |) | | | | | | | |
| G1 | 2 | E41 | | | NSI |) | | | | | | | |
| G1 | 3 | E42 | | | NSI |) | | | | | | | |
| G1 | 4 | F41 | | | NSI |) | | | | | | | |
| G1 | 5 | F42 | | | NSI |) | | | | | | | |
| G2 | 6 | C34 | | | NSI |) | | | | | | | |
| G2 | 7 | E33 | | | NSI |) | | | | | | | |
| G2 | 8 | E34 | | | NSI |) | | | | | | | |
| G2 | 9 | F33 | | | NSI |) | | | | | | | |
| G2 | 10 | F34 | | | NSI |) | | | | | | | |
| Count | Count Categories | | | | | | | | | | | | |
| AHER | A | AHERA | TOTAL | .>=0.5, 5:1 | | AHERA_0.5-5.0 | AHERA | >=0.5 to 5. | 0μm, 5:1 | Α | HERA_5.0 | AHE | RA >=5.0μm, 5:1 |

Reviewed by:

X Klapeu Kate March

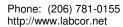
Quality Control Officer



PBS Engineering and Experimental Inc.
214 E GALER STREET, SUITE 300
SEATTLE, WAS 98102
206,243-939

LABORATORY DATA SHEET

| | | pbsusa.com | 27 | · : . | | | | | | | | | |
|--|-----------|------------|--|-------------------|------------------|----------|--------|---------------------------------------|---|----------------|----------|------|-----|
| Project Name: Pierce College Olympic South Abatement and Repairs | e Olympic | South Al | oatement and Repairs | | | WEATHER/ | VTEMP: | 7 O | Comments: s samples inside enclosure | s: inside | enclosum | n) | |
| Project No.: 40535.488 | | | I.H.: C. Tsai, P. Stensland, T. Nguyen | lguyen. | | | | Un | 5 samples outside enciosure | outside | enciosı | Fe | |
| Location: Lakewood, WA | | | SAMPLE MEDIA/ANALYTICAL METHOD: | . METHOD: | | | | | | | | | |
| Contractor: Dickson | | | | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | |
| E S | | DATE/TIME: | 20/21 | ANALYZED BY: | BY: | | | DATE/TIME: | , s | <u> </u> | *** | | |
| RECEIVED BY (SIGN.): | 힌 | DATE/TIME: | ή ι | ANALYZED BY: | BY: | | | DATE/TIME: | ĕ. | <u></u> | | | |
| NECESAED DI MICHAIL | | <u>E</u> | 0 27 H-14 DW | | | | | 1 | |) | | | |
| CODES: P PERSONAL | A. | 0 | · • | 112 | PRE-ABATEMENT | MENT | | H GBA | GLOVE BAG AKEA HEPA | G AXC | | | |
| NA AW | REA | w >> | AMBIENT AIR | TEM | CLEARANCE SAMPLE | E SAMPL | | | | | | | |
| CAND COLOR | | _ | LOCATION | BLANK | TIME | TIME | TOTAL | ı | FLOW | - | TOTAL | 3 28 | FIB |
| DATE NUMBER | CODE | POMP | ACTIVITY / PERSON | AVG | ON N | OFF | TIME | 쿭 | POST | Ž | ٢ | 7.50 | 1 |
| 9/20/2021 CL-01 | TEM | 8504 | North wall of Rm. 432 | | 7:10 | 9:10 | 120 | č | ā | ā | 200 | | |
| CL-02 | TEM F | HFP-01 | SW wall of Rm. 432 | | 7:11 | 9:11 | 120 |] [| Ē | Ē | i Z | | |
| CL-03 | EE E | 1696 | SE wall of Rm. 432 | | 7:12 | 9:12 | 120 | 10 | a | ő | 1200 | | |
| CL-04 | TEM | 70 | East wall of Rm. 432 | | 7:12 | 9:12 | 120 | 5 | 10 | 5 | 1200 | | |
| CL-05 | | HV-106 | NE wall of Rm. 432 | | 7:13 | 9:13 | 120 | 10 | 10 | 1 0 | 1200 | | |
| CL-06 | EM | 1606 | North of dressing corr. Rm. 431 | | 7:24 | 9:24 | 120 | 10 | 5 | 5 | 1200 | | |
| CL-07 | ┵ | HV19-9 | North-central of dresssing corr. Rm. 431 | | 7:25 | 9:25 | 120 | 10 | 10 | ō | 1200 | | |
| CL-08 | 퓓 | HV18-1 | Central of dressing corr. Rm. 431 | | 7:25 | 9:25 | 120 | 10 | 10 | 5 | 1200 | | |
| CL-09 | TEM | HV135 | South-central of dresssing corr. Rm. 431 | | 7:24 | 9:24 | 120 | 10 | 10 | 5 | 1200 | | |
| CL-10 | EW . | HV18-35 | South of dresssing corr. Rm. 431 | | 7:25 | 9:25 | 120 | 10 | 10 | ĵ | 0071 | | |
| CL-11 | <u>Б</u> | | Field Blank 1 | | | | | | | | | | |
| CL-12 | B | | Field Blank 2 | | | | | | | | | | |
| CL-13 | Б | 1 | Lab Blank | | | | | N N N N N N N N N N N N N N N N N N N | | CHOU | | | |
| | | | | | | | | Invoice | 170 | | | | |
| | | | | | | | | ax | USPS | CINE | | | |
| Recount Sample # | | Recount | | | | | | | | | | | |





AHERA Final Report

Job Number: 210935 Report Number: 210935R02

Report Date: 9/22/2021 Client: PBS Engineering + Environmental

Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project Num: 40535.488

PO Number: Sub Project:

REVISED This report was revised to add the Z-test information to the cover page. No other analytical data

Report Note: changed.

PASSES AHERA Initial Screening Test with <70 s/mm2. PASSES AHERA Blank Contamination Test with <70 s/mm2. PASSES AHERA Z-Test, Z-score <1.65.

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Sample # | # Client Sample # and Description | Analysis | Analysis Notes | Date Received: |
|------------------|-----------------------------------|----------|----------------|----------------|
| 210935 - S1 | CL-14 - | AHERA | | 9/20/2021 |
| 210935 - S2 | CL-15 - | AHERA | | 9/20/2021 |
| 210935 - S3 | CL-16 - | AHERA | | 9/20/2021 |
| 210935 - S4 | CL-17 - | AHERA | | 9/20/2021 |
| 210935 - S5 | CL-18 - | AHERA | | 9/20/2021 |
| 210935 - S6 | CL-19 - | AHERA | | 9/20/2021 |
| 210935 - S7 | CL-20 - | AHERA | | 9/20/2021 |
| 210935 - S8 | CL-21 - | AHERA | | 9/20/2021 |
| 210935 - S9 | CL-22 - | AHERA | | 9/20/2021 |
| 210935 - S10 | CL-23 - | AHERA | | 9/20/2021 |
| 210935 - S11 | CL-24 - | AHERA | | 9/20/2021 |
| 210935 - S12 | CL-25 - | AHERA | | 9/20/2021 |
| 210935 - S13 | CL-26 - | AHERA | | 9/20/2021 |



AHERA Final Report

Job Number: 210935 Report Number: 210935R02 Report Date: 9/22/2021 Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

40-CFR Part 763

AHERA - Method Preparation and analysis of the above samples was conducted in accordance with the AHERA method (40-CFR Part 763 Subpart E, Appendix A) for the identification of asbestos. Briefly, the samples were collapsed with a solution of N,N-App. A, Subpart E dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper orids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at approximate screen magnification of between 15,000x-20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification. Grid preparations are evaluated by the analyst before commencing analysis. Proper preparations have >75% replicate coverage, have a 10% etch rate, have acceptable particulate loading and show no evidence of preparation remnants (chemical or material).

Passing criteria for this method is based on the Filter Density (str/mm2). The Total Filter Density is divided by the number of inside work area samples; if the average Filter Density is >70 str/mm2 the sample set fails initial AHERA clearance criteria.

Disclaimer This test report shall not be reproduced, except in full, without written approval of the laboratory. The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in either structures/cm3 or structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Reviewed by:

Quality Control Officer



AHERA Rapid Summary - Final Report

Job Number: 210935

Client: PBS Engineering + Environmental

Report Number: 210935R02 Date Received: 9/20/2021

Phone: (206) 781-0155 http://www.labcor.net

(sruct/cc): Analytical Sens. 0.00446 0.00446 0.00446 0.00446 0.00446 0.00446 0.00446 0.00446 0.00446 0.00446 ₹ ¥ ¥ Prim/Total Struct Count 0 0 0 0 0 0 0 0 0 0 0 0 0 0 - 0.016 - Poisson 0 - 0.016 - Poisson 0 - 0.016 - Poisson 0 - 0.016 - Poisson 0 - 0.016 - Poisson 0 - 0.016 - Poisson 0 - 0.016 - Poisson 0 - 0.016 - Poisson 0 - 0.016 - Poisson 0 - 0.016 - Poisson 95% Confidence Not Applicable Not Applicable Not Applicable (struct/cc) Interval Not Applicable Not Applicable Not Applicable struct/cc) Concentration* < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 Density (s/mm2) Filter 0 0 0 0 0 0 0 0 0 0 0 0 0 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 Structure Type Project Name: Pierce College Olympic South Abatement and Repairs Description Client Sample No. CL-15 CL-16 CL-18 CL-19 CL-25 CL-26 CL-14 CL-17 CL-20 CL-22 CL-23 CL-21 CL-24 Sample Lab/Cor **S12 S13 S10 S11** No. 22 **S**3 \$4 S **S**6 88 89 S **S**7

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Rapid Summary - Final Report

Job Number: 210935

Client: PBS Engineering + Environmental

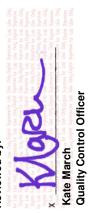
Report Number: 210935R02 Date Received: 9/20/2021

Phone: (206) 781-0155 http://www.labcor.net

Project Name: Pierce College Olympic South Abatement and Repairs

| - | | | |
|---|-----------------|--------------------|--------------|
| | Analytical | Sens. | (sruct/cc) : |
| | Struct | Count ₁ | Prim/Total |
| | 95% Confidence | Interval | (struct/cc) |
| | Concen- | tration* | (struct/cc) |
| | Filter | Density | (s/mm2) |
| | Structure | Type | |
| | Description | | |
| • | ient Sample No. | | |
| | Lab/Cor Clier | Sample | - 2 |

Reviewed by:



^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Summary Data - Final Report

Job Number: 210935 SEA

Client: PBS Engineering + Environmental Report Number: 210935R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Lab/Cor Sample No.: S1 Volume (L): 1200

Client Sample No.: CL-14

Description:

Clab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.072

KM 9/22/2021 JEOL-Sr 1200 20000 Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2

Client Sample No.: CL-15

Description:

Analysi(s)

Analysis Date

Wolume (L): 1200

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification

KM 9/22/2021 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S3

Client Sample No.: CL-16

Description:

Volume (L): 1200

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification
KM 9/22/2021 JEOL-Sr 1200 20000

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 210935 SEA

Client: PBS Engineering + Environmental Report Number: 210935R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Lab/Cor Sample No.: S4 Volume (L): 1200

Client Sample No.: CL-17

Description:

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.072

KM 9/22/2021 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Tota |
|---------------------------|------------------------------|-----------------------------------|--|----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S5 Volume (L): 1200

Client Sample No.: CL-18

Description:

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification

KM 9/22/2021 JEOL-Sr 1200 20000 Analytical Sens. (struc/cc): 0.072

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S6 Volume (L): 1200

Client Sample No.: CL-19
Description:

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.072

KM 9/22/2021 JEOL-Sr 1200 20000 Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 210935 SEA

Client: PBS Engineering + Environmental Report Number: 210935R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Lab/Cor Sample No.: S7 Volume (L): 1200

Client Sample No.: CL-20

Description:

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.072

KM 9/22/2021 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S8 Volume (L): 1200

Client Sample No.: CL-21

Description:

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification

SH 9/22/2021 Hitachi 7000FA 20000 Analytical Sens. (struc/cc): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

 $^{^{1}}$ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S9 Volume (L): 1200

Client Sample No.: CL-22

Description:

Analyst(s) Analysis Date Microscope

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.072

SH 9/22/2021 Hitachi 7000FA 20000 Analytical Sens. (struc/cc): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 210935 SEA

Client: PBS Engineering + Environmental Report Number: 210935R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Lab/Cor Sample No.: S10 Volume (L): 1200

Client Sample No.: CL-23

Description:

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.072

SH 9/22/2021 Hitachi 7000FA 20000

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S11 Volume (L): 0

Client Sample No.: CL-24

Description:

Grid Openings Analyzed: 5

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.06 Magnification Area Analyzed (mm2): 0.06 Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structur Count ¹ Prim/Tota |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S12 Volume (L): 0

Client Sample No.: CL-25

Description:

Grid Openings Analyzed: 5

Analyst(s) Analysis Date Microscope Magnification

Analyst(s) Analysis Date Microscope Magnification

Lab Filter Area (mm2): 385

Average Grid Opening Area: 0.012

KM 9/22/2021 JEOL-Sr 1200 20000 Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struc Cou Prim/ | |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 210935 SEA

Client: PBS Engineering + Environmental Report Number: 210935R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Lab/Cor Sample No.: S13 Volume (L): 0

Client Sample No.: CL-26

Lab Filter Area (mm2): 385

Passcription:

Grid Openings Applyand: 5

Description: Grid Openings Analyzed: 5

Average Grid Opening Area: 0.012

Analyst(s) Analysis Date Microscope Magnification Area Analyzed (mm2): 0.06
SH 9/22/2021 Hitachi 7000FA 20000 Analytical Sens. (struc/cc): NA

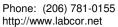
| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structu Count Prim/To | t¹ |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------|----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

x KlgRu.
Kate March

Quality Control Officer





Job Number: 210935 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 210935R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 9/20/2021

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: CL-14
Description:

| Gr | No. | Loc. | ID Prim | Tot Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|---------|-----------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E34 | | NSD | | | | | | | |
| G1 | 2 | F33 | | NSD | | | | | | | |
| G1 | 3 | F42 | | NSD | | | | | | | |
| G1 | 4 | G41 | | NSD | | | | | | | |
| G2 | 5 | F34 | | NSD | | | | | | | |
| G2 | 6 | G41 | | NSD | | | | | | | |

Lab/Cor Sample No: S2
Client Sample No: CL-15
Description:

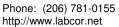
| Gr | No. | Loc. | ID Prim To | ot Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|------------|----------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E34 | | NSD | | | | | | | |
| G1 | 2 | F33 | | NSD | | | | | | | |
| G1 | 3 | F42 | | NSD | | | | | | | |
| G1 | 4 | G41 | | NSD | | | | | | | |
| G2 | 5 | F34 | | NSD | | | | | | | |
| G2 | 6 | G41 | | NSD | | | | | | | |

Lab/Cor Sample No: S3
Client Sample No: CL-16
Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E34 | | | NSD | | | | | | | |
| G1 | 2 | F33 | | | NSD | | | | | | | |
| G1 | 3 | F42 | | | NSD | | | | | | | |
| G1 | 4 | G41 | | | NSD | | | | | | | |
| G2 | 5 | H51 | | | NSD | | | | | | | |
| G2 | 6 | H44 | | | NSD | | | | | | | |

Lab/Cor Sample No: S4
Client Sample No: CL-17
Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F34 | | | NSD | | | | | | | |
| G1 | 2 | G33 | | | NSD | | | | | | | |
| G1 | 3 | G42 | | | NSD | | | | | | | |
| G1 | 4 | F41 | | | NSD | | | | | | | |
| G2 | 5 | E24 | | | NSD | | | | | | | |
| G2 | 6 | F31 | | | NSD | | | | | | | |





Job Number: 210935 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + EnvironmentalReport Number: 210935R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/20/2021

Lab/Cor Sample No: S5
Client Sample No: CL-18
Description:

| Gr | No. | Loc. | ID Prim To | t Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|------------|---------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E34 | | NSD | | | | | | | |
| G1 | 2 | F33 | | NSD | | | | | | | |
| G1 | 3 | F42 | | NSD | | | | | | | |
| G1 | 4 | G41 | | NSD | | | | | | | |
| G2 | 5 | E34 | | NSD | | | | | | | |
| G2 | 6 | F41 | | NSD | | | | | | | |

Lab/Cor Sample No: S6
Client Sample No: CL-19
Description:

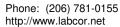
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F33 | | | NSD | | | | | | | |
| G1 | 2 | F42 | | | NSD | | | | | | | |
| G1 | 3 | G41 | | | NSD | | | | | | | _ |
| G2 | 4 | F33 | | | NSD | | | | | | | _ |
| G2 | 5 | F42 | | | NSD | | | | | | | _ |
| G2 | 6 | G41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S7
Client Sample No: CL-20
Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E33 | | | NSD | | | | | | | |
| G1 | 2 | E42 | | | NSD | | | | | | | |
| G1 | 3 | F41 | | | NSD | | | | | | | |
| G2 | 4 | F34 | | | NSD | | | | | | | |
| G2 | 5 | G33 | | | NSD | | | | | | | |
| G2 | 6 | G42 | | | NSD | | | | | | | |

Lab/Cor Sample No: S8
Client Sample No: CL-21
Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G44 | | | NSD | | | | | | | |
| G2 | 4 | C41 | | | NSD | | | | | | | |
| G2 | 5 | C42 | | | NSD | | | | | | | |
| G2 | 6 | E41 | | | NSD | | | | | | | |





Job Number: 210935 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + EnvironmentalReport Number: 210935R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/20/2021

Lab/Cor Sample No: S9
Client Sample No: CL-22
Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C41 | | | NSD | | | | | | | |
| G1 | 2 | C42 | | | NSD | | | | | | | |
| G1 | 3 | E41 | | | NSD | | | | | | | |
| G1 | 4 | E42 | | | NSD | | | | | | | |
| G2 | 5 | E41 | | | NSD | | | | | | | |
| G2 | 6 | E42 | | | NSD | | | | | | | |

Lab/Cor Sample No: S10 Client Sample No: CL-23 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | G43 | | | NSD | | | | | | | |
| G1 | 2 | G44 | | | NSD | | | | | | | |
| G1 | 3 | H43 | | | NSD | | | | | | | _ |
| G2 | 4 | F41 | | | NSD | | | | | | | _ |
| G2 | 5 | F42 | | | NSD | | | | | | | _ |
| G2 | 6 | G41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S11 Client Sample No: CL-24 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | F41 | | | NSD | | | | | | | |
| G1 | 3 | G43 | | | NSD | | | | | | | |
| G2 | 4 | F34 | | | NSD | | | | | | | |
| G2 | 5 | G41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S12 Client Sample No: CL-25 Description:

| Gr | No. | Loc. | ID Prim | Tot Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|---------|-----------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | G31 | | NSD | | | | | | | |
| G1 | 2 | G32 | | NSD | | | | | | | |
| G1 | 3 | H33 | | NSD | | | | | | | |
| G2 | 4 | G43 | | NSD | | | | | | | |
| G2 | 5 | F52 | | NSD | | | | | | | |





Job Number: 210935 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + EnvironmentalReport Number: 210935R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 9/20/2021

Lab/Cor Sample No: S13 Client Sample No: CL-26 Description:

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Com | ment Count (| Categories |
|-------|--------|-------|-------|------------|-------|------------|-------|-------------|----------|----------|-------|--------------------|------------|
| G1 | 1 | C43 | | | NSD | | | | | | | | |
| G1 | 2 | C44 | | | NSD | | | | | | | | |
| G1 | 3 | E43 | | | NSD | | | | | | | | |
| G2 | 4 | H41 | | | NSD | | | | | | | | |
| G2 | 5 | H42 | | | NSD | | | | | | | | |
| Count | Catego | ories | | | | | | | | | | | |
| AHER | Α | AHERA | TOTAL | >=0.5, 5:1 | AHE | RA_0.5-5.0 | AHERA | >=0.5 to 5. | 0μm, 5:1 | AHER | A_5.0 | AHERA >=5.0μm, 5:1 | |

Reviewed by:

X Kate March

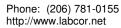
Quality Control Officer



PBS Engineering and Environmental Inc. 214 Edute 578EF, Suite 30d SEATHE, WASSOLD 206.233.559

LABORATORY DATA SHEET

| Project Name: Pierce | e College | Olympic | South A | Project Name: Pierce College Olympic South Abatement and Repairs | 3., 54 | | WEATHER/T | R/TEMP: | | Comments: | ķ | | | |
|------------------------|------------------|----------|----------------------|--|--------------|----------------------------|---------------|---------|---------------------------------------|------------------------|---------|------------|-----|-----|
| חייין אוא י אטצאבען. | | | | | | | | | | | | | | |
| Ploject No., 40333,400 | 88 | | | I.H.: C. Tsai, P. Stensland, T. Nguyen | lguyen | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| Location: Lakewood, WA | WA | | | SAMPLE MEDIA/ANALYTICAL METHOD: | . METHOD: | | | | | | | | • | · |
| Contractor: Dickson | | | | | <u></u> | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| SHED | BY (SIGN.): | DA. | レス/のゴルO SWIL/SLVD | | ANALYZED BY: | BY: | | | DATE/TIME: | ME: | | TWA: | | |
| RECEIVED BY (SIGN.): | Ë | DATE | LE/TIME: | IPALIONA. | ANALYZED BY: | BY: | | | DATE/TIME: | ME | | | | 1 |
| Ch | 3 | | 11.0 | 4.01000 | | | | | | | | | | |
| | PERSONAL | , . | » ∩ | CLEARANCE | P PE | PRE-ABATEMENT EXCURSION | Z III MENT | | H GBA | GLOVE BAG AREA HEPA | AG AREA | | | |
| OWA O | OWA OUTSIDE AREA | REA | σ) | | _ | CLEARANCE SAMPLE | E SAMPL | | | | | | | |
| DATE SAMPLE | CODE | | PUMP | LOCATION ACTIVITY / PERSON | BLANK AVG | ON TIME | 유 TME | TOTAL | PRE | FLOW | AVG | VOL VOL | 8 8 | ე ∰ |
| 9/20/2021 CL-14 | 4 TEM | \dashv | 8504 | NW wall of maintenance shed | | 10;34 | 12:34 | 120 | 10 | 70 | 70 | 1200 | | |
| . CL-15 | 5 TEM | | 70 | Central of maintenance shed | | 10:34 | 12:34 | 120 | 70 | 10 | <u></u> | 1200 | | |
| CL-16 | | TEM HV | HV-18-1 | SE wall of maintenance shed | | 10:34 | 12:34 | 120 | 9 | 5 | 0 | 1200 | | |
| CL-17 | | TEM | 13 | NE wall of maintenance shed | | 10:34 | 12:34 | 120 | 70 | ö | ō | 1200 | | |
| CL-18 | | TEM HE | HFP-01 | SW wall of maintenance shed | | 10:34 | 12:34 | 120 | 70 | 1 0 | ō | 1200 | | |
| CL-19 | | TEM H | HV-106 | Outside of maintenance shed NE | | 10:33 | 12:33 | 120 | 10 | 10 | 0 | 1200 | | |
| CL-20 | | TEM 1 | 1696 | Outside of maintenance shed | | 10:33 | 12:33 | 120 | ő | 10 | 70 | 1200 | | |
| CL-21 | | TEM H | HV-135 | Outside of maintenance shed SW | | 10:33 | 12:33 | 120 | 10 | ō | 5 | 1200 | | |
| CL-22 | | TEM HV | HV18-38 | Outside of maintenance shed W | | 10:33 | 12:33 | 120 | 10 | 10 | 10 | 1200 | | |
| CL-23 | | TEM H | HV19-9 | Outside of the maintenance shed NW | | 10:33 | 12:33 | 120 | 10 | 10 | 10 | 1200 | | |
| CL-24 | | 32 | , I | Field Blank 1 | | | | | | | | | | |
| C1-25 | | В | 1 | Field Blank 2 | | | | | | | | | | |
| CL-26 | | В | | Lab Blank | | | | | Result | s Release | | Condi | | |
| | | | | | | | | | nyoic | nvoice Release | Ct. | | | |
| | _ | | | | | | | | ex | 0970 | r con | | | |





AHERA Final Report

Job Number: 211292 Report Number: 211292R01 **Report Date:** 1/3/2022

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project Num: 40535.488

PO Number: Sub Project:

PASSES AHERA INITIAL SCREENING TEST - THE CUMULATIVE AVERAGE FILTER DENSITY FOR THIS SET IS: 0 S/MM2.

