



Engineering +
Environmental

Limited Fungal Investigation

Natural