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes Date Sampled: | Date Received: |
|--------------|----------------------|----------|------------------------------|-------------------|
| 211292 - S1 | CL-27 | AHERA | 12/30/2021 | 12/30/2021 |
| 211292 - S2 | CL-28 | AHERA | 12/30/2021 | 12/30/2021 |
| 211292 - S3 | CL-29 | AHERA | 12/30/2021 | 12/30/2021 |
| 211292 - S4 | CL-30 | AHERA | 12/30/2021 | 12/30/2021 |
| 211292 - S5 | CL-31 | AHERA | 12/30/2021 | 12/30/2021 |
| 211292 - S6 | CL-32 | AHERA | 12/30/2021 | 12/30/2021 |
| 211292 - S7 | CL-33 | AHERA | 12/30/2021 | 12/30/2021 |
| 211292 - S8 | CL-34 | AHERA | 12/30/2021 | 12/30/2021 |
| 211292 - S9 | CL-35 | AHERA | 12/30/2021 | 12/30/2021 |
| 211292 - S10 | CL-36 | AHERA | 12/30/2021 | 12/30/2021 |
| 211292 - S11 | CL-37 | AHERA | 12/30/2021 | 12/30/2021 |
| 211292 - S12 | CL-38 | AHERA | 12/30/2021 | 12/30/2021 |
| 211292 - S13 | CL-39 | AHERA | 12/30/2021 | 12/30/2021 |



AHERA Final Report

Job Number: 211292 SEA Report Number: 211292R01 Client: PBS Engineering + Environmental **Report Date:** 1/3/2022

Project Name: Pierce College Olympic South Abatement and Repairs

40-CFR Part 763

AHERA - Method Preparation and analysis of the above samples was conducted in accordance with the AHERA method (40-CFR Part 763 Subpart E, Appendix A) for the identification of asbestos. Briefly, the samples were collapsed with a solution of N,N-App. A, Subpart E dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N.N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at approximate screen magnification of between 15,000x-20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification. Grid preparations are evaluated by the analyst before commencing analysis. Proper preparations have >75% replicate coverage, have a 10% etch rate, have acceptable particulate loading and show no evidence of preparation remnants (chemical or material).

Passing criteria for this method is based on the Filter Density (str/mm2). The Total Filter Density is divided by the number of inside work area samples; if the average Filter Density is >70 str/mm2 the sample set fails initial AHERA clearance criteria.

Disclaimer This test report shall not be reproduced, except in full, without written approval of the laboratory. The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in either structures/cm3 or structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIŚT, or any agency of the U.S. Government.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Reviewed by:

Sierra Hinkle

Technician/Analyst

Lab/Cor, Inc. 7619 6th Ave NW Seattle, WA 98117

AHERA Rapid Summary - Final Report

Job Number: 211292 SEA

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Report Number: 211292R01 Date Received: 12/30/2021

Phone: (206) 781-0155 http://www.labcor.net

| Lab/Cor Sample No. | Client Sample No. | Structure Type | Filter Density (s/mm2) | Concentration* (struct/cc) | 95% Confidence Interval (struct/cc) | Struct Count¹ Prim/Total | Analytical Sens. (sruct/cc) : |
|-----------------------|-------------------|------------------------|------------------------------|----------------------------|---|--------------------------------|-------------------------------------|
| S1 | CL-27 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00442 |
| S 2 | CL-28 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00442 |
| S3 | CL-29 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00442 |
| S4 | CL-30 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00442 |
| SS | CL-31 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00442 |
| 98 | CL-32 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| S7 | CL-33 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| 88 | CL-34 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| 83 | CL-35 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| S10 | CL-36 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| S11 | CL-37 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |
| S12 | CL-38 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | A N |
| S13 | CL-39 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | AN A |
| | | | | | | | |

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Rapid Summary - Final Report

Report Number: 211292R01 **Date Received:** 12/30/2021

Phone: (206) 781-0155 http://www.labcor.net

Job Number: 211292 SEA

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

(sruct/cc): Analytical Sens. Struct Count¹ Prim/Total 95% Confidence Interval (struct/cc) Concentration* (struct/cc) Filter Density (s/mm2) Structure Type Client Sample No. Sample No. Lab/Cor

Reviewed by:

Sierra Hinkle Technician/Analyst * One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Summary Data - Final Report

Job Number: 211292 SEA

Client: PBS Engineering + Environmental Report Number: 211292R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 12/30/2021

Lab/Cor Sample No.: S1 Volume (L): 1210

Client Sample No.: CL-27 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SH 1/3/2022 Hitachi 7000FA 20000 Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.0044192

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Volume (L): 1210

Client Sample No.: CL-28
Lab Filter Area (mm2): 385
Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification
SH 1/3/2022 Hitachi 7000FA 20000 Average Grid Opening Area: 0.012
Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.0044192

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5 5:1 | 0 | < 0.004 | 0 - 0 016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S3 Volume (L): 1210

Client Sample No.: CL-29

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification Grid Openings Analyzed: 6
SH 1/3/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.072

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struct Cour Prim/T | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|--------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 211292 SEA

Client: PBS Engineering + Environmental Report Number: 211292R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 12/30/2021

Lab/Cor Sample No.: S4 Volume (L): 1210

Client Sample No.: CL-30 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SH 1/3/2022 JEOL-Sr 1200 20000 Grid Opening Analyzed: 6

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.0044192

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S5 Volume (L): 1210

Client Sample No.: CL-31

Analyst(s)
SH

Analysis Date
Microscope
Hitachi 7000FA

20000

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.072 Analytical Sens. (struc/cc): 0.0044192

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5 5:1 | 0 | < 0.004 | 0 - 0 016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S6 Volume (L): 1200

Client Sample No.: CL-32

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification SH 1/3/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 6

Average Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.072

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data -Final Report

Job Number: 211292

Client: PBS Engineering + Environmental Report Number: 211292R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 12/30/2021

Lab/Cor Sample No.: S7 Volume (L): 1200

Client Sample No.: CL-33 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6 Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.012 1/3/2022 JEOL-Sr 1200 20000 SH Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|---|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Volume (L): 1200 Lab/Cor Sample No.: S8

Client Sample No.: CL-34 Lab Filter Area (mm2): 385 **Grid Openings Analyzed**: 6

Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.012 SH 1/3/2022 Hitachi 7000FA 20000 Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structu Count Prim/To | it¹ |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Volume (L): 1200 Lab/Cor Sample No.: S9

Client Sample No.: CL-35 Lab Filter Area (mm2): 385 **Grid Openings Analyzed:** 6

Analysis Date Magnification Analyst(s) Microscope Average Grid Opening Area: 0.012 SH 1/3/2022 Hitachi 7000FA 20000 Area Analyzed (mm2): 0.072

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Tota | |
|---------------------------|------------------------------|-----------------------------------|--|--|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data -Final Report

Job Number: 211292

SH

1/3/2022

Client: PBS Engineering + Environmental Report Number: 211292R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 12/30/2021

Lab/Cor Sample No.: S10 Volume (L): 1200

Client Sample No.: CL-36 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6 Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.012 1/3/2022 JEOL-Sr 1200 20000 SH Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Volume (L): 0 Lab/Cor Sample No.: S11

Client Sample No.: CL-37 Lab Filter Area (mm2): 385 Grid Openings Analyzed: 10

Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.012 SH 1/3/2022 Hitachi 7000FA 20000 Area Analyzed (mm2): 0.12

Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struc Cou Prim/ | ınt¹ |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------|------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

JEOL-Sr 1200

Volume (L): 0 Lab/Cor Sample No.: S12

20000

Client Sample No.: CL-38 Lab Filter Area (mm2): 385 Grid Openings Analyzed: 10 **Analysis Date** Magnification Analyst(s) Microscope Average Grid Opening Area: 0.012

> Area Analyzed (mm2): 0.12 Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Cou | cture unt¹ /Total |
|---------------------------|------------------------------|-----------------------------------|--|-----|-------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 211292 SEA

Client: PBS Engineering + Environmental Report Number: 211292R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 12/30/2021

Lab/Cor Sample No.: S13 Volume (L): 0

Client Sample No.: CL-39 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SH 1/3/2022 Hitachi 7000FA 20000 Area Analyzed (mm2): 0.12

Analytical Sens. (struc/cc): NA

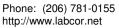
| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|---|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

Sierra Hinkle

Technician/Analyst





Job Number: 211292 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 211292R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 12/30/2021

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: CL-27

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E52 | | | NSD | | | | | | | |
| G1 | 2 | F51 | | | NSD | | | | | | | |
| G1 | 3 | F52 | | | NSD | | | | | | | |
| G2 | 4 | F43 | | | NSD | | | | | | | |
| G2 | 5 | F44 | | | NSD | | | | | | | |
| G2 | 6 | H34 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: CL-28

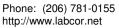
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C42 | | | NSD | | | | | | | |
| G1 | 2 | E41 | | | NSD | | | | | | | |
| G1 | 3 | H51 | | | NSD | | | | | | | |
| G2 | 4 | F41 | | | NSD | | | | | | | |
| G2 | 5 | F42 | | | NSD | | | | | | | |
| G2 | 6 | G41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S3 Client Sample No: CL-29

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F52 | | | NSD | | | | | | | |
| G1 | 2 | G51 | | | NSD | | | | | | | |
| G1 | 3 | G52 | | | NSD | | | | | | | |
| G2 | 4 | C41 | | | NSD | | | | | | | |
| G2 | 5 | C42 | | | NSD | | | | | | | |
| G2 | 6 | G42 | | | NSD | | | | | | | |

Lab/Cor Sample No: S4
Client Sample No: CL-30

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C42 | | | NSD | | | | | | | |
| G1 | 2 | E41 | | | NSD | | | | | | | |
| G1 | 3 | E42 | | | NSD | | | | | | | |
| G2 | 4 | G51 | | | NSD | | | | | | | |
| G2 | 5 | G52 | | | NSD | | | | | | | |
| G2 | 6 | H51 | | | NSD | | | | | | | |





Job Number: 211292 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 211292R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 12/30/2021

Lab/Cor Sample No: S5
Client Sample No: CL-31

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | G43 | | | NSD | | | | | | | |
| G1 | 2 | G44 | | | NSD | | | | | | | |
| G1 | 3 | H43 | | | NSD | | | | | | | |
| G2 | 4 | F43 | | | NSD | | | | | | | |
| G2 | 5 | F44 | | | NSD | | | | | | | |
| G2 | 6 | G43 | | | NSD | | | | | | | |

Lab/Cor Sample No: S6 Client Sample No: CL-32

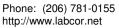
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F42 | | | NSD | | | | | | | |
| G1 | 2 | G41 | | | NSD | | | | | | | |
| G1 | 3 | G42 | | | NSD | | | | | | | |
| G2 | 4 | E52 | | | NSD | | | | | | | |
| G2 | 5 | F51 | | | NSD | | | | | | | |
| G2 | 6 | F52 | | | NSD | | | | | | | |

Lab/Cor Sample No: S7 Client Sample No: CL-33

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C41 | | | NSD | | | | | | | |
| G1 | 2 | C42 | | | NSD | | | | | | | |
| G1 | 3 | E41 | | | NSD | | | | | | | |
| G2 | 4 | F44 | | | NSD | | | | | | | |
| G2 | 5 | G43 | | | NSD | | | | | | | |
| G2 | 6 | G44 | | | NSD | | | | | | | |

Lab/Cor Sample No: S8 Client Sample No: CL-34

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G44 | | | NSD | | | | | | | |
| G2 | 4 | F41 | | | NSD | | | | | | | |
| G2 | 5 | F42 | | | NSD | | | | | | | |
| G2 | 6 | G41 | | | NSD | | | | | | | |





Job Number: 211292 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 211292R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 12/30/2021

Lab/Cor Sample No: S9
Client Sample No: CL-35

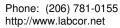
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G44 | | | NSD | | | | | | | |
| G2 | 4 | G43 | | | NSD | | | | | | | |
| G2 | 5 | G44 | | | NSD | | | | | | | |
| G2 | 6 | H43 | | | NSD | | | | | | | |

Lab/Cor Sample No: S10 Client Sample No: CL-36

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E41 | | | NSD | | | | | | | |
| G1 | 2 | E42 | | | NSD | | | | | | | |
| G1 | 3 | F41 | | | NSD | | | | | | | |
| G2 | 4 | E43 | | | NSD | | | | | | | |
| G2 | 5 | E44 | | | NSD | | | | | | | |
| G2 | 6 | F43 | | | NSD | | | | | | | |

Lab/Cor Sample No: S11
Client Sample No: CL-37

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C51 | | | NSD | | | | | | | |
| G1 | 2 | C52 | | | NSD | | | | | | | |
| G1 | 3 | E51 | | | NSD | | | | | | | |
| G1 | 4 | E52 | | | NSD | | | | | | | |
| G1 | 5 | F52 | | | NSD | | | | | | | |
| G2 | 6 | C43 | | | NSD | | | | | | | |
| G2 | 7 | C44 | | | NSD | | | | | | | |
| G2 | 8 | E43 | | | NSD | | | | | | | |
| G2 | 9 | E44 | | | NSD | | | | | | | |
| G2 | 10 | F43 | | | NSD | | | | | | | |





Job Number: 211292 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 211292R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 12/30/2021

Lab/Cor Sample No: S12 Client Sample No: CL-38

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|----------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C41 | | | NSD | <u> </u> | | | | | | |
| G1 | 2 | C42 | | | NSD | | | | | | | |
| G1 | 3 | E41 | | | NSD | | | | | | | |
| G1 | 4 | E42 | | | NSD | | | | | | | |
| G1 | 5 | F41 | | | NSD | | | | | | | |
| G1 | 6 | F42 | | | NSD | | | | | | | |
| G2 | 7 | C42 | | | NSD | | | | | | | |
| G2 | 8 | E41 | | | NSD | | | | | | | |
| G2 | 9 | E42 | | | NSD | | | | | | | |
| G2 | 10 | F41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S13
Client Sample No: CL-39

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Aspec | t Analyte | Elements | Comn | nent Count C | ategories |
|------|----------|-------|------------------|-------|------------|----------------|------------|----------|-------|--------------------------|-----------|
| G1 | 1 | C43 | | NSD | | | | | | | |
| G1 | 2 | C44 | | NSD | | | | | | | |
| G1 | 3 | E43 | | NSD | | | | | | | |
| G1 | 4 | E44 | | NSD | | | | | | | |
| G1 | 5 | F43 | | NSD | | | | | | | |
| G2 | 6 | C31 | | NSD | | | | | | | |
| G2 | 7 | C32 | | NSD | | | | | | | |
| G2 | 8 | E31 | | NSD | | | | | | | |
| G2 | 9 | E32 | | NSD | | | | | | | |
| G2 | 10 | E34 | | NSD | | | | | | | |
| Coun | t Catego | ries | | | | | | | | | |
| AHEF | A | AHERA | TOTAL >=0.5, 5:1 | AHE | RA_0.5-5.0 | AHERA >=0.5 to | 5.0µm, 5:1 | AHER | A_5.0 | AHERA >= $5.0\mu m, 5:1$ | |

Reviewed by:

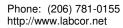
Sierra Hinkle

Technician/Analyst



LABORATORY DATA SHEET

| I I OCCUMBILIE | " LIEICE CC | llege UN | Vmbic South | Floject Name: Flerce College Olympic South Abatement and Repairs | | | WEATH | WEATHED TEMP | | | | | | |
|--------------------------|------------------|--------------|-------------|--|--------------|---------------|----------------------------|--------------|------------|----------------|---------|------------------------|-------------------------------|------|
| Project No.: 40535.488 | 0535.488 | | | I.H.: C. Tsai, F. Fletcher | | ı | 305 | | | Gregg.N | Middaug | gh@pbsu | Gregg.Middaugh@pbsusa.com and | d to |
| Location: Lakewood, WA | ewood, W/ | | | SAMPLE MEDIA/ANALYTICAL METHOD: | HOD: | | | | | Claire.T | sai@pb | Claire.Tsai@pbsusa.com | | |
| Contractor: Dickson | ickson | | | AHERA | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUISHED BY (SIGN.): | ED BY (SIO | :(.N | DATE/TIME: | 1210E121 1991 19101 | ANALYZED BY: | ЭВҮ: | | | DATE/TIME: | IME: | | TWA: | | |
| RECEIVED BY (SIGN.): | (SIGN.): | | DATE PHIE: | TE: 4c 1/3/2022 0800 | ANALYZED BY: | ЭВҮ: | | | DATE/TIME: | ME: | | | | |
| CODES: P | | NAL | | CLEARANCE | PRE | PRE-ABATEMENT | TEMENT | | | GLOVE BAG AREA | AG ARE | A | | |
| 0 8 | OWA OUTSIDE AREA | OUTSIDE AREA | | A AMBIENT AIR B BLANK | EM EX | CLEARANCE | EXCURSION CLEARANCE SAMPLE | n | I | HEPA | 200 |) | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 12/30/2021 | CI_37 | TEM | 3 | PERSON | AVG | ON | 유 | TIME | PRE | POST | AVG | VOL | FLD | S |
| | 2 1 | 1400 | ī | Ciyiripic Sodiii Lv3 Student lounge NE | | 10:25 | 12:26 | 121 | 10 | 10 | 10 | 1210 | | |
| | CL-78 | IEM | 8298 | Olympic South LV3 Student lounge SE | 1 | 10:25 | 12:26 | 121 | 10 | 10 | 10 | 1210 | | |
| | CL-29 | TEM | 6714 | Olympic South LV3 Student lounge C | | 10:25 | 12:26 | 121 | 10 | 10 | 10 | 1210 | | Ì |
| | CL-30 | TEM | HV19-9 | Olympic South LV3 Student lounge NW | | 10:25 | 12:26 | 121 | 10 | 10 | 10 | 1210 | | |
| | CL-31 | TEM | 4173 | Olympic South LV3 Student lounge SW | | 10:25 | 12:26 | 121 | 10 | 10 | 10 | 1210 | | |
| | CL-32 | TEM | 207067 | Outside West elevation below skybridge | | 10:37 | 12:37 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-33 | TEM | 208518 | Outside West elevation below skybridge | | 10:37 | 12:37 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-34 | TEM | HV18-38 | Outside West elevation below skybridge | | 10:38 | 12:38 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-35 | TEM | 8297 | Outside Olympic North LV3 hallway | | 10:45 | 12:45 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-36 | TEM | HV106 | Outside Olympic North LV3 hallway | | 10:45 | 12:45 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-37 | В | c | Field Blank 1 | | | | | | | | | | |
| | CL-38 | В | 1 | Field Blank 2 | | | | | 1 | 1 | | | | |
| | CL-39 | В | | Lab Blank | | | | | | | | | | |
| | | | | | | | | | | | 1 | | | |
| | | | | | | | | | | | 1 | 1 | | |





AHERA Final Report

Job Number: 220055 Report Number: 220055R01 Report Date: 1/24/2022

Client: PBS Engineering + Environmental

Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project Num: 40535.488

PO Number: Sub Project:

Report Note: DISCLAIMER: S6: CL-45 was not analyzed due to no filter being present in the cassette.

PASSES AHERA INITIAL SCREENING TEST - THE CUMULATIVE AVERAGE FILTER DENSITY FOR THIS SET IS: 0 S/MM2.

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Sampled: | Date Received: |
|--------------|----------------------|----------|----------------|------------------|-------------------|
| 220055 - S1 | CL-40 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S2 | CL-41 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S3 | CL-42 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S4 | CL-43 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S5 | CL-44 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S6 | CL-45 | AHERA | Not Analyzed | 1/21/2022 | 1/21/2022 |
| 220055 - S7 | CL-46 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S8 | CL-47 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S9 | CL-48 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S10 | CL-49 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S11 | CL-50 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S12 | CL-51 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S13 | CL-52 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S14 | CL-53 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S15 | CL-54 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S16 | CL-55 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S17 | CL-56 | AHERA | | 1/21/2022 | 1/21/2022 |
| 220055 - S18 | CL-57 | AHERA | | 1/21/2022 | 1/21/2022 |



AHERA Final Report

Job Number: 220055 **SEA** Report Number: 220055R01 Client: PBS Engineering + Environmental Report Date: 1/24/2022

Project Name: Pierce College Olympic South Abatement and Repairs

40-CFR Part 763

AHERA - Method Preparation and analysis of the above samples was conducted in accordance with the AHERA method (40-CFR Part 763 Subpart E, Appendix A) for the identification of asbestos. Briefly, the samples were collapsed with a solution of N,N-App. A, Subpart E dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N.N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at approximate screen magnification of between 15,000x-20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification. Grid preparations are evaluated by the analyst before commencing analysis. Proper preparations have >75% replicate coverage, have a 10% etch rate, have acceptable particulate loading and show no evidence of preparation remnants (chemical or material).

Passing criteria for this method is based on the Filter Density (str/mm2). The Total Filter Density is divided by the number of inside work area samples; if the average Filter Density is >70 str/mm2 the sample set fails initial AHERA clearance criteria.

Disclaimer This test report shall not be reproduced, except in full, without written approval of the laboratory. The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in either structures/cm3 or structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIŚT, or any agency of the U.S. Government.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Reviewed by:

Shauna Biornso

Analyst



AHERA Rapid Summary - Final Report

Job Number: 220055 SEA

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Report Number: 220055R01 Date Received: 1/21/2022

| S2 S3 S4 S4 S4 S4 S4 S4 S4 S4 S4 S4 S4 S4 S4 | CL-40 CL-42 CL-42 CL-43 CL-46 CL-46 CL-47 CL-49 CL-50 CL-51 | AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 | Density (s/mm2) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | tration* tration* (struct/cc) | 1 Interval (struct/cc) 0 - 0.015 - Poisson 0 - 0.015 - Poisson 0 - 0.015 - Poisson 0 - 0.015 - Poisson 0 - 0.015 - Poisson 0 - 0.015 - Poisson 0 - 0.015 - Poisson 0 - 0.015 - Poisson 0 - 0.016 - Poisson 0 - 0.016 - Poisson 0 - 0.016 - Poisson | Count Count Prim/Total Prim/Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Analytical Sens. (sruct/cc): |
|--|---|--|--|-------------------------------|---|---|-------------------------------|
| S14 | 01-53 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00435 |
| S15 | CL-54 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00446 |
| S16 | CL-55 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | AN |
| S17 | CL-56 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Rapid Summary - Final Report

Report Number: 220055R01 Date Received: 1/21/2022

Phone: (206) 781-0155 http://www.labcor.net

Job Number: 220055 SEA

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

| | | Lab/Cor Sample No.Client Sample No.Structure TypeFilter Density (s/mm²)Concen- Intation* (s/mm²)Confidence Interval (s/mm²)Struct/cc) (struct/cc)Struct/cc) (struct/cc)Struct/cc) (struct/cc)Prim/Total (sruct/cc)Analytical Sens. |
|--|--|---|
|--|--|---|

Reviewed by:

x Xum Oymon Shauna Bjornson Analyst



AHERA Summary Data - Final Report

Job Number: 220055 SEA

Client: PBS Engineering + Environmental Report Number: 220055R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/21/2022

Lab/Cor Sample No.: S1

Client Sample No.: CL-40

Analyst(s) Analysis Date Microscope Magnification
SB 1/24/2022 JEOL-Sr 1200 20000

Volume (L): 1330
Lab Filter Area (mm2): 385
Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012
Area Analyzed (mm2): 0.072
Analytical Sens. (struc/cc): 0.0040205

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Volume (L): 1350

Client Sample No.: CL-41

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification
SB 1/24/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012
Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.0039609

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 |
| AHERA TOTAL >=0.5 5:1 | 0 | < 0.004 | 0 - 0 015 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S3 Volume (L): 1350

Client Sample No.: CL-42

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification
SB 1/24/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.072

Area Analyzed (mm2): 0.0/2
Analytical Sens. (struc/cc): 0.0039609

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data -Final Report

Job Number: 220055

Client: PBS Engineering + Environmental Report Number: 220055R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/21/2022

Lab/Cor Sample No.: S4 Volume (L): 1330

Client Sample No.: CL-43 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6 Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.012 1/24/2022 JEOL-Sr 1200 20000 SB Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.0040205

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struc Cou Prim/ | ınt¹ |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------|------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Volume (L): 1340 Lab/Cor Sample No.: S5

Client Sample No.: CL-44 Lab Filter Area (mm2): 385 **Grid Openings Analyzed**: 6

Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.012 SB 1/24/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.0039905

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 |
| AHERA TOTAL >=0.5. 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Volume (L): 1350 Lab/Cor Sample No.: S7

Client Sample No.: CL-46 Lab Filter Area (mm2): 385 **Grid Openings Analyzed:** 6

Analysis Date Magnification Analyst(s) Microscope Average Grid Opening Area: 0.012 SB 1/24/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.072

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structur Count¹ Prim/Tot | 1 |
|---------------------------|------------------------------|-----------------------------------|--|--------------------------------|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220055 SEA

Client: PBS Engineering + Environmental Report Number: 220055R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/21/2022

Lab/Cor Sample No.: S8 Volume (L): 1360

Client Sample No.: CL-47 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 1/24/2022 JEOL-Sr 1200 20000 Grid Opening Analyzed: 6

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.0039318

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structu Count Prim/To | it¹ |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S9 Volume (L): 1200

Client Sample No.: CL-48

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification

Magnification

SB 1/24/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.004456

Structure Filter Concen-95% Confidence Structure Density Interval Count¹ Type tration* Prim/Total (struc/cc) (s/mm2) (struc/cc) 0 - 0.016 - Poisson AHERA >=0.5 to 5.0µm, 5:1 < 0.004 0 AHERA >=5.0μm, 5:1 < 0.004 0 0 - 0.016 - Poisson 0 AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson 0

Lab/Cor Sample No.: S10 Volume (L): 1340

Client Sample No.: CL-49

Lab Filter Area (mm2): 385

Analysis Date Microscope Magnification

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification
SB 1/24/2022 JEOL-Sr 1200 20000 Average Grid Opening Area: 0.012
Area Analyzed (mm2): 0.072

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structur Count¹ Prim/Tot | 1 |
|---------------------------|------------------------------|-----------------------------------|--|--------------------------------|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220055 SEA

Client: PBS Engineering + Environmental Report Number: 220055R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/21/2022

Lab/Cor Sample No.: S11 Volume (L): 1300

Client Sample No.: CL-50 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 1/24/2022 JEOL-Sr 1200 20000 Grid Opening Analyzed: 6

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.0041132

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struct Cour Prim/T | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|--------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.015 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S12 Volume (L): 1270

Client Sample No.: CL-51

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification
SB 1/24/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.0042104

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5. 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S13 Volume (L): 1220

Client Sample No.: CL-52

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification
SB 1/24/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 6

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.004383

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structu Count Prim/To | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220055 SEA

Client: PBS Engineering + Environmental Report Number: 220055R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/21/2022

Lab/Cor Sample No.: S14 Volume (L): 1230

Client Sample No.: CL-53 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 1/24/2022 JEOL-Sr 1200 20000 Grid Opening Analyzed: 6

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.0043473

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structo Coun Prim/To | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|----------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S15 Volume (L): 1200

Client Sample No.: CL-54

Analyst(s) Analysis Date Microscope Magnification

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification

SB 1/24/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.072

Analytical Sens. (struc/cc): 0.004456

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S16

Client Sample No.: CL-55

Volume (L): 0

Lab Filter Area (mm2): 388

Client Sample No.: CL-55

Analyst(s) Analysis Date Microscope Magnification
SB 1/24/2022 JEOL-Sr 1200 2000

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 10

Average Grid Opening Area: 0.012

Area Analyzed (mm2): 0.12

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220055 SEA

Client: PBS Engineering + Environmental Report Number: 220055R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/21/2022

Lab/Cor Sample No.: S17 Volume (L): 0

Client Sample No.: CL-56

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 1/24/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 10
Average Grid Opening Area: 0.012
Area Analyzed (mm2): 0.12

Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Co | cture unt¹ /Total |
|---------------------------|------------------------------|-----------------------------------|--|----|-------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S18 Volume (L): 0

Client Sample No.: CL-57

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 1/24/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.012

Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 |
| AHERA TOTAL >=0.5. 5:1 | 0 | Not Applicable | Not Applicable | 0 |

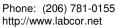
¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

Sun your

Shauna Bjornson and the lot libe only Digital Syrature for Lab Libe Shauna Biornson

Analyst





Job Number: 220055 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220055R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/21/2022

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: CL-40

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | | NSD | | | | | | | |
| G1 | 2 | F43 | | | NSD | | | | | | | |
| G1 | 3 | F52 | | | NSD | | | | | | | |
| G2 | 4 | F34 | | | NSD | | | | | | | |
| G2 | 5 | G33 | | | NSD | | | | | | | |
| G2 | 6 | E42 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: CL-41

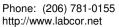
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G51 | | | NSD | | | | | | | |
| G2 | 4 | E34 | | | NSD | | | | | | | |
| G2 | 5 | F33 | | | NSD | | | | | | | |
| G2 | 6 | F41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S3 **Client Sample No:** CL-42

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | G44 | | | NSD | | | | | | | |
| G1 | 2 | H43 | | | NSD | | | | | | | |
| G1 | 3 | H51 | | | NSD | | | | | | | |
| G2 | 4 | F42 | | | NSD | | | | | | | |
| G2 | 5 | G41 | | | NSD | | | | | | | |
| G2 | 6 | G33 | | | NSD | | | | | | | |

Lab/Cor Sample No: S4 Client Sample No: CL-43

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | G44 | | | NSD | | | | | | | |
| G1 | 2 | H43 | | | NSD | | | | | | | |
| G1 | 3 | H51 | | | NSD | | | | | | | |
| G2 | 4 | F34 | | | NSD | | | | | | | |
| G2 | 5 | G33 | | | NSD | | | | | | | |
| G2 | 6 | G41 | | | NSD | | | | | | | |





Job Number: 220055 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220055R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/21/2022

Lab/Cor Sample No: S5 Client Sample No: CL-44

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C32 | | | NSD | | | | | | | |
| G1 | 2 | E31 | | | NSD | | | | | | | |
| G1 | 3 | F33 | | | NSD | | | | | | | |
| G2 | 4 | E34 | | | NSD | | | | | | | |
| G2 | 5 | F33 | | | NSD | | | | | | | |
| G2 | 6 | F41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S7
Client Sample No: CL-46

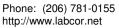
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G51 | | | NSD | | | | | | | |
| G2 | 4 | C34 | | | NSD | | | | | | | |
| G2 | 5 | E33 | | | NSD | | | | | | | |
| G2 | 6 | E41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S8 Client Sample No: CL-47

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|-------------------------|
| G1 | 1 | G44 | | NSD | | | | | | | |
| G1 | 2 | H43 | | NSD | | | | | | | |
| G1 | 3 | H51 | | NSD | | | | | | | |
| G2 | 4 | G44 | | NSD | | | | | | | |
| G2 | 5 | H43 | | NSD | | | | | | | |
| G2 | 6 | H51 | | NSD | | | | | | | |

Lab/Cor Sample No: S9 Client Sample No: CL-48

| Gr | No. | Loc. | ID Pr | im Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------|--------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C44 | | | NSD | | | | | | | |
| G1 | 2 | E43 | | | NSD | | | | | | | |
| G1 | 3 | E51 | | | NSD | | | | | | | |
| G2 | 4 | F32 | | | NSD | | | | | | | |
| G2 | 5 | G31 | | | NSD | | | | | | | |
| G2 | 6 | G23 | | | NSD | | | | | | | |





Job Number: 220055 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220055R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/21/2022

Lab/Cor Sample No: S10 Client Sample No: CL-49

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G51 | | | NSD | | | | | | | |
| G2 | 4 | E44 | | | NSD | | | | | | | |
| G2 | 5 | F43 | | | NSD | | | | | | | |
| G2 | 6 | F51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S11
Client Sample No: CL-50

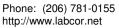
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | | NSD | | | | | | | |
| G1 | 2 | F43 | | | NSD | | | | | | | |
| G1 | 3 | F51 | | | NSD | | | | | | | |
| G2 | 4 | E44 | | | NSD | | | | | | | |
| G2 | 5 | F43 | | | NSD | | | | | | | |
| G2 | 6 | F51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S12 Client Sample No: CL-51

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|-------------------------|
| G1 | 1 | F44 | | NSD | | | | | | | |
| G1 | 2 | G43 | | NSD | | | | | | | |
| G1 | 3 | G51 | | NSD | | | | | | | |
| G2 | 4 | G32 | | NSD | | | | | | | |
| G2 | 5 | H31 | | NSD | | | | | | | |
| G2 | 6 | H23 | | NSD | | | | | | | |

Lab/Cor Sample No: S13 Client Sample No: CL-52

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F42 | | | NSD | | | | | | | |
| G1 | 2 | G41 | | | NSD | | | | | | | |
| G1 | 3 | G33 | | | NSD | | | | | | | |
| G2 | 4 | G44 | | | NSD | | | | | | | |
| G2 | 5 | H43 | | | NSD | | | | | | | |
| G2 | 6 | H51 | | | NSD | | | | | | | |





Job Number: 220055 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220055R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/21/2022

Lab/Cor Sample No: S14 Client Sample No: CL-53

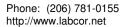
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F54 | | | NSD | | | | | | | |
| G1 | 2 | G53 | | | NSD | | | | | | | |
| G1 | 3 | G61 | | | NSD | | | | | | | |
| G2 | 4 | F42 | | | NSD | | | | | | | |
| G2 | 5 | G41 | | | NSD | | | | | | | |
| G2 | 6 | G33 | | | NSD | | | | | | | |

Lab/Cor Sample No: S15 Client Sample No: CL-54

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C32 | | | NSD | | | | | | | |
| G1 | 2 | E31 | | | NSD | | | | | | | |
| G1 | 3 | E23 | | | NSD | | | | | | | |
| G2 | 4 | F42 | | | NSD | | | | | | | |
| G2 | 5 | G41 | | | NSD | | | | | | | |
| G2 | 6 | G33 | | | NSD | | | | | | | |

Lab/Cor Sample No: S16 Client Sample No: CL-55

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G41 | | | NSD | | | | | | | |
| G1 | 4 | C54 | | | NSD | | | | | | | |
| G1 | 5 | E53 | | | NSD | | | | | | | |
| G2 | 6 | F42 | | | NSD | | | | | | | |
| G2 | 7 | G41 | | | NSD | | | | | | | |
| G2 | 8 | G33 | | | NSD | | | | | | | |
| G2 | 9 | G24 | | | NSD | | | | | | | |
| G2 | 10 | H23 | | | NSD | | | | | | | |





Job Number: 220055 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220055R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 1/21/2022

Lab/Cor Sample No: S17 Client Sample No: CL-56

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F42 | | | NSD | | | | | | | |
| G1 | 2 | G41 | | | NSD | | | | | | | |
| G1 | 3 | G33 | | | NSD | | | | | | | |
| G1 | 4 | G42 | | | NSD | | | | | | | |
| G1 | 5 | H41 | | | NSD | | | | | | | |
| G2 | 6 | F44 | | | NSD | | | | | | | |
| G2 | 7 | G43 | | | NSD | | | | | | | |
| G2 | 8 | G51 | | | NSD | | | | | | | |
| G2 | 9 | C42 | | | NSD | | | | | | | |
| G2 | 10 | E41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S18
Client Sample No: CL-57

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-------|--------|-------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F42 | | | NSD | | | | | | | |
| G1 | 2 | G41 | | | NSD | | | | | | | |
| G1 | 3 | G33 | | | NSD | | | | | | | |
| G1 | 4 | G44 | | | NSD | | | | | | | |
| G1 | 5 | H43 | | | NSD | | | | | | | |
| G2 | 6 | G52 | | | NSD | | | | | | | |
| G2 | 7 | G44 | | | NSD | | | | | | | |
| G2 | 8 | H43 | | | NSD | | | | | | | |
| G2 | 9 | E32 | | | NSD | | | | | | | |
| G2 | 10 | F31 | | | NSD | | | | | | | |
| Count | Catego | ories | | | | | | | | | | |

AHERA_5.0

AHERA >= $5.0\mu m, 5:1$

AHERA_0.5-5.0 AHERA >=0.5 to $5.0\mu m$, 5:1

Reviewed by:

AHERA TOTAL >=0.5, 5:1

AHERA

Shauna Bjornson Analyst

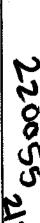
Page 15 of 15



LABORATORY DATA SHEET

ATA SHEET

| Project Nar | ne: Pierce Col | lege Olyr | mpic South | Project Name: Pierce College Olympic South Abatement and Repairs | | | WEATHER/TEMP: | R/TEMP: | | ommen | IS: 24HI | TAT Em | Comments: 24HR TAT Email results to | 8 |
|---------------------|------------------------|-------------|------------|--|--------------|---------------|------------------|---------|------------|------------------------|----------|---------|-------------------------------------|-----------|
| Project No. | Project No.; 40535.488 | | | I.H.: Toan N, F. Fletcher | | | 168 | | | Claire.Tsai@pbsusa.com | i@pbsu | ısa.com | Claire.Tsai@pbsusa.com | |
| Location: L | Location: Lakewood, WA | | | SAMPLE MEDIA/ANALYTICAL METHOD: | Ð | | | | | | | | | |
| Contractor: Dickson | Dickson | | | | - | | | | | | | | | |
| Client: DES | • | | | | | | | | | | | | : | : |
| RELINQUIS | MEN STENDE | | DATE/TIME: | 2 1552 | ANALYZED BY: | BY: | | | DATE/TIME: | ME | | TWA: | | |
| RECEIVED | BY (SIGN.): | | | EP 入分 2 | ANALYZED BY: | BY: | | | DATE/TIME: | Z. | | | | |
| COPIES: | D DEDCO | | | | PRE | PRE-ABATE | EMENT | | | GLOVE BAG AREA | G AREA | | | |
| כסטונא: | IWA INSIDE ARI | INSIDE AREA | | A AMBIENT AIR | ₩ ; | EXCURSION | Z | | I | HEPA | | | | |
| | - | DE AREA | | | TEM | CLEARANG | CLEARANCE SAMPLE | | | | | | | |
| DATE | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | JIME | TOTAL | PR | POST TOW | <u>۸</u> | VOI AL | E E | CC FIB |
| | 1401110 | | 7070 | Ohimpic South I V3 NE - Above floor | | 10:51 | 13-04 | 133 | 16 | | 10 | 1330 | | |
| | C1-41 | ΤFM | 8298 | Olympic South LV3 SW - Above floor | | 10:50 | 13:05 | 135 | 10 | 0.1 | 10 | 1350 | ***** | - |
| | CL-42 | TEM | 4173 | Olympic South LV3 SE - Above floor | | 10:50 | 13:05 | 135 | 10 | 10 | 10 | 1350 | | |
| | CL-43 | TEM | 13 | Olympic South LV3 NW - Above floor | | 10:52 | 13:05 | 133 | 10 | 10 | 10 | 1330 | | |
| | CL-44 | TEM | 6714 | Olympic South LV3 Center - Above floor | | 10:50 | 13:04 | 134 | 10 | 10 | 10 | 1340 | | |
| | CL-45 | TEM | HV106 | Olympic South LV3 NE - Sub floor | | 10:49 | 13:04 | 135 | 10 | 15 | 10 | 1350 | | |
| | CL-46 | TEM | 7085 | Olympic South LV3 SW - Sub floor | | 10:50 | 13:05 | 135 | 16 | 10 | 10 | 1350 | | |
| | CL-47 | TEM | 1696 | Olympic South LV3 South/Center - Sub floor | | 10:50 | 13:06 | 136 | 5 | 10 | 10 | 1360 | | |
| | CL-48 | TEM | HV18-1 | Olympic South LV3 SE - Sub floor | | 10:45 | 12:45 | 120 | 10 | 10 | 10 | 1200 | | |
| Mg. | CL-49 | TEM | 10W40 | Olympic South LV3 Center - Sub floor | | 10:51 | 13:05 | 134 | 10 | 10 | 10 | 1340 | | |
| 5 | CL-50 | ⊤EM | 70 | Olympic South LV3 - Clean room | | 10:55 | 13:05 | 130 | 10 | 10 | 10 | 1300 | | |
| LE | CL-51 | TEM | 8297 | Olympic South LV3 - Clean room | | 10:56 | 13:03 | 127 | 10 | ä | 10 | 1270 | | |
| 73 M1 | CL-52 | TEM | 6163 | Olympic South - Student Lounge - Center | | 11;08 | 13:10 | 122 | 10 | 10 | 15 | 1220 | | |
| ol SA | CL-53 | TEM | 9198 | Olympic South - Student Lounge - NW | | 11:07 | 13:10 | 123 | 10 | 10 | 10 | 1230 | | |
| 5 | CL-54 | TEM | НV30А | Olympic South - Roof - Center | | 11:12 | 13:12 | 120 | 10 | 10 | 10 | 1200 | | |
| | | e | وماد | Day Chaire's about to | ada etana | <u>ოეე.</u> ⊿ | Arado 7 | 3 | | | | | | |

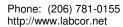






LABORATORY DATA SHEET

| Project Name: Pierce College Olympic South Abatement and Repairs | | WEATHER/TEMP: | Comments: 24 | HR TAT Email resu | lits to |
|--|---|--|--|---|---|
| I.H.: Toan N, F. Fletcher | | Š | Claire.Tsai@pb | susa.com | |
| SAMPLE MEDIA/ANALYTICAL I | METHOD: | | | | |
| ATTERNA | | | | | |
| | | | | | |
| | ANALYZED BY: | | DATE/TIME: | TWA: | |
| 155.2 | ANALYZED BY: | | АТЕ/ПМЕ: | | |
| CLEARANCE AMBIENT AIR BLANK | PRE PRE-ABA EX EXCURSI TEM CLEARAN | IENT SAMPLE | | EA | |
| LOCATION | | _ | FLOW | - | æ |
| ACTIVITY / PERSON | AVG ON | OFF TIME | PRE POST AVG | 十 | 8 |
| Olympic South Book Conto | | 130131120 | OT. OT. | 1986 | |
| Field Blank 1 | | | | * | |
| Field Blank 2 | 7 | 3 | | | |
| Lab Blank | | | | | |
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| | Abatement and Repairs I.H.: Toan N, F. Fletcher SAMPLE MEDIA/ANALYTICAL I AHERA E: 155 2 CLEARANCE A AMBIENT AIR B BLANK LOCATION ACTIVITY / PERSON Field Blank 1 Field Blank 2 Lab Blank | NALYTICAL METHOD: NALYTICAL METHOD: ANALYZED | Itcher NALYTICAL METHOD: ANALYZED BY: ANALYZED BY: ANALYZED BY: PRE PRE-ABATEMENT EX EXCURSION TEM CLEARANCE SAMPLE ION BLANK TIME TIME TOTAL AVG ON OFF TIME PRESON AVG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME ANG ON OFF TIME | NALYTICAL METHOD: ANALYZED BY: ANALYZED BY: ANALYZED BY: ANALYZED BY: DATE/T DATE/T DATE/T DATE/T DATE/T DATE/T DATE/T DATE/T DATE/T DATE/T DATE/T DATE/T DATE/T DATE/T DATE/T DATE/T DATE/T DATE/T ANALYZED BY: DATE/T GBA EXCURSION TEM CLEARANCE SAMPLE TOTAL AVG ON OFF TIME PRE PRE DATE/T | TICHOR NALYTICAL METHOD: ANALYZED BY: ANALYZED BY: ANALYZED BY: ANALYZED BY: ANALYZED BY: BY: ANALYZED BY: ANALYZED BY: BY: ANALYZED BY: BY: ANALYZED BY: BY: BATE/TIME: DATE/TIME: DATE/TIME: TWA: AREA TOTAL FIB PRE POST AVG VOL FID BANK 1 1 ME PAE PRE-ABATEMENT H HEPA TOTAL FIB BANK 1 1 ME PAE POST AVG VOL FID BANK 2 10 10 10 10 10 10 10 10 10 10 10 10 10 |





AHERA Final Report

Job Number: 220340 Report Number: 220340R01 Report Date: 4/4/2022

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project Num: 40535.488

PO Number: Sub Project:

PASSES AHERA Initial Screening Test with <70 s/mm2. PASSES AHERA Blank Contamination Test with <70 s/mm2. PASSES AHERA Z-Test, Z-score <1.65.

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Received: |
|--------------|----------------------|----------|----------------|----------------|
| 220340 - S1 | CL-58 | AHERA | | 4/4/2022 |
| 220340 - S2 | CL-59 | AHERA | | 4/4/2022 |
| 220340 - S3 | CL-60 | AHERA | | 4/4/2022 |
| 220340 - S4 | CL-61 | AHERA | | 4/4/2022 |
| 220340 - S5 | CL-62 | AHERA | | 4/4/2022 |
| 220340 - S6 | CL-63 | AHERA | | 4/4/2022 |
| 220340 - S7 | CL-64 | AHERA | | 4/4/2022 |
| 220340 - S8 | CL-65 | AHERA | | 4/4/2022 |
| 220340 - S9 | CL-66 | AHERA | | 4/4/2022 |
| 220340 - S10 | CL-67 | AHERA | | 4/4/2022 |
| 220340 - S11 | CL-68 | AHERA | | 4/4/2022 |
| 220340 - S12 | CL-69 | AHERA | | 4/4/2022 |
| 220340 - S13 | CL-70 | AHERA | | 4/4/2022 |



AHERA Final Report

Job Number: 220340 Report Number: 220340R01 **Report Date:** 4/4/2022 Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

40-CFR Part 763

AHERA - Method Preparation and analysis of the above samples was conducted in accordance with the AHERA method (40-CFR Part 763 Subpart E, Appendix A) for the identification of asbestos. Briefly, the samples were collapsed with a solution of N,N-App. A, Subpart E dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at approximate screen magnification of between 15,000x-20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification. Grid preparations are evaluated by the analyst before commencing analysis. Proper preparations have >75% replicate coverage, have a 10% etch rate, have acceptable particulate loading and show no evidence of preparation remnants (chemical or material).

> Passing criteria for the initial clearance as defined by the method is based on the Filter Density (str/mm2). The Total Filter Density is divided by the number of inside work area samples; if the average Filter Density is >70 str/mm2 the sample set fails initial AHERA clearance criteria.

Disclaimer This test report shall not be reproduced, except in full, without written approval of the laboratory. The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in either structures/cm3 or structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Reviewed by:

Kate March

Quality Control Officer



AHERA Rapid Summary - Final Report

Job Number: 220340 SEA

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Report Number: 220340R01 Date Received: 4/4/2022

Phone: (206) 781-0155 http://www.labcor.net

| 20062 | | | | | | | |
|-----------------------|-------------------|------------------------|------------------------------|------------------------------------|---|--------------------------------|-------------------------------------|
| Lab/Cor Sample No. | Client Sample No. | Structure Type | Filter Density (s/mm2) | Concen- tration* (struct/cc) | 95% Confidence Interval (struct/cc) | Struct Count¹ Prim/Total | Analytical Sens. (sruct/cc) : |
| S1 | CL-58 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |
| S 2 | CL-59 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |
| 83 | 09-TO | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |
| 84 | CL-61 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S2 | CL-62 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| 98 | CL-63 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S7 | CL-64 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| 88 | CL-65 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| 68 | CL-66 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S10 | CL-67 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S11 | CL-68 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S12 | 69-TO | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S13 | CL-70 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| | | | | | | | |

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Rapid Summary - Final Report

Report Number: 220340R01 Date Received: 4/4/2022

Phone: (206) 781-0155 http://www.labcor.net

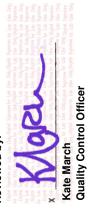
Job Number: 220340

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

| Lab/Cor | Client Sample No. | Structure | Filter | Concen- | 95% Confidence | Struct | Analytical |
|------------|-------------------|-----------|---------|-------------|----------------|------------|-------------|
| Sample No. | | Type | Density | tration* | Interval | Count | Sens. |
| <u>.</u> | | | (s/mm2) | (struct/cc) | (struct/cc) | Prim/Total | (sruct/cc): |

Reviewed by:



* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data -Final Report

Job Number: 220340

Client: PBS Engineering + Environmental Report Number: 220340R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/4/2022

Volume (L): 0 Lab/Cor Sample No.: S1

Client Sample No.: CL-58 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 10 Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.0106 SB 4/4/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.106

Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Col | cture unt¹ /Total |
|---------------------------|------------------------------|-----------------------------------|--|-----|-------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Volume (L): 0

Client Sample No.: CL-59 Lab Filter Area (mm2): 385 Grid Openings Analyzed: 10 Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.106

SB 4/4/2022 JEOL-Sr 1200 20000 Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struc Cou Prim/ | ınt¹ |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------|------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Volume (L): 0 Lab/Cor Sample No.: S3 Client Sample No.: CL-60 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 10 Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.0106 SB 4/4/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.106

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|---|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | ot Applicable Not Applicable | | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable Not Applicable | | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220340 SEA

Client: PBS Engineering + Environmental Report Number: 220340R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/4/2022

Lab/Cor Sample No.: S4 Volume (L): 1250

Client Sample No.: CL-61 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 4/4/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 6
Average Grid Opening Area: 0.0106
Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Cour | Structure Count¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|------|-----------------------------------|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |
| AHERA >=5.0μm, 5:1 | 0 < 0.005 0 - 0. | | 0 - 0.018 - Poisson | 0 | | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S5 Volume (L): 1250

Client Sample No.: CL-62

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification
SB 4/4/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | μ m, 5:1 0 < 0.005 | | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | < 0.005 0 - 0.018 - Poisson 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S6

Volume (L): 1250

Client Sample No.: CL-63

Analyst(s) Analysis Date SB 4/4/2022 JEOL-Sr 1200 Magnification JEOL-Sr 1200 20000

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 1 0 < 0.005 0 - 0.018 | | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220340 SEA

Client: PBS Engineering + Environmental Report Number: 220340R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/4/2022

Lab/Cor Sample No.: S7 Volume (L): 1250

Client Sample No.: CL-64 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 4/4/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 6
Average Grid Opening Area: 0.0106
Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Cour | Structure Count ¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|------|---|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |
| AHERA >=5.0μm, 5:1 | 0 | 0 < 0.005 0 - 0.018 - Poisson | | | | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S8 Volume (L): 1250

Client Sample No.: CL-65

Lab Filter Area (mm2): 385

Analyst(s) Analysis Data Microscope Magnification

Analysis Data Microscope 6

Analyst(s) Analysis Date Microscope SB 4/4/2022 JEOL-Sr 1200 20000 Magnification 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | μ m, 5:1 0 < 0.005 | | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | < 0.005 0 - 0.018 - Poisson 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S9

Client Sample No.: CL-66

Volume (L): 1250

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification SB 4/4/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 383

Analyst(s) Analysis Date Microscope Magnification Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 1 0 < 0.005 0 - 0.018 | | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220340 SEA

Client: PBS Engineering + Environmental Report Number: 220340R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/4/2022

Lab/Cor Sample No.: \$10 Volume (L): 1250

Client Sample No.: CL-67 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 4/4/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 6
Average Grid Opening Area: 0.0106
Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Cour | Structure Count¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|------|-----------------------------------|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |
| AHERA >=5.0μm, 5:1 | 0 < 0.005 0 - 0. | | 0 - 0.018 - Poisson | 0 | | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S11 Volume (L): 1250

Client Sample No.: CL-68

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification
SB 4/4/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | 0 < 0.005 0 - 0.018 - Poisson | | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S12

Client Sample No.: CL-69

Volume (L): 1250

Lab Filter Area (mm2): 385

Client Sample No.: CL-69

Analyst(s) Analysis Date SB 4/4/2022 JEOL-Sr 1200 Magnification JEOL-Sr 1200 20000

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220340 SEA

Client: PBS Engineering + Environmental Report Number: 220340R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/4/2022

Lab/Cor Sample No.: S13 Volume (L): 1250

Client Sample No.: CL-70 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 4/4/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 6
Average Grid Opening Area: 0.0106
Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Cou | Structure Count¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|-----|-----------------------------------|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |
| AHERA >=5.0μm, 5:1 | 0 | 0 < 0.005 0 - 0.018 - Poisson | | 0 | | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

X Kate March



AHERA Raw Data - Final Report

Job Number: 220340 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220340R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/4/2022

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: CL-58

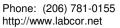
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G51 | | | NSD | | | | | | | |
| G1 | 4 | E42 | | | NSD | | | | | | | |
| G1 | 5 | F41 | | | NSD | | | | | | | |
| G2 | 6 | F43 | | | NSD | | | | | | | |
| G2 | 7 | F44 | | | NSD | | | | | | | |
| G2 | 8 | G43 | | | NSD | | | | | | | |
| G2 | 9 | G44 | | | NSD | | | | | | | |
| G2 | 10 | H43 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: CL-59

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E34 | | | NSD | | | | | | | |
| G1 | 2 | F33 | | | NSD | | | | | | | |
| G1 | 3 | F34 | | | NSD | | | | | | | |
| G1 | 4 | G33 | | | NSD | | | | | | | |
| G1 | 5 | G34 | | | NSD | | | | | | | |
| G2 | 6 | C44 | | | NSD | | | | | | | |
| G2 | 7 | E43 | | | NSD | | | | | | | |
| G2 | 8 | E44 | | | NSD | | | | | | | |
| G2 | 9 | F43 | | | NSD | | | | | | | |
| G2 | 10 | F44 | | | NSD | | | | | | | |

Lab/Cor Sample No: S3
Client Sample No: CL-60

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C44 | | | NSD | | | | | | | |
| G1 | 2 | E43 | | | NSD | | | | | | | |
| G1 | 3 | E44 | | | NSD | | | | | | | |
| G1 | 4 | F43 | | | NSD | | | | | | | |
| G1 | 5 | F44 | | | NSD | | | | | | | |
| G2 | 6 | C42 | | | NSD | | | | | | | |
| G2 | 7 | E41 | | | NSD | | | | | | | |
| G2 | 8 | E42 | | | NSD | | | | | | | |
| G2 | 9 | F41 | | | NSD | | | | | | | |
| G2 | 10 | F42 | | | NSD | | | | | | | |





Job Number: 220340 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + EnvironmentalReport Number: 220340R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 4/4/2022

Lab/Cor Sample No: S4
Client Sample No: CL-61

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | F41 | | | NSD | | | | | | | |
| G1 | 3 | F33 | | | NSD | | | | | | | |
| G1 | 4 | G33 | | | NSD | | | | | | | |
| G2 | 5 | F44 | | | NSD | | | | | | | |
| G2 | 6 | G43 | | | NSD | | | | | | | |

Lab/Cor Sample No: S5 Client Sample No: CL-62

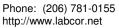
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | F41 | | | NSD | | | | | | | |
| G1 | 3 | F33 | | | NSD | | | | | | | |
| G2 | 4 | F44 | | | NSD | | | | | | | |
| G2 | 5 | G43 | | | NSD | | | | | | | |
| G2 | 6 | G51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S6
Client Sample No: CL-63

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | NSD | | | | | | | |
| G1 | 2 | F43 | | NSD | | | | | | | |
| G1 | 3 | F51 | | NSD | | | | | | | |
| G2 | 4 | E42 | | NSD | | | | | | | |
| G2 | 5 | F41 | | NSD | | | | | | | |
| G2 | 6 | F33 | | NSD | | | | | | | |

Lab/Cor Sample No: S7
Client Sample No: CL-64

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | | NSD | | | | | | | |
| G1 | 2 | F43 | | | NSD | | | | | | | |
| G1 | 3 | F51 | | | NSD | | | | | | | |
| G2 | 4 | E44 | | | NSD | | | | | | | |
| G2 | 5 | F43 | | | NSD | | | | | | | |
| G2 | 6 | F51 | | | NSD | | | | | | | |





Job Number: 220340 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + EnvironmentalReport Number: 220340R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 4/4/2022

Lab/Cor Sample No: S8
Client Sample No: CL-65

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | NSD | | | | | | | |
| G1 | 2 | F43 | | NSD | | | | | | | |
| G1 | 3 | G51 | | NSD | | | | | | | |
| G2 | 4 | E44 | | NSD | | | | | | | |
| G2 | 5 | F43 | | NSD | | | | | | | |
| G2 | 6 | F51 | | NSD | | | | | | | |

Lab/Cor Sample No: S9 Client Sample No: CL-66

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F42 | | | NSD | | | | | | | |
| G1 | 2 | G41 | | | NSD | | | | | | | |
| G1 | 3 | G33 | | | NSD | | | | | | | |
| G2 | 4 | E44 | | | NSD | | | | | | | |
| G2 | 5 | F43 | | | NSD | | | | | | | |
| G2 | 6 | F51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S10 Client Sample No: CL-67

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E32 | | NSD | | | | | | | |
| G1 | 2 | F31 | | NSD | | | | | | | |
| G1 | 3 | F23 | | NSD | | | | | | | |
| G2 | 4 | G42 | | NSD | | | | | | | |
| G2 | 5 | H41 | | NSD | | | | | | | |
| G2 | 6 | H33 | | NSD | | | | | | | |

Lab/Cor Sample No: S11
Client Sample No: CL-68

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C42 | | | NSD | | | | | | | |
| G1 | 2 | E41 | | | NSD | | | | | | | |
| G1 | 3 | E33 | | | NSD | | | | | | | |
| G2 | 4 | E44 | | | NSD | | | | | | | |
| G2 | 5 | F43 | | | NSD | | | | | | | |
| G2 | 6 | F51 | | | NSD | | | | | | | |





AHERA Raw Data -Final Report

Method 40-CFR Part 763 App. A, Subpart E Job Number: 220340 **SEA**

Client: PBS Engineering + Environmental Report Number: 220340R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/4/2022

Lab/Cor Sample No: S12 Client Sample No: CL-69

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | NSD | | | | | | | |
| G1 | 2 | G43 | | NSD | | | | | | | |
| G1 | 3 | G51 | | NSD | | | | | | | |
| G2 | 4 | F44 | | NSD | | | | | | | |
| G2 | 5 | G43 | | NSD | | | | | | | |
| G2 | 6 | G51 | | NSD | | | | | | | |

Lab/Cor Sample No: S13 Client Sample No: CL-70

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-------|----------|-------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | F41 | | | NSD | | | | | | | |
| G1 | 3 | F33 | | | NSD | | | | | | | |
| G2 | 4 | E42 | | | NSD | | | | | | | |
| G2 | 5 | F41 | | | NSD | | | | | | | |
| G2 | 6 | F33 | | | NSD | | | | | | | |
| Count | t Catego | ories | | | | | | | | | | |

AHERA AHERA TOTAL >=0.5, 5:1 AHERA_0.5-5.0 AHERA >=0.5 to 5.0 μ m, 5:1 AHERA_5.0 AHERA >=5.0μm, 5:1

Reviewed by:

Kate March

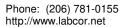
Quality Control Officer



PBS Engineering and Environmental Inc. 214 E GALEN STREET, SUITE 300 SEATHE, WAY-98102 206.233.939

LABORATORY DATA SHEET

| | pbsus | pbsusa.com | | | | | | | | | | |
|--|---------------|---------------------------------|--------------|---------------------|-----------|--------------|------------|-----------|-------|------------------------------|---------------------------|----------------------------------|
| Project Name: Pierce College Olympic South Abatement and Repairs | Olympic South | Abatement and Repairs | | | WEATHE | EATHER/TEMP: | | Comments: | ts: | | | 1 |
| Project No.: 40535.488 | | I.H. Ock Steward | | | 50. | | | ZHHR | TA | Îu | 24HR TATE From results to | 15 6 |
| Location: Lakewood, WA | | SAMPLE MEDIA/ANALYTICAL METHOD: | 30: | | | | | gregg. | Midd | lough & | pbs wa. | gragg. Middough @pbs wa. com and |
| Contractor: Dickson | | | | | | | | clair. | tail | claire. tail a) phosusa. com | Com | |
| Client: DES | | AHERA | | | | | | | | | | |
| RELINQUISHED BY (SIGN.): | DATE/TIME: 4/ | E4/1/2022 | ANALYZED BY: | ВҮ: | | | DATE/TIME: | ME: | | TWA: | | |
| RECEIVED BY (SIGN.): | DATE/TIME: | 000 | ANALYZED BY: | BY: | | | DATE/TIME: | ME: | | | | |
| CODES: P PERSONAL | | | PRE | PRE-ABATEMENT | EMENT | | | SLOVE BA | G ARE | | | |
| IWA INSIDE AREA OWA OUTSIDE AREA | | A AMBIENT AIR B BLANK | TEM | EXCURSION CLEARANCE | OE SAMPLE | | Η - | HEPA | | | | |
| DATE SAMPLE CODE | PUMP | LOCATION ACTIVITY / PERSON | BLANK | AMIL | TIME | TOTAL | DRF | FLOW | AVG | TOTAL | E E E | FIB |
| S 85-17 | | Lab Blank | | | | | _ | - | 1 | 1 | | |
| CL-59 B | | 0 | | | 1 | | | | 1 | 1 | | |
| cl-60 B | \ | Field Black 2 | | 1 | | | | | | 1 | | |
| CL-61 TEM | 16714 | LVI 3 SE in containment | | 1206 | P05 | 125 | 0 | c | 10 | 1250 | | |
| CL-62 TEM | 1 13 | LVI 3 SW in continuent | | 1200 | 1405 | 125 | 0 | 0 | ō | 1286 | | |
| CL-C3 TEM | 4173 | LVI 3 NE in containment | | 1200 | lyos | 125 | 0 | 0 | 0 | 1250 | | |
| CL-CY TEM | 7508 | LVI 3 NW in containment | | 1200 | 1405 | 125 | G | c | ō | 1,250 | | |
| J-1 | - | WIS No consinuat raised | | 1200 | 1405 | 125 | ō | ō | 0 | 1250 | | |
| 1 33 | _ | LM 3 E of containment of | | 1214 | 14/9 | 125 | ō | 0 | - | 1,250 | | |
| - | 7052 | LVI 3 W of continual (DX | | 12/5 | 1420 | 125 | 0 | 0 | 0 | 1,250 | | |
| CL-C8 TEM | 8691 | Roof S outside | | 1218 | 1423 | 125 | 0 | 0 | ō | 1250 | | |
| CL-69 TEM | 2828 | Rest N outside | | 1218 | 1423 | 125 | 0 | ō | 0 | 1280 | | |
| CL-70 TEM | 1 HV19-9 | Bothern of F String multiple | | 1222 | 1427 | 125 | 0 | 0 | 10 | 1250 | | |
| | | | | | | | | | | | | |
| Recount Sample # | Recount | | 0.4 | | | | | | | | | |





AHERA Final Report

Job Number: 220348

Client: PBS Engineering + Environmental

Report Number: 220348R01

Report Date: 4/6/2022

Client: PBS Engineering + Environmental Address: 214 E Galer Street

Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project Num: 40535.488

PO Number: Sub Project:

PASSES AHERA Initial Screening Test with <70 s/mm2. PASSES AHERA Blank Contamination Test with <70 s/mm2. PASSES AHERA Z-Test, Z-score <1.65.

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes Date Sampled: | Date Received: |
|--------------|----------------------|----------|------------------------------|----------------|
| 220348 - S1 | CL-71 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S2 | CL-72 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S3 | CL-73 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S4 | CL-74 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S5 | CL-75 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S6 | CL-76 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S7 | CL-77 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S8 | CL-78 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S9 | CL-79 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S10 | CL-80 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S11 | CL-81 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S12 | CL-82 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S13 | CL-83 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S14 | CL-84 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S15 | CL-85 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S16 | CL-86 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S17 | CL-87 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S18 | CL-88 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S19 | CL-89 | AHERA | 4/5/2022 | 4/5/2022 |
| 220348 - S20 | CL-90 | AHERA | 4/5/2022 | 4/5/2022 |



AHERA Final Report

Job Number: 220348 Report Number: 220348R01 **Report Date:** 4/6/2022 Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

AHERA - Method Preparation and analysis of the above samples was conducted in accordance with the AHERA method (40-CFR Part 763 40-CFR Part 763 Subpart E, Appendix A) for the identification of asbestos. Briefly, the samples were collapsed with a solution of N,N-App. A, Subpart E dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at approximate screen magnification of between 15,000x-20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification. Grid preparations are evaluated by the analyst before commencing analysis. Proper preparations have >75% replicate coverage, have a 10% etch rate, have acceptable particulate loading and show no evidence of preparation remnants (chemical or material).

> Passing criteria for the initial clearance as defined by the method is based on the Filter Density (str/mm2). The Total Filter Density is divided by the number of inside work area samples; if the average Filter Density is >70 str/mm2 the sample set fails initial AHERA clearance criteria.

Disclaimer This test report shall not be reproduced, except in full, without written approval of the laboratory. The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in either structures/cm3 or structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Reviewed by:

Kate March

Quality Control Officer

Report Number: 220348R01 Date Received: 4/5/2022



Job Number: 220348

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

AHERA Rapid Summary - Final Report

| Lab/Cor Sample No. | Client Sample No. | Structure Type | Filter Density (s/mm2) | Concentration* (struct/cc) | 95% Confidence Interval (struct/cc) | Struct Count¹ Prim/Total | Analytical Sens. (sruct/cc) : |
|-----------------------|-------------------|------------------------|------------------------------|----------------------------|---|--------------------------------|-------------------------------------|
| S | CL-71 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | AN |
| 82 | CL-72 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | AN |
| S3 | CL-73 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |
| S4 | CL-74 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| SS | CL-75 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| 98 | CL-76 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S7 | CF-77 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| 88 | CL-78 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| 65 | CL-79 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S10 | CL-80 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S11 | CL-81 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S12 | CL-82 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S13 | CL-83 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S14 | CL-84 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S15 | CL-85 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S16 | 98-TO | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Rapid Summary - Final Report

Report Number: 220348R01 Date Received: 4/5/2022

Phone: (206) 781-0155 http://www.labcor.net

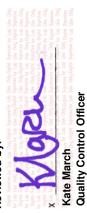
Job Number: 220348 SEA

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

(sruct/cc): Analytical Sens. 0.00484 0.00484 0.00484 0.00484 Prim/Total Struct Count 0 0 0 0 0 - 0.018 - Poisson 0 - 0.018 - Poisson 0 - 0.018 - Poisson 0 - 0.018 - Poisson 95% Confidence (struct/cc) Interval Concentration* (struct/cc) < 0.005 < 0.005 < 0.005 < 0.005 Filter Density (s/mm2) 0 0 0 0 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 Structure Type Client Sample No. CL-87 CL-88 CL-89 CL-90 Sample No. Lab/Cor **S18 S17 S19 S20**

Reviewed by:



^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Summary Data - Final Report

Job Number: 220348 SEA

Client: PBS Engineering + Environmental Report Number: 220348R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/5/2022

Lab/Cor Sample No.: S1 Volume (L): 0

Client Sample No.: CL-71

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 4/6/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 10

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.106

Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structu Count Prim/To | it¹ |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Volume (L): 0

Client Sample No.: CL-72 Lab Filter Area (mm2): 385
Grid Openings Analyzed: 10

Analyst(s) Analysis Date Microscope Magnification
SB 4/6/2022 JEOL-Sr 1200 20000 Area Analyzed : 10

Average Grid Opening Area : 0.0106

Area Analyzed (mm2) : 0.106

Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structi Coun Prim/Te | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|----------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S3

Volume (L): 0

Client Sample No.: CL-73

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification

Grid Openings Analyzed: 10

SB 4/6/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.106
Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | | cture unt¹ /Total |
|---------------------------|------------------------------|-----------------------------------|--|---|-------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data -Final Report

Job Number: 220348

SB

4/6/2022

Client: PBS Engineering + Environmental Report Number: 220348R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/5/2022

Volume (L): 1250 Lab/Cor Sample No.: \$4

Client Sample No.: CL-74 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6 **Analysis Date** Magnification Analyst(s) Microscope Average Grid Opening Area: 0.0106 SB 4/6/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structi Coun Prim/To | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|----------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

JEOL-Sr 1200

Lab/Cor Sample No.: \$5 Volume (L): 1250

Client Sample No.: CL-75 Lab Filter Area (mm2): 385 **Grid Openings Analyzed**: 6 **Analysis Date** Analyst(s) Microscope Magnification

Average Grid Opening Area: 0.0106 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428 Structure Structure Filter Concen-95% Confidence

| Туре | Density (s/mm2) | tration* (struc/cc) | Interval (struc/cc) | Count¹ Prim/Total |
|---------------------------|--------------------|------------------------|------------------------|----------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Volume (L): 1250 Lab/Cor Sample No.: S6

Client Sample No.: CL-76 Lab Filter Area (mm2): 385 Grid Openings Analyzed: 6 Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.0106 SB 4/6/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220348 SEA

Client: PBS Engineering + Environmental Report Number: 220348R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/5/2022

Lab/Cor Sample No.: \$7 Volume (L): 1250

Client Sample No.: CL-77 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 4/6/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 6
Average Grid Opening Area: 0.0106
Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structi Coun Prim/To | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|----------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S8 Volume (L): 1250

Client Sample No.: CL-78

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification

Analysis Date Microscope Magnification

SB 4/6/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S9

Volume (L): 1250

Client Sample No.: CL-79

Analyst(s)
SB

4/6/2022

Analysis Date
JEOL-Sr 1200

Analysis Date
SB

Analysis Date
Average Grid Opening Area: 0.0106

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220348 SEA

Client: PBS Engineering + Environmental Report Number: 220348R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/5/2022

Lab/Cor Sample No.: \$10 Volume (L): 1250

Client Sample No.: CL-80 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 4/6/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 6
Average Grid Opening Area: 0.0106
Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Count | Structure Count ¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|-------|---|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: \$11 Volume (L): 1250

Client Sample No.: CL-81

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification

Analysis Date Microscope Magnification

SB 4/6/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | AHERA >=5.0μm, 5:1 0 < 0.005 | | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S12

Volume (L): 1250

Client Sample No.: CL-82

Analyst(s)
SB

4/6/2022

Analysis Date
Algorithms

Microscope
Algorithms

Magnification
20000

Magnification
20000

Average Grid Opening Area: 0.0106

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data -Final Report

Job Number: 220348

Client: PBS Engineering + Environmental Report Number: 220348R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/5/2022

Volume (L): 1250 Lab/Cor Sample No.: S13

Client Sample No.: CL-83 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6 **Analysis Date** Magnification Analyst(s) Microscope Average Grid Opening Area: 0.0106 SB 4/6/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Count | Structure Count ¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|-------|---|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S14 Volume (L): 1250

Client Sample No.: CL-84 Lab Filter Area (mm2): 385 **Grid Openings Analyzed:** 6 **Analysis Date** Analyst(s) Microscope Magnification Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0636

4/6/2022 SB JEOL-Sr 1200 20000 Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Volume (L): 1250 Lab/Cor Sample No.: S15

Client Sample No.: CL-85 Lab Filter Area (mm2): 385 Grid Openings Analyzed: 6 Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.0106 SB 4/6/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220348 SEA

SB

4/6/2022

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Date Received: 4/5/2022

Lab/Cor Sample No.: \$16 Volume (L): 1250

Client Sample No.: CL-86 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6 **Analysis Date** Magnification Analyst(s) Microscope Average Grid Opening Area: 0.0106 SB 4/6/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636 KM 4/6/2022 JEOL-Sr 1200 20000 Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|---|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: \$17 Volume (L): 1250

Client Sample No.: CL-87

Analyst(s)

Analysis Date

Microscope

Magnification

Average Grid Opening Area: 0.0106

Average Grid Opening Area: 0.0106

JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636
Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S18

Volume (L): 1250

Client Sample No.: CL-88

Analyst(s)
SB

4/6/2022

Analysis Date
Alforoscope
SB

4/6/2022

JEOL-Sr 1200

Analysis Date
Average Grid Opening Analyzed: 0.0106

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220348 SEA

Client: PBS Engineering + Environmental Report Number: 220348R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/5/2022

Lab/Cor Sample No.: \$19 Volume (L): 1250

Client Sample No.: CL-89 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 4/6/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 6
Average Grid Opening Area: 0.0106
Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S20 Volume (L): 1250

Client Sample No.: CL-90

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification
SB 4/6/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

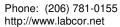
Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

X Kate March
Quality Control Officer





Job Number: 220348 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220348R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/5/2022

Project No.: 40535.488

Lab/Cor Sample No: S1
Client Sample No: CL-71

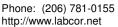
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C42 | | | NSD | | | • | | | | <u> </u> |
| G1 | 2 | E41 | | | NSD | | | | | | | |
| G1 | 3 | E33 | | | NSD | | | | | | | |
| G1 | 4 | F34 | | | NSD | | | | | | | |
| G1 | 5 | G33 | | | NSD | | | | | | | |
| G2 | 6 | E44 | | | NSD | | | | | | | |
| G2 | 7 | F43 | | | NSD | | | | | | | |
| G2 | 8 | F51 | | | NSD | | | | | | | |
| G2 | 9 | F42 | | | NSD | | | | | | | |
| G2 | 10 | G41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: CL-72

| G1 1 F44 NSD G1 2 G43 NSD G1 3 G51 NSD G1 4 C32 NSD G1 5 E31 NSD G2 6 E34 NSD G2 7 F33 NSD G2 8 F44 NSD G2 9 G43 NSD G2 10 G51 NSD | Gr | No. | Loc. | ID Prim To | t Class | Length | Width Asp | ect Analyte | e Elements | Comment | Count Categories |
|--|----|-----|------|------------|---------|--------|-----------|-------------|------------|---------|------------------|
| G1 3 G51 NSD G1 4 C32 NSD G1 5 E31 NSD G2 6 E34 NSD G2 7 F33 NSD G2 8 F44 NSD G2 9 G43 NSD | G1 | 1 | F44 | | NSD | | | | | | |
| G1 4 C32 NSD G1 5 E31 NSD G2 6 E34 NSD G2 7 F33 NSD G2 8 F44 NSD G2 9 G43 NSD | G1 | 2 | G43 | | NSD | | | | | | |
| G1 5 E31 NSD G2 6 E34 NSD G2 7 F33 NSD G2 8 F44 NSD G2 9 G43 NSD | G1 | 3 | G51 | | NSD | | | | | | |
| G2 6 E34 NSD G2 7 F33 NSD G2 8 F44 NSD G2 9 G43 NSD | G1 | 4 | C32 | | NSD | | | | | | |
| G2 7 F33 NSD G2 8 F44 NSD G2 9 G43 NSD | G1 | 5 | E31 | | NSD | | | | | | |
| G2 8 F44 NSD G2 9 G43 NSD | G2 | 6 | E34 | | NSD | | | | | | |
| G2 9 G43 NSD | G2 | 7 | F33 | | NSD | | | | | | |
| | G2 | 8 | F44 | | NSD | | | | | | |
| G2 10 G51 NSD | G2 | 9 | G43 | | NSD | | | | | | |
| | G2 | 10 | G51 | | NSD | | | | | | |

Lab/Cor Sample No: S3 Client Sample No: CL-73

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | | NSD | | | | | | | |
| G1 | 2 | F43 | | | NSD | | | | | | | |
| G1 | 3 | F51 | | | NSD | | | | | | | |
| G1 | 4 | G51 | | | NSD | | | | | | | |
| G1 | 5 | G43 | | | NSD | | | | | | | |
| G2 | 6 | F42 | | | NSD | | | | | | | |
| G2 | 7 | G41 | | | NSD | | | | | | | |
| G2 | 8 | G33 | | | NSD | | | | | | | |
| G2 | 9 | E32 | | | NSD | | | | | | | |
| G2 | 10 | F31 | | | NSD | | | | | | | |





Job Number: 220348 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220348R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/5/2022

Lab/Cor Sample No: S4 Client Sample No: CL-74

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C42 | | NSD | | | | | | | |
| G1 | 2 | E41 | | NSD | | | | | | | |
| G1 | 3 | E33 | | NSD | | | | | | | |
| G2 | 4 | C44 | | NSD | | | | | | | |
| G2 | 5 | E43 | | NSD | | | | | | | |
| G2 | 6 | E51 | | NSD | | | | | | | |

Lab/Cor Sample No: S5 **Client Sample No:** CL-75

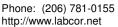
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | F41 | | | NSD | | | | | | | |
| G1 | 3 | G33 | | | NSD | | | | | | | |
| G2 | 4 | E44 | | | NSD | | | | | | | |
| G2 | 5 | F43 | | | NSD | | | | | | | |
| G2 | 6 | F51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S6 **Client Sample No:** CL-76

| Gr | No. | Loc. | ID Pr | rim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------|---------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C44 | | | NSD | | | | | | | |
| G1 | 2 | E43 | | | NSD | | | | | | | |
| G1 | 3 | E51 | | | NSD | | | | | | | |
| G2 | 4 | C44 | | | NSD | | | | | | | |
| G2 | 5 | C52 | | | NSD | | | | | | | |
| G2 | 6 | E51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S7
Client Sample No: CL-77

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E34 | | | NSD | | | | | | | |
| G1 | 2 | F33 | | | NSD | | | | | | | |
| G1 | 3 | F41 | | | NSD | | | | | | | |
| G2 | 4 | C44 | | | NSD | | | | | | | |
| G2 | 5 | E43 | | | NSD | | | | | | | |
| G2 | 6 | E51 | | | NSD | | | | | | | |





Job Number: 220348 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220348R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/5/2022

Lab/Cor Sample No: S8
Client Sample No: CL-78

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F42 | | NSD | | | | | | | |
| G1 | 2 | F34 | | NSD | | | | | | | |
| G1 | 3 | G33 | | NSD | | | | | | | |
| G2 | 4 | F44 | | NSD | | | | | | | |
| G2 | 5 | G43 | | NSD | | | | | | | |
| G2 | 6 | G51 | | NSD | | | | | | | |

Lab/Cor Sample No: S9 Client Sample No: CL-79

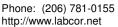
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G51 | | | NSD | | | | | | | |
| G2 | 4 | E52 | | | NSD | | | | | | | |
| G2 | 5 | F51 | | | NSD | | | | | | | |
| G2 | 6 | F43 | | | NSD | | | | | | | |

Lab/Cor Sample No: S10 Client Sample No: CL-80

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G51 | | | NSD | | | | | | | |
| G2 | 4 | E34 | | | NSD | | | | | | | |
| G2 | 5 | F33 | | | NSD | | | | | | | |
| G2 | 6 | F41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S11
Client Sample No: CL-81

| Gr | No. | Loc. | ID Prim | Tot Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|---------|-----------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | NSD | | | | | | | |
| G1 | 2 | F41 | | NSD | | | | | | | |
| G1 | 3 | F33 | | NSD | | | | | | | |
| G2 | 4 | E42 | | NSD | | | | | | | |
| G2 | 5 | F41 | | NSD | | | | | | | |
| G2 | 6 | F33 | | NSD | | | | | | | |





Job Number: 220348 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220348R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/5/2022

Lab/Cor Sample No: S12 Client Sample No: CL-82

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | NSD | | | | | | | |
| G1 | 2 | G43 | | NSD | | | | | | | |
| G1 | 3 | G51 | | NSD | | | | | | | |
| G2 | 4 | E44 | | NSD | | | | | | | |
| G2 | 5 | F43 | | NSD | | | | | | | |
| G2 | 6 | F51 | | NSD | | | | | | | |

Lab/Cor Sample No: S13 Client Sample No: CL-83

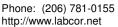
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F34 | | | NSD | | | | | | | |
| G1 | 2 | F42 | | | NSD | | | | | | | |
| G1 | 3 | G41 | | | NSD | | | | | | | |
| G2 | 4 | F44 | | | NSD | | | | | | | |
| G2 | 5 | G43 | | | NSD | | | | | | | |
| G2 | 6 | G51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S14 Client Sample No: CL-84

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | NSD | | | | | | | |
| G1 | 2 | F43 | | NSD | | | | | | | |
| G1 | 3 | F51 | | NSD | | | | | | | |
| G2 | 4 | E42 | | NSD | | | | | | | |
| G2 | 5 | F41 | | NSD | | | | | | | |
| G2 | 6 | F33 | | NSD | | | | | | | |

Lab/Cor Sample No: S15 Client Sample No: CL-85

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | | NSD | | | | | | | |
| G1 | 2 | F43 | | | NSD | | | | | | | |
| G1 | 3 | F51 | | | NSD | | | | | | | |
| G2 | 4 | E42 | | | NSD | | | | | | | |
| G2 | 5 | F41 | | | NSD | | | | | | | |
| G2 | 6 | F33 | | | NSD | | | | | | | |





Job Number: 220348 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220348R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/5/2022

Lab/Cor Sample No: S16 Client Sample No: CL-86

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width A | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|---------|--------|---------|----------|---------|------------------|
| G1 | 1 | F41 | | NSD | | | | | | | |
| G1 | 2 | F34 | | NSD | | | | | | | |
| G1 | 3 | G42 | | NSD | | | | | | | |
| G2 | 4 | E34 | | NSD | | | | | | | |
| G2 | 5 | F33 | | NSD | | | | | | | |
| G2 | 6 | F41 | | NSD | | | | | | | |

Lab/Cor Sample No: S17 Client Sample No: CL-87

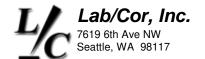
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C54 | | | NSD | | | | | | | |
| G1 | 2 | E53 | | | NSD | | | | | | | |
| G1 | 3 | E61 | | | NSD | | | | | | | |
| G2 | 4 | E44 | | | NSD | | | | | | | |
| G2 | 5 | F43 | | | NSD | | | | | | | |
| G2 | 6 | F51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S18
Client Sample No: CL-88

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | NSD | | | | | | | |
| G1 | 2 | F43 | | NSD | | | | | | | |
| G1 | 3 | F51 | | NSD | | | | | | | |
| G2 | 4 | E42 | | NSD | | | | | | | |
| G2 | 5 | F41 | | NSD | | | | | | | |
| G2 | 6 | F33 | | NSD | | | | | | | |

Lab/Cor Sample No: S19 Client Sample No: CL-89

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | | NSD | | | | | | | |
| G1 | 2 | F43 | | | NSD | | | | | | | |
| G1 | 3 | F51 | | | NSD | | | | | | | |
| G2 | 4 | E42 | | | NSD | | | | | | | |
| G2 | 5 | F41 | | | NSD | | | | | | | |
| G2 | 6 | F33 | | | NSD | | | | | | | |



AHERA Raw Data -Final Report

Method 40-CFR Part 763 App. A, Subpart E Job Number: 220348 SEA

Client: PBS Engineering + Environmental Report Number: 220348R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/5/2022

Lab/Cor Sample No: S20 Client Sample No: CL-90

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-------|--------|-------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F42 | | | NSD | | | | | | | |
| G1 | 2 | F41 | | | NSD | | | | | | | |
| G1 | 3 | F33 | | | NSD | | | | | | | |
| G2 | 4 | E42 | | | NSD | | | | | | | |
| G2 | 5 | F41 | | | NSD | | | | | | | |
| G2 | 6 | F33 | | | NSD | | | | | | | |
| Count | Catego | ories | | | | | | | | | | |

AHERA AHERA TOTAL >=0.5, 5:1 AHERA_0.5-5.0 AHERA >= 0.5 to $5.0\mu m$, 5:1AHERA_5.0 AHERA >=5.0μm, 5:1

Reviewed by:

Kate March

Quality Control Officer



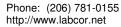
PBS Engineering and Environmental Inc. 1141 GALESTRUS, SUITE 500 SEATILE, WAS 98102 206-134-939

LABORATORY DATA SHEET

| roject Name: Pi | ierce Coll | ege Olyn | pic South / | Project Name: Pierce College Olympic South Abatement and Repairs | | | WEATH | WEATHER/TEMP: | | Comme | nts: 24H | R TAT E | Comments: 24HR TAT Email results to | s to |
|--------------------------|------------|----------|-------------|--|--------------|------------------|----------|---------------|------------|----------------|-------------------|--|---|------|
| Project No.: 40535.488 | 35.488 | | | I.H.: Peter Stensland | | | 50s | | | Gregg.N | 1iddaug ai@pbs | Gregg.Middaugh@pbsus Claire.Tsai@pbsusa.com | Gregg.Middaugh@pbsusa.com and Claire.Tsai@pbsusa.com | |
| Location: Lakewood, WA | ood, WA | | | SAMPLE MEDIA/ANALYTICAL METHOD: | Ö | | | | | | | | | |
| Contractor: Dickson | son | | | AHERA | | | | | | | | | | |
| Client DES | | | | | | | | | | | | | | |
| RELINQUISHED BY (SIGN.): | BY (SIG | | DATE/TIME | DATE/TIME: 4/5/2022 | ANALYZED BY: | BY: | Ī | | DATE/TIME: | ME: | | TWA: | | |
| Peter Stensland | | | Pet | 1 touth | 10.00 | | | | | | | | | |
| RECEIVED BY (SIGN.): | SIGN.): | | LA S P | 4:10 | ANALYZED BY: | BY: | | | DATE/TIME: | IME | | | | |
| CODES: | DERSONAL | IAN | | CIEABANICE | DRF | DRE ARATEMENT | TINAMA | | GRA | CLOVE BAG AREA | AG ARE | | | |
| IWA | | AREA | D (| | 又 ; | EXCURSION | Z | | I | HEPA | | | | |
| (WO | - | DE AREA | В | | TEM | CLEARANCE SAMPLE | CE SAMPI | E | | | | | | |
| DATE SA | SAMPLE | CODE | PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| | NUMBER | - | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | 22 |
| 4/5/2022 C | CL-71 | В | NA | Lab Blank | | | | | | | | | | |
| 0 | CL-72 | В | NA | Field Blank | | | | | 1 | | | | | |
| 0 | CL-73 | В | NA | Field Blank | | | | | | | | | | |
| 0 | CL-74 | TEM | 7058 | LV2 NE corner by decon | | 7:38 | 9:43 | 125 | 10 | 10 | 10 | 1250 | | |
| 0 | CL-75 | TEM | 13 | LV2 Skybridge to Olympic N | | 7:38 | 9:43 | 125 | 10 | 10 | 10 | 1250 | | |
| 0 | CL-76 | TEM | HV18-38 | LV2 South of stairs | | 7:38 | 9:43 | 125 | 10 | 10 | 10 | 1250 | | |
| 0 | CL-77 | TEM | HV18-1 | LV2 Central E area | | 7:39 | 9:44 | 125 | 10 | 10 | 10 | 1250 | | |
| 0 | CL-78 | TEM | HV19-9 | LV2 Ramp on central corridor | | 7:40 | 9:45 | 125 | 10 | 10 | 10 | 1250 | | |
| 0 | CL-79 | TEM | 8292 | LV2 southwest area near exterior stairs | | 7:40 | 9:45 | 125 | 10 | 10 | 10 | 1250 | | |
| 0 | CL-80 | TEM | 6714 | LV2 SE Main floor | | 7:41 | 9:46 | 125 | 10 | 10 | 10 | 1250 | | |
| 0 | CL-81 | TEM | 4173 | LV2 Hallway between music rooms | | 7:41 | 9:46 | 125 | 10 | 10 | 10 | 1250 | | |
| 0 | CL-82 | TEM | 207067 | LV2 Middle of Rm 284 on the floor | | 7:41 | 9:46 | 125 | 10 | 10 | 10 | 1250 | | |
| 0 | CL-83 | TEM | 8297 | LV2 Rm 284 top of scaffolding | | 7:43 | 9:48 | 125 | 10 | 10 | 10 | 1250 | | |
| | CL-84 | TEM | HFP01 | LV2 Rm 283 Center of the floor | | 7:44 | 9:49 | 125 | 10 | 10 | 10 | 1250 | | |
|) | CL-85 | TEM | HFP04 | LV2 Mechanical Mezzanine | | 7:45 | 9:50 | 125 | 10 | 10 | 10 | 1250 | | |
| 0 | CL-86 | TEM | 1696 | LV2 Skybridge to Cascade OWA | | 7:51 | 9:56 | 125 | 10 | 10 | 10 | 1250 | | |
|) | CL-87 | TEM | HV-135 | LvV2 Landing OWA | | 7:52 | 9:57 | 125 | 10 | 10 | 10 | 1250 | | |
| 0 | CL-88 | TEM | 37A | LV1 Exterior anding Outsid Stariwell OWA | | 7:53 | 9:58 | 125 | 10 | 10 | 10 | 1250 | | |
|) (| CL-89 | TEM | 7052 | West elevation N Scaffold OWA | | 7:55 | 10:00 | 125 | 10 | 10 | 10 | 1250 | | |
| | CI -90 | TFM | ×H | West elevation below skybridge OWA | | 7:56 | 10:01 | 125 | 10 | 10 | 10 | 1250 | | |

Results Released:
Fax Verbals USPS
Invoice Released:
USPS Email

Email





AHERA Final Report

Job Number: 220404 Report Number: 220404R01 Report Date: 4/20/2022

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project Num: 40535.488

PO Number: Sub Project:

PASSES AHERA Initial Screening Test with <70 s/mm2. PASSES AHERA Blank Contamination Test with <70 s/mm2. PASSES AHERA Z-Test, Z-score <1.65.

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes Date Sampled: | Date Received: |
|--------------|----------------------|----------|------------------------------|----------------|
| 220404 - S1 | CL94 | AHERA | 4/18/2022 | 4/19/2022 |
| 220404 - S2 | CL95 | AHERA | 4/18/2022 | 4/19/2022 |
| 220404 - S3 | CL96 | AHERA | 4/18/2022 | 4/19/2022 |
| 220404 - S4 | CL97 | AHERA | 4/18/2022 | 4/19/2022 |
| 220404 - S5 | CL98 | AHERA | 4/18/2022 | 4/19/2022 |
| 220404 - S6 | CL99 | AHERA | 4/18/2022 | 4/19/2022 |
| 220404 - S7 | CL100 | AHERA | 4/18/2022 | 4/19/2022 |
| 220404 - S8 | CL101 | AHERA | 4/18/2022 | 4/19/2022 |
| 220404 - S9 | CL102 | AHERA | 4/18/2022 | 4/19/2022 |
| 220404 - S10 | CL103 | AHERA | 4/18/2022 | 4/19/2022 |
| 220404 - S11 | CL91 | AHERA | 4/18/2022 | 4/19/2022 |
| 220404 - S12 | CL92 | AHERA | 4/18/2022 | 4/19/2022 |
| 220404 - S13 | CL93 | AHERA | 4/18/2022 | 4/19/2022 |



AHERA Final Report

Job Number: 220404 Report Number: 220404R01 Client: PBS Engineering + Environmental Report Date: 4/20/2022

Project Name: Pierce College Olympic South Abatement and Repairs

40-CFR Part 763

AHERA - Method Preparation and analysis of the above samples was conducted in accordance with the AHERA method (40-CFR Part 763 Subpart E, Appendix A) for the identification of asbestos. Briefly, the samples were collapsed with a solution of N,N-App. A, Subpart E dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at approximate screen magnification of between 15,000x-20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification. Grid preparations are evaluated by the analyst before commencing analysis. Proper preparations have >75% replicate coverage, have a 10% etch rate, have acceptable particulate loading and show no evidence of preparation remnants (chemical or material).

> Passing criteria for the initial clearance as defined by the method is based on the Filter Density (str/mm2). The Total Filter Density is divided by the number of inside work area samples; if the average Filter Density is >70 str/mm2 the sample set fails initial AHERA clearance criteria.

Disclaimer This test report shall not be reproduced, except in full, without written approval of the laboratory. The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in either structures/cm3 or structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Reviewed by:

Analyst



Job Number: 220404

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

AHERA Rapid Summary - Final Report

Report Number: 220404R01 Date Received: 4/19/2022

Phone: (206) 781-0155 http://www.labcor.net

| Lab/Cor Sample No. | Client Sample No. | Structure Type | Filter Density (s/mm2) | Concentration* (struct/cc) | 95% Confidence Interval (struct/cc) | Struct Count¹ Prim/Total | Analytical Sens. (sruct/cc) : |
|-----------------------|-------------------|------------------------|------------------------------|----------------------------|---|--------------------------------|-------------------------------------|
| S1 | CL94 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | 0.00466 |
| S2 | CL95 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | 0.00466 |
| S3 | 96TO | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | 0.00466 |
| 84 | CL97 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | 0.00466 |
| SS | CL98 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | 0.00466 |
| 98 | CL99 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | 0.00466 |
| S7 | CL100 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | 0.00466 |
| 88 | CL101 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | 0.00466 |
| 68 | CL102 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | 0.00466 |
| S10 | CL103 | AHERA TOTAL >=0.5, 5:1 | 15.7 | 0.005 | 0 - 0.026 - Poisson | - | 0.00466 |
| S11 | CL91 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |
| S12 | CL92 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |
| S13 | CL93 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | AN |
| | | | | | | | |

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Rapid Summary - Final Report

Report Number: 220404R01 Date Received: 4/19/2022

Phone: (206) 781-0155 http://www.labcor.net

Job Number: 220404 SEA

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

(sruct/cc): Analytical Sens. Struct Count¹ Prim/Total 95% Confidence Interval (struct/cc) Concentration* (struct/cc) Filter Density (s/mm2) Structure Type Client Sample No. Sample No. Lab/Cor

Reviewed by:

Shauna Bjornson

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Summary Data - Final Report

Job Number: 220404 SEA

Client: PBS Engineering + Environmental Report Number: 220404R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/19/2022

Lab/Cor Sample No.: S1 Volume (L): 1300

Client Sample No.: CL94 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 4/20/2022 JEOL-Sr 1200 20000 Grid Opening Analyzed: 6

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0046565

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Volume (L): 1300

Client Sample No.: CL95

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification
SB 4/20/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0046565

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S3 Volume (L): 1300

Client Sample No.: CL96

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification
SB 4/20/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220404 SEA

Client: PBS Engineering + Environmental Report Number: 220404R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/19/2022

Lab/Cor Sample No.: S4 Volume (L): 1300

Client Sample No.: CL97 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 4/19/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 6
Average Grid Opening Area: 0.0106
Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0046565

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Cou | cture unt¹ ′Total |
|---------------------------|------------------------------|-----------------------------------|--|-----|-------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S5 Volume (L): 1300

Client Sample No.: CL98

Analyst(s) Analysis Date Microscope Magnification

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification

SB 4/19/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0046565

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S6 Volume (L): 1300

Client Sample No.: CL99

Lab Filter Area (mm2): 385

Analysis Date Microscope Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification
SB 4/19/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data -Final Report

Job Number: 220404

Client: PBS Engineering + Environmental Report Number: 220404R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/19/2022

Lab/Cor Sample No.: S7 Volume (L): 1300

Client Sample No.: CL100 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6 Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.0106 4/19/2022 JEOL-Sr 1200 20000 SB Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0046565

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|---|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Volume (L): 1300 Lab/Cor Sample No.: S8

Client Sample No.: CL101 Lab Filter Area (mm2): 385 **Grid Openings Analyzed**: 6 Analyst(s) **Analysis Date** Microscope Magnification

Average Grid Opening Area: 0.0106 SB 4/19/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0046565

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Volume (L): 1300 Lab/Cor Sample No.: S9

Client Sample No.: CL102 Lab Filter Area (mm2): 385 **Grid Openings Analyzed:** 6

Analysis Date Magnification Analyst(s) Microscope Average Grid Opening Area: 0.0106 SB 4/20/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|---|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data -Final Report

Job Number: 220404

Client: PBS Engineering + Environmental Report Number: 220404R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/19/2022

Lab/Cor Sample No.: S10 Volume (L): 1300

Client Sample No.: CL103 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6 Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.0106 4/20/2022 JEOL-Sr 1200 20000 SB Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0046565

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Col | Structure Count ¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|-----|---|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 15.7 | 0.005 | 0 - 0.026 - Poisson | 1 | | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.017 - Poisson | 0 | | |
| AHERA TOTAL >=0.5, 5:1 | 15.7 | 0.005 | 0 - 0.026 - Poisson | 1 | | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Volume (L): 0 Lab/Cor Sample No.: S11

Client Sample No.: CL91 Lab Filter Area (mm2): 385 Grid Openings Analyzed: 10

Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.0106 SB 4/20/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.106

Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 |
| AHERA TOTAL >=0.5. 5:1 | 0 | Not Applicable | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S12 Volume (L): 0 Client Sample No.: CL92 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 10 **Analysis Date** Magnification Analyst(s) Microscope Average Grid Opening Area: 0.0106 SB 4/20/2022 JEOL-Sr 1200 20000

Area Analyzed (mm2): 0.106

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220404 SEA

Client: PBS Engineering + Environmental Report Number: 220404R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/19/2022

Lab/Cor Sample No.: S13 Volume (L): 0

Client Sample No.: CL93

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 4/20/2022 JEOL-Sr 1200 20000 Grid Opening Analyzed : 10

Average Grid Opening Area : 0.0106

Area Analyzed (mm2) : 0.106

Analytical Sens. (struc/cc): NA

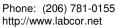
| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total | |
|---------------------------|------------------------------|-----------------------------------|--|---|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

X Diameter

Analyst





Job Number: 220404 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220404R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/19/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: CL94

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | G51 | | | NSD | | | | | | | |
| G1 | 2 | G44 | | | NSD | | | | | | | |
| G1 | 3 | H52 | | | NSD | | | | | | | |
| G2 | 4 | G34 | | | NSD | | | | | | | |
| G2 | 5 | H33 | | | NSD | | | | | | | |
| G2 | 6 | H41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: CL95

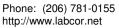
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | F41 | | | NSD | | | | | | | |
| G1 | 3 | F33 | | | NSD | | | | | | | |
| G2 | 4 | E44 | | | NSD | | | | | | | |
| G2 | 5 | F43 | | | NSD | | | | | | | |
| G2 | 6 | F51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S3
Client Sample No: CL96

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | F41 | | | NSD | | | | | | | |
| G1 | 3 | F33 | | | NSD | | | | | | | |
| G2 | 4 | F42 | | | NSD | | | | | | | |
| G2 | 5 | G41 | | | NSD | | | | | | | |
| G2 | 6 | G33 | | | NSD | | | | | | | |

Lab/Cor Sample No: S4 Client Sample No: CL97

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|-------------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | F41 | | | NSD | | | | | | | |
| G1 | 3 | F33 | | | NSD | | | | | | | |
| G2 | 4 | F44 | | | NSD | | | | | | | |
| G2 | 5 | G43 | | | NSD | | | | | | | |
| G2 | 6 | G51 | | | NSD | | | | | | | |





Job Number: 220404 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220404R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/19/2022

Lab/Cor Sample No: S5
Client Sample No: CL98

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | C51 | | | NSD | | | | | | | |
| G1 | 3 | E54 | | | NSD | | | | | | | |
| G2 | 4 | F44 | | | NSD | | | | | | | |
| G2 | 5 | G43 | | | NSD | | | | | | | |
| G2 | 6 | G51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S6
Client Sample No: CL99

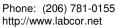
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G51 | | | NSD | | | | | | | |
| G2 | 4 | E34 | | | NSD | | | | | | | |
| G2 | 5 | F33 | | | NSD | | | | | | | |
| G2 | 6 | F41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S7
Client Sample No: CL100

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|-------------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G51 | | | NSD | | | | | | | |
| G2 | 4 | E44 | | | NSD | | | | | | | |
| G2 | 5 | F43 | | | NSD | | | | | | | |
| G2 | 6 | F51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S8
Client Sample No: CL101

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F42 | | | NSD | | | | | | | |
| G1 | 2 | G41 | | | NSD | | | | | | | |
| G1 | 3 | G33 | | | NSD | | | | | | | |
| G2 | 4 | F34 | | | NSD | | | | | | | |
| G2 | 5 | G33 | | | NSD | | | | | | | |
| G2 | 6 | G41 | | | NSD | | | | | | | |





Job Number: 220404 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220404R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/19/2022

Lab/Cor Sample No: S9 Client Sample No: CL102

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | NSD | | | | | | | |
| G1 | 2 | G43 | | NSD | | | | | | | |
| G1 | 3 | G51 | | NSD | | | | | | | |
| G2 | 4 | C44 | | NSD | | | | | | | |
| G2 | 5 | E43 | | NSD | | | | | | | |
| G2 | 6 | E51 | | NSD | | | | | | | |

Lab/Cor Sample No: S10 Client Sample No: CL103

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-----|----------|------------|--------|-------|--------|-----------|------------|---------|----------------------|
| G1 | 1 | B34 | | | NSD | | | | | | | |
| G1 | 2 | C33 | | | NSD | | | | | | | |
| G1 | 3 | C41 | | | NSD | | | | | | | |
| G2 | 4 | E34 | | | NSD | | | | | | | |
| G2 | 5 | F33 | | | NSD | | | | | | | |
| G2 | 6 | F41 | ADQ | 1 | Matrix 1-0 | 2.23 | 1.6 | 1.4 | Tremolite | Mg, Si, Ca | a | AHERA, AHERA_0.5-5.0 |

 ItemType
 ItemNum
 Confirmed
 Comment

 Brightfield
 J68115BF
 SB 4/20/2022
 0.53nm ROW SPACING

 Diffraction
 J68115DF
 SB 4/20/2022
 0.53nm ROW SPACING

 Spectra
 J68115SP
 SB 4/20/2022
 4/20/2022

Lab/Cor Sample No: S11 Client Sample No: CL91

| Gr | No. | Loc. | ID F | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|------|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C32 | | | NSD | | | | | | | |
| G1 | 2 | E31 | | | NSD | | | | | | | |
| G1 | 3 | E23 | | | NSD | | | | | | | |
| G2 | 4 | F44 | | | NSD | | | | | | | |
| G2 | 5 | G43 | | | NSD | | | | | | | |
| G2 | 6 | G51 | | | NSD | | | | | | | |
| G1 | 7 | F41 | | | NSD | | | | | | | |
| G1 | 8 | G42 | | | NSD | | | | | | | |
| G2 | 9 | E32 | | | NSD | | | | | | | |
| G2 | 10 | F41 | | | NSD | | | | | | | |





Job Number: 220404 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220404R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 4/19/2022

Lab/Cor Sample No: S12 Client Sample No: CL92

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F42 | | | NSD | | | | | | | |
| G1 | 2 | G41 | | | NSD | | | | | | | |
| G1 | 3 | G33 | | | NSD | | | | | | | |
| G2 | 4 | E44 | | | NSD | | | | | | | |
| G2 | 5 | F43 | | | NSD | | | | | | | |
| G2 | 6 | F51 | | | NSD | | | | | | | |
| G1 | 7 | E32 | | | NSD | | | | | | | |
| G1 | 8 | F31 | | | NSD | | | | | | | |
| G2 | 9 | E32 | | | NSD | | | | | | | |
| G2 | 10 | F31 | | | NSD | | | | | | | |

Lab/Cor Sample No: S13
Client Sample No: CL93

| Gr | No. | Loc. | ID | Prim T | ot Cla | ss Length | Width | Aspect | Analyte | Eleme | nts Coi | mment | Count Cat | egories |
|-------|--------|-------|---------|-----------|--------|---------------|-------|-------------|----------|-------|----------|-------|---------------|---------|
| G1 | 1 | E44 | | | NS | D | | | | | | | | |
| G1 | 2 | F43 | | | NS | D | | | | | | | | |
| G1 | 3 | F51 | | | NS | D | | | | | | | | |
| G1 | 4 | C34 | | | NS | D | | | | | | | | |
| G1 | 5 | E33 | | | NS | D | | | | | | | | |
| G2 | 6 | F42 | | | NS | D | | | | | | | | |
| G2 | 7 | G41 | | | NS | D | | | | | | | | |
| G2 | 8 | G33 | | | NS | D | | | | | | | | |
| G2 | 9 | E32 | | | NS | D | | | | | | | | |
| G2 | 10 | F31 | | | NS | D | | | | | | | | |
| Count | Catego | ries | | | | | | | | | | | | |
| AHER | Α | AHERA | A TOTAL | >=0.5, 5: | | AHERA_0.5-5.0 | AHERA | >=0.5 to 5. | 0μm, 5:1 | Α | HERA_5.0 | AHERA | .>=5.0μm, 5:1 | |

Reviewed by:

Shauna Bjornsor

Analyst



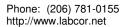
PBS Engineering and Environmental Inc. 234 EQUER STREET, SUITE 200 SEATTLE, WAS 98102 206.233.930

pbsusa.com

LABORATORY DATA SHEET

| Project Name: Pierce Col | lege Oly | mpic Sout | Project Name: Pierce College Olympic South Abatement and Repairs | | | WEATH | WEATHER/TEMP: | | Comme | nts: 24H | RTATE | Comments: 24HR TAT Email results to | प्र रहे |
|--------------------------|--------------|--------------|--|--------------|-----------|-------------------------------|---------------|------------|----------------|----------|------------------------|-------------------------------------|------------|
| Project No.: 40535.488 | | | I.H.: Peter Stensland | | | 50s Rainy | Ą | | Gregg.N | /liddaug | ih@pbsus | Gregg.Middaugh@pbsusa.com and | ā. |
| Location: Lakewood, WA | | | SAMPLE MEDIA/ANALYTICAL METHOD: |)D: | | <u></u> | | | Claire.Ts | sai@pbs | Claire.Tsai@pbsusa.com | | |
| Contractor: Dickson | | | AHERA | | | • | | | | | | | |
| Client: DES | | | | | | | | | | | | | |
| RELINQUISHED BY (SIGN.): | ï. | DATE/TIN | DATE/TIME: 4/18/2022 | ANALYZED BY: | вү: | | | DATE/TIME: | ME | | TWA: | | |
| DECEMED BY (SICNI) | 1 | | | | | | | | | | | | |
| VECELAED BY (STRINK): | 200 | VAIE/TIME: | ME:/19/22 8800 | ANALYZED BY: | BY: | | | DATE/TIME: | ME | | | | |
| CODES: P PERSONAL | AREA AREA | i | | П | PRE-ABATE | EMENT | | GBA | GLOVE BAG AREA | AG ARE | | | |
| | DE AREA | | A AMBIENT AIK | TEM (| CLEARANCE | EXCURSION CLEARANCE SAMPLE | 7 1 | | HEPA | | | | |
| DATE SAMPLE | 00E | PUMP PUMP | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | S | B |
| Z | | | ACTIVITY / PERSON | AVG | <u>2</u> | Q T | IM. | PRE | | AVG | 5 | 5 6 | 3 6 |
| 4/18/2022 CL-91 | 6 | NA NA | Lab Blank | | | | | | | | N. 188, (P.). | į | |
| CL-92 | В | ¥ | Field Blank | | | | | | | | | | |
| CL-93 | 8 | ¥ | Field Blank | | | | | | | | | | |
| CL-94 | TEM | HV18-1 | Level 3 NW IWA | | 9:12 | 11:22 | 130 | 10 | 10 — | 10 | 1300 | | |
| CL-95 | Ĭ | 8292 | Level 3 NE IWA | | 9:12 | 11:22 | 130 | ő | 5 | <u> </u> | 1300 | | |
| C1 07 | 1 3 | 0707 | Level 3 Central IWA | | 9:12 | 11:22 | 130 | 10 | 10 | 6 | 1300 | | |
| CL-98 | TEN Y | 4173 | Level 3 SE IVVA | | 9:12 | 11:22 | 130 | 10 | 10 | 10 | 1300 | | |
| CI_99 | _ | HV18_28 | Level 3 35 INAV | | 9:12 | 11:22 | 130 | 10 | 10 | 10 | 1300 | | |
| C1-100 | 4 | 10 00 | Level 2 to OWA | | 9:15 | 11:25 | 130 | 5 | 0 | 10 | 1300 | | |
| CL-100 | 1 5 | - L | Level 3 N OWA | | 9:15 | 11:25 | 130 | 10 | 70 | 9 | 30 | | |
| CT-101 | 1 5 | HV19-9 | Level 3 E OWA | | 9:15 | 11:25 | 130 | ō | 5 | 5 | 1300 | | |
| CL-102 | | 79/06/ | Level 1 Exterior Stairwell Landing OWA | | 9:17 | 11:27 | 130 | 70 | 70 | 0 | 1300 | | |
| CI-103 | ΕX | /052 | West Elevation N Scaffolding Level 2 OWA | | 9:19 | 11:29 | 130 | ō | 5 | 5 | 1300 | | |
| | | | | | | | | | | _ | | | |
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AHERA Final Report

Report Number: 220468R01 Job Number: 220468 **Report Date:** 5/5/2022

Client: PBS Engineering + Environmental

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project Num: 40535.488

PO Number: Sub Project:

PASSES AHERA Initial Screening Test with <70 s/mm2. PASSES AHERA Blank Contamination Test with <70 s/mm2. PASSES AHERA Z-Test, Z-score <1.65.

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes Date Sampled: | Date Received: |
|--------------|----------------------|----------|------------------------------|----------------|
| 220468 - S1 | CL-104 | AHERA | 5/4/2022 | |
| 220468 - S2 | CL-105 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S3 | CL-106 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S4 | CL-107 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S5 | CL-108 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S6 | CL-109 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S7 | CL-110 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S8 | CL-111 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S9 | CL-112 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S10 | CL-113 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S11 | CL-114 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S12 | CL-115 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S13 | CL-116 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S14 | CL-117 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S15 | CL-118 | AHERA | 5/4/2022 | 5/5/2022 |
| 220468 - S16 | CL-119 | AHERA | 5/4/2022 | 5/5/2022 |



AHERA Final Report

Job Number: 220468 Report Number: 220468R01 **Report Date:** 5/5/2022 Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

40-CFR Part 763

AHERA - Method Preparation and analysis of the above samples was conducted in accordance with the AHERA method (40-CFR Part 763 Subpart E, Appendix A) for the identification of asbestos. Briefly, the samples were collapsed with a solution of N,N-App. A, Subpart E dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at approximate screen magnification of between 15,000x-20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification. Grid preparations are evaluated by the analyst before commencing analysis. Proper preparations have >75% replicate coverage, have a 10% etch rate, have acceptable particulate loading and show no evidence of preparation remnants (chemical or material).

> Passing criteria for the initial clearance as defined by the method is based on the Filter Density (str/mm2). The Total Filter Density is divided by the number of inside work area samples; if the average Filter Density is >70 str/mm2 the sample set fails initial AHERA clearance criteria.

Disclaimer This test report shall not be reproduced, except in full, without written approval of the laboratory. The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in either structures/cm3 or structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Reviewed by:

Kate March

Quality Control Officer



Job Number: 220468

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

AHERA Rapid Summary - Final Report

Report Number: 220468R01 Date Received: 5/5/2022

Phone: (206) 781-0155 http://www.labcor.net

| Lab/Cor Sample No. | Client Sample No. | Structure Type | Filter Density (s/mm2) | Concen- tration* (struct/cc) | 95% Confidence Interval (struct/cc) | Struct Count¹ Prim/Total | Analytical Sens. (sruct/cc) : |
|-----------------------|-------------------|------------------------|------------------------------|------------------------------------|---|--------------------------------|-------------------------------------|
| S | CL-104 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S2 | CL-105 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S3 | CL-106 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S4 | CL-107 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| SS | CL-108 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| 98 | CL-109 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S7 | CL-110 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| 88 | CL-111 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| 68 | CL-112 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S10 | CL-113 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S11 | CL-114 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S12 | CL-115 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S13 | CL-116 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | 0.00484 |
| S14 | CL-117 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | ΑΝ |
| S15 | CL-118 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |
| S16 | CL-119 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Rapid Summary - Final Report

Job Number: 220468 SEA

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

Struct Count¹ Prim/Total 95% Confidence (struct/cc) Interval Concentration* (struct/cc) Filter Density (s/mm2) Structure Type Client Sample No. Sample No. Lab/Cor

Analytical Sens. (sruct/cc) :

Report Number: 220468R01 Date Received: 5/5/2022

Phone: (206) 781-0155 http://www.labcor.net

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^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Summary Data - Final Report

Job Number: 220468 SEA

Client: PBS Engineering + Environmental Report Number: 220468R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Lab/Cor Sample No.: S1 Volume (L): 1250

Client Sample No.: CL-104 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification

KM 5/5/2022 JEOL-Sr 1200 20000 Grid Opening Analyzed: 6

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Volume (L): 1250

Client Sample No.: CL-105

Analyst(s) Analysis Date Microscope Magnification

Analyst Grid Openings Analyzed: 6

Average Grid Opening Area: 0.0106

KM 5/5/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S3 Volume (L): 1250

Client Sample No.: CL-106

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification

Grid Openings Analyzed: 6

Analyst(s) Analysis Date Microscope Magnification

KM 5/5/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data -Final Report

Job Number: 220468

Client: PBS Engineering + Environmental Report Number: 220468R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Volume (L): 1250 Lab/Cor Sample No.: S4

Client Sample No.: CL-107 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6 **Analysis Date** Magnification Analyst(s) Microscope Average Grid Opening Area: 0.0106 ΚM 5/5/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struct Cour Prim/T | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|--------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S5 Volume (L): 1250

Client Sample No.: CL-108 Lab Filter Area (mm2): 385 **Grid Openings Analyzed:** 6 **Analysis Date** Magnification Analyst(s) Microscope Average Grid Opening Area: 0.0106 SB 5/5/2022 JEOL-Sr 1200 20000

Area Analyzed (mm2): 0.0636 Analytical Sens. (struc/cc): 0.0048428

Filter Concen-95% Confidence Structure Structure **Density** tration* Count¹ Type Interval (s/mm2) (struc/cc) (struc/cc) Prim/Total AHERA >=0.5 to 5.0µm, 5:1 < 0.005 0 - 0.018 - Poisson 0 0 0 AHERA >=5.0μm, 5:1 < 0.005 0 - 0.018 - Poisson

< 0.005

Volume (L): 1250 Lab/Cor Sample No.: S6

0

Client Sample No.: CL-109 Lab Filter Area (mm2): 385 Grid Openings Analyzed: 6 Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.0106 SB 5/5/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

0

AHERA TOTAL >=0.5, 5:1 0 - 0.018 - Poisson ¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220468 SEA

Client: PBS Engineering + Environmental Report Number: 220468R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Lab/Cor Sample No.: S7 Volume (L): 1250

Client Sample No.: CL-110 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 5/5/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 6

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struct Cour Prim/T | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|--------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S8 Volume (L): 1250

Client Sample No.: CL-111

Analyst(s)
SB
5/5/2022
Analysis Date
SB
5/5/2022
Analysis Date
SB
5/5/2022
Analysis Date
SB
5/5/2022
Analysis Date
JEOL-Sr 1200
20000

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0636
Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S9

Volume (L): 1250

Client Sample No.: CL-112

Analyst(s)
SB

5/5/2022

Analysis Date
SB

Lab Filter Area (mm2): 385

Microscope
Magnification
20000

Average Grid Opening Area: 0.0106

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data -Final Report

Job Number: 220468

Client: PBS Engineering + Environmental Report Number: 220468R01 Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Volume (L): 1250 Lab/Cor Sample No.: S10

Client Sample No.: CL-113 Lab Filter Area (mm2): 385

Grid Openings Analyzed: 6 **Analysis Date** Magnification Analyst(s) Microscope Average Grid Opening Area: 0.0106 SB 5/5/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struc Cou Prim/ | ınt¹ |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------|------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S11 Volume (L): 1250

Client Sample No.: CL-114 Lab Filter Area (mm2): 385 **Grid Openings Analyzed**: 6

Analysis Date Magnification Analyst(s) Microscope Average Grid Opening Area: 0.0106 SB 5/5/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Volume (L): 1250 Lab/Cor Sample No.: S12

Client Sample No.: CL-115 Lab Filter Area (mm2): 385 **Grid Openings Analyzed:** 6 Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.0106 SB 5/5/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0636

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total | | |
|---------------------------|------------------------------|-----------------------------------|--|---|--|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220468 SEA

Client: PBS Engineering + Environmental Report Number: 220468R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Lab/Cor Sample No.: S13 Volume (L): 1250

Client Sample No.: CL-116 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 5/5/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 6
Average Grid Opening Area: 0.0106
Area Analyzed (mm2): 0.0636

Analytical Sens. (struc/cc): 0.0048428

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struct Cour Prim/T | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|--------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.005 | 0 - 0.018 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S14 Volume (L): 0

Client Sample No.: CL-117

Lab Filter Area (mm2): 385

Analysis Data Microscope Magnification

Analysis Data Microscope Magnification

Analyst(s) Analysis Date SB 5/5/2022 Magnification JEOL-Sr 1200 20000 Magnification Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.106

Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Cou | Structure Count ¹ Prim/Total | | |
|---------------------------|------------------------------|-----------------------------------|--|-----|---|--|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | | | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | | | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | | | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S15

Client Sample No.: CL-118

Volume (L): 0

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification SB 5/5/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.106

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structur Count ¹ Prim/Tot | †¹ |
|---------------------------|------------------------------|-----------------------------------|--|--|----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220468 SEA

Client: PBS Engineering + Environmental Report Number: 220468R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Lab/Cor Sample No.: S16 Volume (L): 0

Client Sample No.: CL-119 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 5/5/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 10
Average Grid Opening Area: 0.0106
Area Analyzed (mm2): 0.106

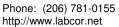
Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struc Cou Prim/ | ınt¹ |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------|------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

X Kate March
Quality Control Officer





Job Number: 220468 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220468R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: CL-104

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E34 | | | NSD | | | | | | | |
| G1 | 2 | F33 | | | NSD | | | | | | | |
| G1 | 3 | F42 | | | NSD | | | | | | | |
| G1 | 4 | G41 | | | NSD | | | | | | | |
| G2 | 5 | F34 | | | NSD | | | | | | | |
| G2 | 6 | G41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: CL-105

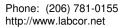
| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|-------------------------|
| G1 | 1 | C34 | | NSD | | | | | | | |
| G1 | 2 | E33 | | NSD | | | | | | | |
| G1 | 3 | E42 | | NSD | | | | | | | |
| G1 | 4 | F41 | | NSD | | | | | | | |
| G2 | 5 | E33 | | NSD | | | | | | | |
| G2 | 6 | E42 | | NSD | | | | | | | |

Lab/Cor Sample No: S3
Client Sample No: CL-106

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Asp | ect Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-----------|-------------|----------|---------|------------------|
| G1 | 1 | E44 | | NSD | | | | | | |
| G1 | 2 | F43 | | NSD | | | | | | |
| G1 | 3 | F52 | | NSD | | | | | | |
| G1 | 4 | G51 | | NSD | | | | | | |
| G2 | 5 | E34 | | NSD | | | | | | |
| G2 | 6 | F41 | | NSD | | | | | | |

Lab/Cor Sample No: S4
Client Sample No: CL-107

| Gr | No. | Loc. | ID Prim T | ot Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-----------|----------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | NSD | | | | | | | |
| G1 | 2 | F43 | | NSD | | | | | | | |
| G1 | 3 | F52 | | NSD | | | | | | | |
| G1 | 4 | G51 | | NSD | | | | | | | |
| G2 | 5 | E34 | | NSD | | | | | | | |
| G2 | 6 | F41 | | NSD | | | | | | | |





Job Number: 220468 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + EnvironmentalReport Number: 220468R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 5/5/2022

Lab/Cor Sample No: S5 Client Sample No: CL-108

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E34 | | NSD | | | | | | | |
| G1 | 2 | F33 | | NSD | | | | | | | |
| G1 | 3 | F41 | | NSD | | | | | | | |
| G2 | 4 | F52 | | NSD | | | | | | | |
| G2 | 5 | G51 | | NSD | | | | | | | |
| G2 | 6 | G43 | | NSD | | | | | | | |

Lab/Cor Sample No: S6
Client Sample No: CL-109

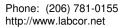
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C44 | | | NSD | | | | | | | |
| G1 | 2 | E43 | | | NSD | | | | | | | |
| G1 | 3 | E51 | | | NSD | | | | | | | |
| G2 | 4 | F34 | | | NSD | | | | | | | |
| G2 | 5 | F42 | | | NSD | | | | | | | |
| G2 | 6 | G41 | | | NSD | | | | | | | |

Lab/Cor Sample No: S7
Client Sample No: CL-110

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F34 | | NSD | | | | | | | |
| G1 | 2 | G33 | | NSD | | | | | | | |
| G1 | 3 | G41 | | NSD | | | | | | | |
| G2 | 4 | G52 | | NSD | | | | | | | |
| G2 | 5 | H51 | | NSD | | | | | | | |
| G2 | 6 | H43 | | NSD | | | | | | | |

Lab/Cor Sample No: S8
Client Sample No: CL-111

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | | NSD | | | | | | | |
| G1 | 2 | F43 | | | NSD | | | | | | | |
| G1 | 3 | F51 | | | NSD | | | | | | | |
| G2 | 4 | F24 | | | NSD | | | | | | | |
| G2 | 5 | G23 | | | NSD | | | | | | | |
| G2 | 6 | G31 | | | NSD | | | | | | | |





Job Number: 220468 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220468R01

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/5/2022

Lab/Cor Sample No: S9 Client Sample No: CL-112

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | NSD | | | | | | | |
| G1 | 2 | F41 | | NSD | | | | | | | |
| G1 | 3 | F33 | | NSD | | | | | | | |
| G2 | 4 | F42 | | NSD | | | | | | | |
| G2 | 5 | G41 | | NSD | | | | | | | |
| G2 | 6 | G33 | | NSD | | | | | | | |

Lab/Cor Sample No: S10 Client Sample No: CL-113

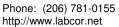
| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|-------------------------|
| G1 | 1 | E52 | | NSD | | | | | | | |
| G1 | 2 | F51 | | NSD | | | | | | | |
| G1 | 3 | F43 | | NSD | | | | | | | |
| G2 | 4 | E42 | | NSD | | | | | | | |
| G2 | 5 | F41 | | NSD | | | | | | | |
| G2 | 6 | F33 | | NSD | | | | | | | |

Lab/Cor Sample No: S11
Client Sample No: CL-114

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | F41 | | | NSD | | | | | | | |
| G1 | 3 | F33 | | | NSD | | | | | | | |
| G2 | 4 | E52 | | | NSD | | | | | | | |
| G2 | 5 | F51 | | | NSD | | | | | | | |
| G2 | 6 | F43 | | | NSD | | | | | | | |

Lab/Cor Sample No: S12 Client Sample No: CL-115

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | F41 | | | NSD | | | | | | | |
| G1 | 3 | F33 | | | NSD | | | | | | | |
| G2 | 4 | F44 | | | NSD | | | | | | | |
| G2 | 5 | G43 | | | NSD | | | | | | | |
| G2 | 6 | G51 | | | NSD | | | | | | | |





Job Number: 220468 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + EnvironmentalReport Number: 220468R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 5/5/2022

Lab/Cor Sample No: S13 Client Sample No: CL-116

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F34 | | NSD | | | | | | | |
| G1 | 2 | G33 | | NSD | | | | | | | |
| G1 | 3 | G41 | | NSD | | | | | | | |
| G2 | 4 | C42 | | NSD | | | | | | | |
| G2 | 5 | E41 | | NSD | | | | | | | |
| G2 | 6 | E33 | | NSD | | | | | | | |

Lab/Cor Sample No: S14 Client Sample No: CL-117

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C34 | | NSD | | | | | | | |
| G1 | 2 | E33 | | NSD | | | | | | | |
| G1 | 3 | E41 | | NSD | | | | | | | |
| G1 | 4 | F42 | | NSD | | | | | | | |
| G1 | 5 | G41 | | NSD | | | | | | | |
| G2 | 6 | E34 | | NSD | | | | | | | |
| G2 | 7 | F33 | | NSD | | | | | | | |
| G2 | 8 | F41 | | NSD | | | | | | | |
| G2 | 9 | E24 | | NSD | | | | | | | |
| G2 | 10 | F23 | | NSD | | | | | | | |

Lab/Cor Sample No: S15 Client Sample No: CL-118

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F34 | | | NSD | | | | | | | |
| G1 | 2 | G33 | | | NSD | | | | | | | |
| G1 | 3 | G41 | | | NSD | | | | | | | |
| G1 | 4 | H44 | | | NSD | | | | | | | |
| G1 | 5 | K43 | | | NSD | | | | | | | |
| G2 | 6 | F44 | | | NSD | | | | | | | |
| G2 | 7 | G43 | | | NSD | | | | | | | |
| G2 | 8 | G51 | | | NSD | | | | | | | _ |
| G2 | 9 | C42 | | | NSD | | | | | | | |
| G2 | 10 | E41 | | | NSD | | | | | | | |



AHERA Raw Data - Final Report

Job Number: 220468 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + EnvironmentalReport Number: 220468R01Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 5/5/2022

Lab/Cor Sample No: S16 Client Sample No: CL-119

| Gr | No. | Loc. | ID | Prim Tot | Clas | s Length | Width | Aspect | Analyte | Element | s Com | iment Co | unt Categories |
|------|----------|-------|-------|------------|------|---------------|-------|-------------|----------|---------|---------|---------------|----------------|
| G1 | 1 | G42 | | | NSI |) | | | | | | | |
| G1 | 2 | H41 | | | NSI |) | | | | | | | |
| G1 | 3 | H33 | | | NSI |) | | | | | | | |
| G1 | 4 | C32 | | | NSI |) | | | | | | | |
| G1 | 5 | E31 | | | NSI |) | | | | | | | |
| G2 | 6 | C34 | | | NSI |) | | | | | | | |
| G2 | 7 | E33 | | | NSI |) | | | | | | | |
| G2 | 8 | E44 | | | NSI |) | | | | | | | |
| G2 | 9 | F44 | | | NSI |) | | | | | | | |
| G2 | 10 | G43 | | | NSI |) | | | | | | | |
| Coun | t Catego | ries | | | | | | | | | | | |
| AHER | RA | AHERA | TOTAL | >=0.5, 5:1 | | AHERA_0.5-5.0 | AHERA | >=0.5 to 5. | 0μm, 5:1 | AH | ERA_5.0 | AHERA >=5.0μn | ı, 5:1 |

Reviewed by:

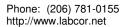
x KlgPLL Kate March

Quality Control Officer



LABORATORY DATA SHEET

| | | | 118. | | | | | | | | | | |
|---------------------|--------------------------|--------------|------------|--|--------------|-------------------------|--------------|------------------|------------|----------------|----------|------------------------|---------------------------------|
| roject Nan | ne: Pierce Col | lege Oly | mpic South | Project Name: Pierce College Olympic South Abatement and Repairs | | | WEATH | WEATHER/TEMP: | | Comme | nts: 24H | R IAI En | Comments: 24HR TAT Email result |
| roject No. | Project No.: 40535.488 | | | I.H.: Peter Stensland | | | ous Kainy | 4 | | Claire.Te | sai@pbs | Claire.Tsai@pbsusa.com | Claire.Tsai@pbsusa.com |
| ocation: La | Location: Lakewood, WA | | | SAMPLE MEDIA/ANALYTICAL METHOD: | | | | | | | | | |
| Contractor: Dickson | Dickson | | | AHERRA | | | | | | | | | |
| Client: DES | 2 | | | | | | | | | | | | |
| RELINOUS | RELINQUISHED BY (SIGN.): |); | DATE/TIN | DATE/TIME: 5/4/2022 | ANALYZED BY: | BY: | | | DATE/TIME: | IME: | | TWA: | |
| RECEIVED | RECEIVED BY (SIGN.): | | DATE/TIN | DATE/TIME: 4/22 5 48pm | ANALYZED BY: | BY: | | | DATE/TIME: | IME: | | | |
| m | 7 | | | | - | | | | 3 | | A | | |
| CODES: | P PERSONAL | PERSONAL | | C CLEARANCE | PRE | PRE-ABATEMENT EXCURSION | TEMENT | | GBA | GLOVE BAG AREA | AG ARE | A | |
| | 1 | OUTSIDE AREA | | | TEM | CLEARANCE SAMPLE | CE SAMPI | E | | | | | |
| DATE | SAMPLE | CODE | DIIMD | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB |
| CALE | NUMBER | 2000 | . 0 . | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD |
| 5/4/2022 | CL-104 | TEM | 4173 | Level 2 E of elevator shaft | | 8:28 | 10:33 | 125 | 10 | 10 | 10 | 1250 | |
| | CL-105 | TEM | HV18-38 | Northwest stair landing between 1 & 2 | | 82.8 | 10:33 | 125 | 200 | 3 6 | 3 5 | 1250 | |
| | CL-106 | IEM | 0707 | Level 1 World East | | 8.20 | 10:34 | 125 | 10 | 10 | 10 | 1250 | |
| | CI-108 | TFM | 8297 | Level 1 Mechanical room | | 8:29 | 10:34 | 125 | 10 | 10 | 10 | 1250 | |
| | CL-109 | TEM | 13 | Level 1 South West | | 8:30 | 10:35 | 125 | 10 | 10 | 10 | 1250 | |
| | CL-110 | TEM | HV18-1 | Level 1 S of Mech. Room | | 8:30 | 10:35 | 125 | 10 | 10 | 10 | 1250 | |
| | CL-111 | TEM | HV19-9 | Level 1 South East | | 8:31 | 10:36 | 125 | 10 | 10 | 000 | 1250 | |
| | CL-112 | TEM | 700010 | Loadout OWA | | 8:38 | 10:43 | 125 | 10 | 10 | 10 | 1250 | |
| | CL-114 | TEM | 1698 | Underneahth Olympic N to S skybridge OWA | | 8:41 | 10:46 | 125 | 10 | 10 | 10 | 1250 | |
| | CL-115 | TEM | 8504 | Stair Tower Base OWA | | 8:43 | 10:48 | 125 | 10 | 10 | 10 | 1250 | |
| | CL116 | TEM | 10W45 | Lvl 2 S of containment OWA | 1 | 8:46 | 10:51 | 125 | 10 | 10 | 10 | 1250 | |
| | CL-117 | 8 | NA | Lab Blank | | | | | | | | | |
| | CL-118 | В | NA | Field Blank | | | - | | | | | | |
| | CL-119 | 8 | NA | Field Blank | | | | | | | | | |
| | | | | | | | | Ed NV | | | | | |
| | | | | | | | Reviewed by. | ed by | | | | | |
| | | | | | | | Result | Results Released | | T T | | | |
| | | | | | | | Fax | Verbals | USPS | Elliqu | | | |
| | | | | | | | Invoice | nvoice Released | Email | | | - | |
| | | | | | | | 95 | 1 | | | | | |





AHERA Final Report

Job Number: 220520 Report Number: 220520R02

Client: PBS Engineering + Environmental Report Date: 5/20/2022

Address: 214 E Galer Street Seattle, WA 98102

Project Name: Pierce College Olympic South Abatement and Repairs

Project Num: 40535.488

PO Number: Sub Project:

Report Note: 220520R01 was a preliminary report requested by Claire.

PASSES AHERA Initial Screening Test with <70 s/mm2. PASSES AHERA Blank Contamination Test with <70 s/mm2. PASSES AHERA Z-Test, Z-score <1.65.

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Num. | Client Sample Number | Analysis | Analysis Notes | Date Sampled: | Date Received: |
|--------------|----------------------|----------|---------------------------|---------------|----------------|
| 220520 - S1 | CL-120 | AHERA | Many S, Ca Fibers Present | 5/19/2022 | 5/19/2022 |
| 220520 - S2 | CL-121 | AHERA | Some S, Ca Fibers Present | 5/19/2022 | 5/19/2022 |
| 220520 - S3 | CL-122 | AHERA | Few S, Ca Fibers present | 5/19/2022 | 5/19/2022 |
| 220520 - S4 | CL-123 | AHERA | Few S, Ca Fibers present | 5/19/2022 | 5/19/2022 |
| 220520 - S5 | CL-124 | AHERA | | 5/19/2022 | 5/19/2022 |
| 220520 - S6 | CL-125 | AHERA | | 5/19/2022 | 5/19/2022 |
| 220520 - S7 | CL-126 | AHERA | | 5/19/2022 | 5/19/2022 |
| 220520 - S8 | CL-127 | AHERA | | 5/19/2022 | 5/19/2022 |
| 220520 - S9 | CL-128 | AHERA | | 5/19/2022 | 5/19/2022 |
| 220520 - S10 | CL-129 | AHERA | | 5/19/2022 | 5/19/2022 |
| 220520 - S11 | CL-130 | AHERA | | 5/19/2022 | 5/19/2022 |
| 220520 - S12 | CL-131 | AHERA | | 5/19/2022 | 5/19/2022 |
| 220520 - S13 | CL-132 | AHERA | | 5/19/2022 | 5/19/2022 |



AHERA Final Report

Job Number: 220520 Report Number: 220520R02 Report Date: 5/20/2022 Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

40-CFR Part 763

AHERA - Method Preparation and analysis of the above samples was conducted in accordance with the AHERA method (40-CFR Part 763 Subpart E, Appendix A) for the identification of asbestos. Briefly, the samples were collapsed with a solution of N,N-App. A, Subpart E dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethlyformamide / Acetone baths until cleared of filter debris.

> Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at approximate screen magnification of between 15,000x-20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification. Grid preparations are evaluated by the analyst before commencing analysis. Proper preparations have >75% replicate coverage, have a 10% etch rate, have acceptable particulate loading and show no evidence of preparation remnants (chemical or material).

> Passing criteria for the initial clearance as defined by the method is based on the Filter Density (str/mm2). The Total Filter Density is divided by the number of inside work area samples; if the average Filter Density is >70 str/mm2 the sample set fails initial AHERA clearance criteria.

Disclaimer This test report shall not be reproduced, except in full, without written approval of the laboratory. The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in either structures/cm3 or structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Reviewed by:

Kate March

Quality Control Officer



AHERA Rapid Summary - Final Report

Job Number: 220520 SEA

Client: PBS Engineering + Environmental

roject Name: Pierce College Olympic South Abatement and Be

Report Number: 220520R02 Date Received: 5/19/2022

Phone: (206) 781-0155 http://www.labcor.net

| Client Sample No. | Structure Type | Filter Density (s/mm2) | Concen- tration* (struct/cc) | 95% Confidence Interval (struct/cc) | Struct Count¹ Prim/Total | Analytical Sens. (sruct/cc) : |
|-------------------|--|--|--|--|--|---|
| CL-120 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00432 |
| CL-121 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00432 |
| CL-122 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00432 |
| CL-123 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00432 |
| CL-124 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00432 |
| CL-125 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00432 |
| CL-126 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00432 |
| CL-127 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00432 |
| CL-128 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00432 |
| CL-129 | AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | 0.00432 |
| CL-130 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |
| CL-131 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |
| CL-132 | AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | NA |
| | CL-121 CL-123 CL-124 CL-126 CL-127 CL-128 CL-129 CL-131 CL-131 | AHERA TOTAL >=0.5, AHERA TOTAL >=0.5, AHERA TOTAL >=0.5, AHERA TOTAL >=0.5, AHERA TOTAL >=0.5, AHERA TOTAL >=0.5, AHERA TOTAL >=0.5, AHERA TOTAL >=0.5, AHERA TOTAL >=0.5, AHERA TOTAL >=0.5, AHERA TOTAL >=0.5, AHERA TOTAL >=0.5, AHERA TOTAL >=0.5, | AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 AHERA TOTAL >=0.5, 5:1 | AHERA TOTAL >=0.5, 5:1 0 AHERA TOTAL >=0.5, 5:1 0 AHERA TOTAL >=0.5, 5:1 0 AHERA TOTAL >=0.5, 5:1 0 AHERA TOTAL >=0.5, 5:1 0 AHERA TOTAL >=0.5, 5:1 0 AHERA TOTAL >=0.5, 5:1 0 AHERA TOTAL >=0.5, 5:1 0 AHERA TOTAL >=0.5, 5:1 0 AHERA TOTAL >=0.5, 5:1 0 AHERA TOTAL >=0.5, 5:1 0 AHERA TOTAL >=0.5, 5:1 0 | AHERA TOTAL >=0.5, 5:1 0 < 0.004 AHERA TOTAL >=0.5, 5:1 0 < 0.004 AHERA TOTAL >=0.5, 5:1 0 < 0.004 AHERA TOTAL >=0.5, 5:1 0 < 0.004 AHERA TOTAL >=0.5, 5:1 0 < 0.004 AHERA TOTAL >=0.5, 5:1 0 < 0.004 AHERA TOTAL >=0.5, 5:1 0 < 0.004 AHERA TOTAL >=0.5, 5:1 0 < 0.004 AHERA TOTAL >=0.5, 5:1 0 < 0.004 AHERA TOTAL >=0.5, 5:1 0 Not Applicable AHERA TOTAL >=0.5, 5:1 0 Not Applicable | AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson |

^{*} One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Rapid Summary - Final Report

Report Number: 220520R02 Date Received: 5/19/2022

Phone: (206) 781-0155 http://www.labcor.net

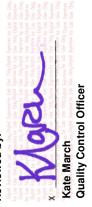
Job Number: 220520 SEA

Client: PBS Engineering + Environmental

Project Name: Pierce College Olympic South Abatement and Repairs

| Lab/Cor | Client Sample No. | Structure | Filter | Concen- | 95% Confidence | Struct | Analytical |
|------------|-------------------|-----------|---------|-------------|----------------|--------------------|-------------|
| Sample No. | | Type | Density | tration* | Interval | Count ₁ | Sens. |
| | | | (s/mm2) | (struct/cc) | (struct/cc) | Prim/Total | (sruct/cc): |

Reviewed by:



* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3



AHERA Summary Data - Final Report

Job Number: 220520 SEA

Client: PBS Engineering + Environmental Report Number: 220520R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/19/2022

Lab/Cor Sample No.: S1 Volume (L): 1200

Client Sample No.: CL-120

Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 5/20/2022 JEOL-Sr 1200 2000 Area Analyzed (mm2): 0.0742

Analytical Sens. (struc/cc): 0.0043239

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2 Volume (L): 1200

Client Sample No.: CL-121

Lab Filter Area (mm2): 385

Analysis Date Microscope Magnification

Grid Openings Analyzed: 7

Analyst(s) Analysis Date Microscope Magnification
SB 5/20/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0106
Analytical Sens. (struc/cc): 0.0043239

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------------------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S3 Volume (L): 1200

Client Sample No.: CL-122

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 7

Analyst(s) Analysis Date Microscope Magnification SB 5/20/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0742

Analytical Sens. (struc/cc): 0.0043239

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220520 SEA

Client: PBS Engineering + Environmental Report Number: 220520R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/19/2022

Lab/Cor Sample No.: S4 Volume (L): 1200

Client Sample No.: CL-123 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 5/20/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 7

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0742

Analytical Sens. (struc/cc): 0.0043239

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struct Cour Prim/T | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|--------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S5 Volume (L): 1200

Client Sample No.: CL-124

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 7

Analyst(s) Analysis Date Microscope Magnification
SB 5/20/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0742

Analytical Sens. (struc/cc): 0.0043239

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Tota |
|---------------------------|------------------------------|-----------------------------------|--|--|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S6

Volume (L): 1200

Client Sample No.: CL-125

Analyst(s)
SB

Analysis Date
SB

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 7

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0742

Analytical Sens. (struc/cc): 0.0043239

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220520 SEA

Client: PBS Engineering + Environmental Report Number: 220520R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/19/2022

Lab/Cor Sample No.: S7 Volume (L): 1200

Client Sample No.: CL-126 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 5/20/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 7

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0742

Analytical Sens. (struc/cc): 0.0043239

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structi Coun Prim/Te | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|----------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S8 Volume (L): 1200

Client Sample No.: CL-127

Lab Filter Area (mm2): 385

Analysis Data Microscope Magnification

Grid Openings Analyzed: 7

Analyst(s) Analysis Date Microscope Magnification
SB 5/20/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.0106
Analytical Sens. (struc/cc): 0.0043239

Filter Concen-95% Confidence Structure Structure Density tration* Count¹ Type Interval (s/mm2) (struc/cc) (struc/cc) Prim/Total AHERA >=0.5 to 5.0μm, 5:1 < 0.004 0 - 0.016 - Poisson 0 0 0 AHERA >=5.0μm, 5:1 < 0.004 0 - 0.016 - Poisson AHERA TOTAL >=0.5, 5:1 0 < 0.004 0 - 0.016 - Poisson 0

Lab/Cor Sample No.: S9

Volume (L): 1200

Client Sample No.: CL-128

Analyst(s)
SB

Analysis Date
SB

Lab Filter Area (mm2): 385

Grid Openings Analyzed: 7

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0742

Analytical Sens. (struc/cc): 0.0043239

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220520 SEA

Client: PBS Engineering + Environmental Report Number: 220520R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/19/2022

Lab/Cor Sample No.: S10 Volume (L): 1200

Client Sample No.: CL-129 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification
SB 5/20/2022 JEOL-Sr 1200 20000 Grid Openings Analyzed: 7

Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.0742

Analytical Sens. (struc/cc): 0.0043239

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structi Coun Prim/Te | nt¹ |
|---------------------------|------------------------------|-----------------------------------|--|----------------------------|-----|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | < 0.004 | 0 - 0.016 - Poisson | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S11 Volume (L): 0

Client Sample No.: CL-130

Lab Filter Area (mm2): 385

Analysis Peter Missesses Magnification

Grid Openings Analyzed: 10

Analyst(s) Analysis Date SB 5/20/2022 SEOL-Sr 1200 Magnification JEOL-Sr 1200 Average Grid Opening Area: 0.0106

Area Analyzed (mm2): 0.106

Analytical Sens. (struc/cc): NA

Filter Concen-95% Confidence Structure Structure Density tration* Interval Count¹ Type (s/mm2) (struc/cc) (struc/cc) Prim/Total AHERA >=0.5 to 5.0μm, 5:1 Not Applicable Not Applicable 0 0 AHERA >=5.0μm, 5:1 0 Not Applicable Not Applicable AHERA TOTAL >=0.5, 5:1 0 Not Applicable Not Applicable 0

Lab/Cor Sample No.: S12 Volume (L): 0
Client Sample No.: CL-131
Lab Filter Area (mm2): 385

Grid Openings Analyzed: 10 Analyst(s) **Analysis Date** Microscope Magnification Average Grid Opening Area: 0.0106 SB 5/20/2022 JEOL-Sr 1200 20000 Area Analyzed (mm2): 0.106 KM5/20/2022 Hitachi 7000FA 20000 Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Structure Count ¹ Prim/Total |
|---------------------------|------------------------------|-----------------------------------|--|---|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.



AHERA Summary Data - Final Report

Job Number: 220520 SEA

Client: PBS Engineering + Environmental Report Number: 220520R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/19/2022

Lab/Cor Sample No.: S13 Volume (L): 0

Client Sample No.: CL-132 Lab Filter Area (mm2): 385

Analyst(s) Analysis Date Microscope Magnification

KM 5/20/2022 Hitachi 7000FA 20000 Area Analyzed (mm2): 0.106

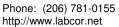
Analytical Sens. (struc/cc): NA

| Structure Type | Filter Density (s/mm2) | Concen- tration* (struc/cc) | 95% Confidence Interval (struc/cc) | Struc Cou Prim/ | unt¹ |
|---------------------------|------------------------------|-----------------------------------|--|-----------------------|------|
| AHERA >=0.5 to 5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA >=5.0μm, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |
| AHERA TOTAL >=0.5, 5:1 | 0 | Not Applicable | Not Applicable | 0 | |

¹ Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Reviewed by:

Kate March





Job Number: 220520 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + Environmental Report Number: 220520R02

Project Name: Pierce College Olympic South Abatement and Repairs Date Received: 5/19/2022

Project No.: 40535.488

Lab/Cor Sample No: S1 Client Sample No: CL-120

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | C42 | | | NSD | | | | | | | |
| G1 | 2 | E41 | | | NSD | | | | | | | |
| G1 | 3 | E34 | | | NSD | | | | | | | |
| G1 | 4 | F33 | | | NSD | | | | | | | |
| G2 | 5 | E44 | | | NSD | | | | | | | |
| G2 | 6 | F43 | | | NSD | | | | | | | |
| G2 | 7 | F51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S2 Client Sample No: CL-121

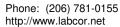
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E42 | | | NSD | | | | | | | |
| G1 | 2 | F41 | | | NSD | | | | | | | |
| G1 | 3 | F33 | | | NSD | | | | | | | |
| G1 | 4 | G31 | | | NSD | | | | | | | |
| G2 | 5 | F42 | | | NSD | | | | | | | |
| G2 | 6 | G41 | | | NSD | | | | | | | |
| G2 | 7 | G33 | | | NSD | | | | | | | |

Lab/Cor Sample No: S3
Client Sample No: CL-122

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|--------------|---------|----------|---------|------------------|
| G1 | 1 | E34 | | NSD | | | | | | |
| G1 | 2 | F33 | | NSD | | | | | | |
| G1 | 3 | F41 | | NSD | | | | | | |
| G1 | 4 | G41 | | NSD | | | | | | |
| G2 | 5 | C42 | | NSD | | | | | | |
| G2 | 6 | E41 | | NSD | | | | | | |
| G2 | 7 | E33 | | NSD | | | | | | |

Lab/Cor Sample No: S4 Client Sample No: CL-123

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F52 | | | NSD | | | | | | | |
| G1 | 2 | G51 | | | NSD | | | | | | | |
| G1 | 3 | G43 | | | NSD | | | | | | | |
| G1 | 4 | H41 | | | NSD | | | | | | | |
| G2 | 5 | F34 | | | NSD | | | | | | | |
| G2 | 6 | G33 | | | NSD | | | | | | | |
| G2 | 7 | G41 | | | NSD | | | | | | | |





Job Number: 220520 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + EnvironmentalReport Number: 220520R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 5/19/2022

Lab/Cor Sample No: S5 Client Sample No: CL-124

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F34 | | | NSD | | | | | | | |
| G1 | 2 | G33 | | | NSD | | | | | | | |
| G1 | 3 | G41 | | | NSD | | | | | | | |
| G1 | 4 | F43 | | | NSD | | | | | | | |
| G2 | 5 | E52 | | | NSD | | | | | | | |
| G2 | 6 | E44 | | | NSD | | | | | | | |
| G2 | 7 | F43 | | | NSD | | | | | | | |

Lab/Cor Sample No: S6
Client Sample No: CL-125

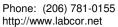
| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|-------------------------|
| G1 | 1 | E44 | | | NSD | | | | | | | |
| G1 | 2 | F43 | | | NSD | | | | | | | |
| G1 | 3 | F51 | | | NSD | | | | | | | |
| G1 | 4 | G51 | | | NSD | | | | | | | |
| G2 | 5 | F51 | | | NSD | | | | | | | |
| G2 | 6 | G43 | | | NSD | | | | | | | |
| G2 | 7 | G51 | | | NSD | | | | | | | |

Lab/Cor Sample No: S7
Client Sample No: CL-126

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width Aspe | ct Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|------------|------------|----------|---------|------------------|
| G1 | 1 | E34 | | NSD | | | | | | |
| G1 | 2 | F33 | | NSD | | | | | | |
| G1 | 3 | F41 | | NSD | | | | | | |
| G1 | 4 | G41 | | NSD | | | | | | |
| G2 | 5 | F44 | | NSD | | | | | | |
| G2 | 6 | G43 | | NSD | | | | | | |
| G2 | 7 | G51 | | NSD | | | | | | |

Lab/Cor Sample No: S8
Client Sample No: CL-127

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G51 | | | NSD | | | | | | | |
| G1 | 4 | E42 | | | NSD | | | | | | | |
| G2 | 5 | E52 | | | NSD | | | | | | | |
| G2 | 6 | F51 | | | NSD | | | | | | | |
| G2 | 7 | F43 | | | NSD | | | | | | | |





Job Number: 220520 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + EnvironmentalReport Number: 220520R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 5/19/2022

Lab/Cor Sample No: S9
Client Sample No: CL-128

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F34 | | NSD | | | | | | | |
| G1 | 2 | G33 | | NSD | | | | | | | |
| G1 | 3 | G41 | | NSD | | | | | | | |
| G1 | 4 | E42 | | NSD | | | | | | | |
| G2 | 5 | E42 | | NSD | | | | | | | |
| G2 | 6 | F41 | | NSD | | | | | | | |
| G2 | 7 | F33 | | NSD | | | | | | | |

Lab/Cor Sample No: S10 Client Sample No: CL-129

| Gr | No. | Loc. | ID Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|-------------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F52 | | NSD | | | | | | | |
| G1 | 2 | G51 | | NSD | | | | | | | |
| G1 | 3 | G43 | | NSD | | | | | | | |
| G1 | 4 | G33 | | NSD | | | | | | | |
| G2 | 5 | G34 | | NSD | | | | | | | |
| G2 | 6 | H33 | | NSD | | | | | | | |
| G2 | 7 | H41 | | NSD | | | | | | | |

Lab/Cor Sample No: S11
Client Sample No: CL-130

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | E44 | | | NSD | | | | | | | |
| G1 | 2 | F43 | | | NSD | | | | | | | |
| G1 | 3 | F51 | | | NSD | | | | | | | |
| G1 | 4 | C52 | | | NSD | | | | | | | |
| G1 | 5 | E51 | | | NSD | | | | | | | |
| G2 | 6 | E44 | | | NSD | | | | | | | |
| G2 | 7 | F43 | | | NSD | | | | | | | |
| G2 | 8 | F51 | | | NSD | | | | | | | |
| G2 | 9 | E34 | | | NSD | | | | | | | |
| G2 | 10 | F33 | | | NSD | | | | | | | |





Job Number: 220520 SEA Method 40-CFR Part 763 App. A, Subpart E

Client: PBS Engineering + EnvironmentalReport Number: 220520R02Project Name: Pierce College Olympic South Abatement and RepairsDate Received: 5/19/2022

Lab/Cor Sample No: S12 Client Sample No: CL-131

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|----|-----|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | F44 | | | NSD | | | | | | | |
| G1 | 2 | G43 | | | NSD | | | | | | | |
| G1 | 3 | G51 | | | NSD | | | | | | | |
| G1 | 4 | C42 | | | NSD | | | | | | | |
| G1 | 5 | E41 | | | NSD | | | | | | | |
| G2 | 6 | E42 | | | NSD | | | | | | | |
| G2 | 7 | F41 | | | NSD | | | | | | | |
| G2 | 8 | F42 | | | NSD | | | | | | | |
| G2 | 9 | G41 | | | NSD | | | | | | | |
| G2 | 10 | G42 | | | NSD | | | | | | | |

Lab/Cor Sample No: S13 Client Sample No: CL-132

| Gr | No. | Loc. | ID | Prim Tot | Class | Length | Width | Aspect | Analyte | Elements | Comment | Count Categories |
|-------|--------|------|----|----------|-------|--------|-------|--------|---------|----------|---------|------------------|
| G1 | 1 | G42 | | | NSD | | | | | | | |
| G1 | 2 | G41 | | | NSD | | | | | | | |
| G1 | 3 | F42 | | | NSD | | | | | | | |
| G1 | 4 | F41 | | | NSD | | | | | | | |
| G1 | 5 | E34 | | | NSD | | | | | | | |
| G1 | 6 | F33 | | | NSD | | | | | | | |
| G1 | 7 | F34 | | | NSD | | | | | | | |
| G2 | 8 | C42 | | | NSD | | | | | | | |
| G2 | 9 | E41 | | | NSD | | | | | | | |
| G2 | 10 | F41 | | | NSD | | | | | | | |
| Count | Catego | ries | | | | | | | | | | |

AHERA 0.5-5.0 AHERA >=0.5 to 5.0μm, 5:1

AHERA 5.0

AHERA >= $5.0\mu m$, 5:1

Reviewed by:

AHERA

X Kate March
Quality Control Officer

AHERA TOTAL >=0.5, 5:1





PBS Engineering and Environmental Inc. 234 (soats Street, 2011: 300 Statut, Was 98102 206.234.939

LABORATORY DATA SHEET

| roject Nam | ie: Pierce Col | lege Olyr | npic South | Project Name: Pierce College Olympic South Abatement and Repairs | | | WEATHER/TEMP: | R/TEMP: | | Comme | nts: 24H | Comments: 24HR TAT Email results | nail res | ults |
|------------------------|----------------------------------|-------------|-------------------|--|--------------|---------------|---------------|--|------------|----------------------|---------------------|--|----------|------|
| oroject No.: 40535.488 | 40535.488 | | | I.H.: Peter Stensland | | | 50s Sunny | ~ | | to Gregg and Clai | g.Midda re.Tsai@ | to Gregg.Middaugn@pbsusa.com and Claire.Tsai@pbsusa.com | susa.co | ğ |
| .ocation: La | ocation: Lakewood, WA | | | SAMPLE MEDIA/ANALYTICAL METHOD: | | | | | | | | | | |
| Contractor: Dickson | Dickson | | | AHERA | | | | | | | | | | |
| Client: DES | | | | | | | | | | | | | | |
| RELINQUISHED BY | HED BY (SIGN.): | 1 | DATE/TIN | DATE/TIME: 5/19/2022 | ANALYZED BY: | ED BY: | | | DATE/TIME: | ME: | | TWA: | | |
| RECEIVED | RECEIVED BY (SIGN.): | | DATE/TIN | | ANALYZED BY: | ED BY: | | | DATE/TIME: | ME | | | | |
| My | 2. Mil | | P. M. C. C. C. C. | 3/11/20 | | | | | | | | | | |
| CODES: | P PERSONAL | NAL | | C CLEARANCE | PRE | PRE-ABATEMENT | EMENT | | GBA | GLOVE BAG AREA | AG ARE | A | | |
| | IWA INSIDE AREA OWA OUTSIDE AREA | INSIDE AREA | | A AMBIENT AIR B BLANK | TEM I | CLEARANCE S | CE SAMPLE | m | I | HEPA | | | | |
| DATE | SAMPLE | CODE | BIIMB | LOCATION | BLANK | TIME | TIME | TOTAL | | FLOW | | TOTAL | FIB | FIB |
| 201.5 | NUMBER | 2000 | | ACTIVITY / PERSON | AVG | ON | OFF | TIME | PRE | POST | AVG | VOL | FLD | CC |
| 5/19/2022 | CL-120 | TEM | 6714 | East stairwell level 1 | | 0952 | 1152 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-121 | TEM | 208518 | East stainwell level 1 landing | | 0952 | 1152 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-123 | TEM | 8 2 | Fast stainwell level 2 landing | | 0953 | 1153 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-124 | TEM | 8297 | East stairwell level 3 | | 0954 | 1154 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-125 | TEM | HV1838 | Level 3 top of stairs outside stairwell | | 0917 | 1117 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-126 | TEM | 7058 | Level 3 top of stairs outside stairwell | | 0918 | 1118 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-127 | TEM | 1696 | Level 2 skybridge to cascade outside decon | | 0921 | 1121 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-128 | TEM | 10W40 | Top of scaffolding to skybridge to cascade | | 0925 | 1125 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-129 | TEM | 4173 | Top of scaffolding to skybridge to cascade | | 0927 | 1127 | 120 | 10 | 10 | 10 | 1200 | | |
| | CL-130 | , co | | Lab Blank | | | | | | | | | | |
| | CL-132 | В | | Field Blank | | | | Name of the last o | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |



Bulk PCB Sampling Information

Bulk PCB Sample Inventory

Bulk PCB Laboratory Data Sheets and Chain of Custody Documentation

| PBS Sample # | <u>Material</u> | Sample Location | <u>Analyte</u> | Lab Results (mg/kg) | <u>Lab</u> |
|-----------------|--------------------|-----------------------------------|----------------|---------------------|------------|
| 40535.488-PCB01 | Oil Hydronic Fluid | Olympic South, Room 181B elevator | Aroclor 1016 | ND | Fremont |
| | - | mechanical room | Aroclor 1221 | ND | Analytical |
| | | | Aroclor 1232 | ND | |
| | | | Aroclor 1242 | ND | |
| | | | Aroclor 1248 | ND | |
| | | | Aroclor 1254 | ND | |
| | | | Aroclor 1260 | ND | |
| | | | Aroclor 1262 | ND | |
| | | | Aroclor 1268 | ND | |



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PBS Engineering & Environmental

Gregg Middaugh 214 E Galer St. Suite 300 Seattle, WA 98102

RE: Pierce College Olympic South Abatement and Repairs

Work Order Number: 2201333

January 25, 2022

Attention Gregg Middaugh:

Fremont Analytical, Inc. received 1 sample(s) on 1/21/2022 for the analyses presented in the following report.

Polychlorinated Biphenyls (PCB) by EPA 8082

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes Project Manager CC: Claire Tsai

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Date: 01/25/2022

CLIENT: PBS Engineering & Environmental Work Order Sample Summary

Project: Pierce College Olympic South Abatement an

Work Order: 2201333

 Lab Sample ID
 Client Sample ID
 Date/Time Collected
 Date/Time Received

 2201333-001
 40535.488-PCB01
 01/21/2022 12:00 AM
 01/21/2022 2:45 PM



Case Narrative

WO#: **2201333**Date: **1/25/2022**

CLIENT: PBS Engineering & Environmental

Project: Pierce College Olympic South Abatement and Repairs

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2201333-001A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2201333-001A) required Florisil Cleanup Procedure (Using Method No 3620C).



Qualifiers & Acronyms

WO#: **2201333**

Date Reported: 1/25/2022

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

DUP - Sample Duplicate

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MCL - Maximum Contaminant Level

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

REP - Sample Replicate

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



Analytical Report

Work Order: **2201333**Date Reported: **1/25/2022**

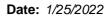
Client: PBS Engineering & Environmental Collection Date: 1/21/2022

Project: Pierce College Olympic South Abatement and Repairs

Lab ID: 2201333-001 **Matrix:** Product

Client Sample ID: 40535.488-PCB01

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------|------------|------------|------|-------|----------|----------------------|
| Polychlorinated Biphenyls (PCB) | by EPA 808 | <u>2</u> | | Batcl | n ID: 35 | 5117 Analyst: SB |
| Aroclor 1016 | ND | 0.909 | | mg/Kg | 1 | 1/24/2022 3:22:37 PM |
| Aroclor 1221 | ND | 0.909 | | mg/Kg | 1 | 1/24/2022 3:22:37 PM |
| Aroclor 1232 | ND | 0.909 | | mg/Kg | 1 | 1/24/2022 3:22:37 PM |
| Aroclor 1242 | ND | 0.909 | | mg/Kg | 1 | 1/24/2022 3:22:37 PM |
| Aroclor 1248 | ND | 0.909 | | mg/Kg | 1 | 1/24/2022 3:22:37 PM |
| Aroclor 1254 | ND | 0.909 | | mg/Kg | 1 | 1/24/2022 3:22:37 PM |
| Aroclor 1260 | ND | 0.909 | | mg/Kg | 1 | 1/24/2022 3:22:37 PM |
| Aroclor 1262 | ND | 0.909 | | mg/Kg | 1 | 1/24/2022 3:22:37 PM |
| Aroclor 1268 | ND | 0.909 | | mg/Kg | 1 | 1/24/2022 3:22:37 PM |
| Total PCBs | ND | 0.909 | | mg/Kg | 1 | 1/24/2022 3:22:37 PM |
| Surr: Decachlorobiphenyl | 63.1 | 25.9 - 167 | | %Rec | 1 | 1/24/2022 3:22:37 PM |
| Surr: Tetrachloro-m-xylene | 78.8 | 31.3 - 173 | | %Rec | 1 | 1/24/2022 3:22:37 PM |





Work Order: 2201333

QC SUMMARY REPORT

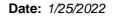
CLIENT: PBS Engineering & Environmental

Polychlorinated Biphenyls (PCB) by EPA 8082

Project: Pierce College Olympic South Abatement an

| Sample ID: MB-35117 | SampType: MBLK | | | Units: mg/Kg | | Prep Dat | te: 1/24/2 0 | 022 | RunNo: 72 7 | 761 | |
|----------------------------|------------------------|--------|-----------|--------------|------|--------------|---------------------|-------------|--------------------|----------|------|
| Client ID: MBLKS | Batch ID: 35117 | | | | | Analysis Dat | te: 1/24/2 0 | 022 | SeqNo: 148 | 85049 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1016 | ND | 0.0500 | | | | | | | | | |
| Aroclor 1221 | ND | 0.0500 | | | | | | | | | |
| Aroclor 1232 | ND | 0.0500 | | | | | | | | | |
| Aroclor 1242 | ND | 0.0500 | | | | | | | | | |
| Aroclor 1248 | ND | 0.0500 | | | | | | | | | |
| Aroclor 1254 | ND | 0.0500 | | | | | | | | | |
| Aroclor 1260 | ND | 0.0500 | | | | | | | | | |
| Aroclor 1262 | ND | 0.0500 | | | | | | | | | |
| Aroclor 1268 | ND | 0.0500 | | | | | | | | | |
| Total PCBs | ND | 0.0500 | | | | | | | | | |
| Surr: Decachlorobiphenyl | 171 | | 200.0 | | 85.3 | 25.9 | 167 | | | | |
| Surr: Tetrachloro-m-xylene | 206 | | 200.0 | | 103 | 31.3 | 173 | | | | |
| Sample ID: LCS1-35117 | SampType: LCS | | | Units: mg/Kg | | Prep Dat | te: 1/24/2 0 |)22 | RunNo: 72 7 | 761 | |
| Client ID: LCSS | Batch ID: 35117 | | | | | Analysis Dat | te: 1/24/2 0 |)22 | SeqNo: 148 | 85050 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1016 | 1.22 | 0.0500 | 1.000 | 0 | 122 | 54.1 | 142 | | | | |
| Aroclor 1260 | 1.22 | 0.0500 | 1.000 | 0 | 122 | 51.7 | 152 | | | | |
| Surr: Decachlorobiphenyl | 168 | | 200.0 | | 83.8 | 25.9 | 167 | | | | |
| Surr: Tetrachloro-m-xylene | 240 | | 200.0 | | 120 | 31.3 | 173 | | | | |
| Sample ID: LCS2-35117 | SampType: LCS | | | Units: mg/Kg | | Prep Dat | te: 1/24/2 0 |)22 | RunNo: 72 7 | 761 | |
| Client ID: LCSS | Batch ID: 35117 | | | | | Analysis Dat | te: 1/24/2 0 | 022 | SeqNo: 148 | 85051 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1254 | 1.02 | 0.0500 | 1.000 | 0 | 102 | 55.9 | 156 | | | | |
| Surr: Decachlorobiphenyl | 180 | | 200.0 | | 89.8 | 25.9 | 167 | | | | |
| Surr: Tetrachloro-m-xylene | 230 | | 200.0 | | 115 | 31.3 | 173 | | | | |

Original Page 6 of 9





Work Order: 2201333

QC SUMMARY REPORT

CLIENT: PBS Engineering & Environmental

Polychlorinated Biphenyls (PCB) by EPA 8082

Project: Pierce College Olympic South Abatement an

Sample ID: **LCS2-35117** SampType: **LCS** Units: **mg/Kg** Prep Date: **1/24/2022** RunNo: **72761**

Client ID: **LCSS** Batch ID: **35117** Analysis Date: **1/24/2022** SeqNo: **1485051**

Analyte Result RL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

| Sample ID: 2201334-076AMS | SampType: MS | | | Units: mg/l | Kg-dry | Prep Dat | e: 1/24/2 0 | 122 | RunNo: 72 7 | 761 | |
|-----------------------------------|----------------|--------|-----------|-------------|---------------|-------------|---------------------|-------------|--------------------|----------|------|
| Client ID: BATCH | Batch ID: 3511 | 7 | | | | Analysis Da | te: 1/24/2 0 |)22 | SeqNo: 148 | 35067 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1016 | 1.25 | 0.0529 | 1.057 | 0 | 118 | 26.5 | 166 | | | | |
| Aroclor 1260 | 1.24 | 0.0529 | 1.057 | 0 | 117 | 29.2 | 168 | | | | |
| Surr: Decachlorobiphenyl | 126 | | 211.4 | | 59.4 | 25.9 | 167 | | | | |
| Surr: Tetrachloro-m-xylene | 208 | | 211.4 | | 98.4 | 31.3 | 173 | | | | |
| Sample ID: 2201334-076AMSD | SampType: MSD | | | Units: mg/l | Kg-dry | Prep Dat | e: 1/24/20 |)22 | RunNo: 72 7 | 761 | |
| Client ID: BATCH | Batch ID: 3511 | 7 | | | | Analysis Da | te: 1/24/2 0 |)22 | SeqNo: 148 | 35068 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1016 | 1.23 | 0.0531 | 1.062 | 0 | 116 | 26.5 | 166 | 1.251 | 1.76 | 30 | |
| Aroclor 1260 | 1.18 | 0.0531 | 1.062 | 0 | 111 | 29.2 | 168 | 1.237 | 4.77 | 30 | |
| Curry Dagashlarahinhanul | 107 | | 212.4 | | 50.4 | 25.9 | 167 | | 0 | | |
| Surr: Decachlorobiphenyl | 101 | | | | | | | | | | |

Original Page 7 of 9



Sample Log-In Check List

| CI | ient Name: | PBS | Work Order Number | er: 2201333 | |
|---------------|-----------------|---|----------------------|--------------------|---------------|
| Lo | ogged by: | Gabrielle Coeuille | Date Received: | 1/21/2022 2 | 2:45:00 PM |
| <u>Cha</u> | in of Custo | <u>ody</u> | | | |
| 1. | Is Chain of C | ustody complete? | Yes 🗸 | No \square | Not Present |
| 2. | How was the | sample delivered? | <u>Client</u> | | |
| Log | <u>In</u> | | | | |
| 3. | Coolers are p | resent? | Yes \square | No 🗸 | NA \square |
| | | | No cooler presen | <u>t</u> | |
| 4. | Shipping conf | tainer/cooler in good condition? | Yes 🗸 | No \square | |
| | | s present on shipping container/cooler? Iments for Custody Seals not intact) | Yes | No 🗌 | Not Present ✓ |
| 6. | Was an atten | npt made to cool the samples? | Yes | No 🗹 | NA 🗌 |
| | | <u>u</u> | Inknown prior to rec | <u>eipt</u> | |
| 7. | Were all item | s received at a temperature of >2°C to 6°C * | Yes | No 🗆 | NA 🗸 |
| 8. | Sample(s) in | proper container(s)? | Yes 🗸 | No 🗆 | |
| 9. | Sufficient san | nple volume for indicated test(s)? | Yes 🗸 | No \square | |
| 10. | Are samples | properly preserved? | Yes 🗸 | No \square | |
| 11. | Was preserva | ative added to bottles? | Yes | No 🗸 | NA 🗌 |
| 12. | Is there head | space in the VOA vials? | Yes | No 🗌 | NA 🗹 |
| | | es containers arrive in good condition(unbroken)? | Yes 🗸 | No \square | |
| | | ork match bottle labels? | Yes 🗸 | No \square | |
| 15. | Are matrices | correctly identified on Chain of Custody? | Yes 🗸 | No 🗌 | |
| 16. | Is it clear wha | at analyses were requested? | Yes 🗸 | No \square | |
| 17. | Were all hold | ing times able to be met? | Yes 🗹 | No 🗌 | |
| Spe | cial Handli | ing (if applicable) | | | |
| | | otified of all discrepancies with this order? | Yes | No 🗆 | NA 🗹 |
| | Person | Notified: Date | | | |
| | By Who | | | ne Fax | In Person |
| | Regardi | | | TIO E T UX | I II I CISCII |
| | _ | Instructions: | | | |
| 19. | Additional rer | | | | |
| | | | | | |
| <u>item l</u> | Information | Itom # Tomp 9C | | | |

17.5

Sample 1

^{*} Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



LABORATORY CHAIN OF CUSTODY

2201333

| Project: Pierce C | ollege Olympic Sout | th Abatement and Repairs | Project #: 40535.4 | 488 |
|---|---------------------|--|--|---------|
| Analysis requested: | PCB analysis | | Date: 1/20/2021 | |
| Relinq'd by/Signatu Received by/Signat | ire: Claimy. | Harth | 7. | 1/2022 |
| | Email A | ALL INVOICES to: seattleap@p | bsusa.com | |
| E-mail results to: Brian Stanford Willem Mager Gregg Middaugh Mark Hiley Tim Ogden TURN AROUND TIME 1 Hour 2 Hours 4 Hours | | Prudy Stoudt-McRae Janet Murphy Kaitlin Soukup Claire Tsai Holly Tuttle 24 Hours 48 Hours | Mike Smith Ferman Fletch Ryan Hunter Toan Nguyen 3 Days Other | |
| | | SAMPLE DATA FORM | | |
| Sample # | Material | Locati | on | Lab |
| 40535.488-PCB01 | Oil Hydronic Fluid | Olympic South, Room 181B ele | vator mechanical room | Fremont |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
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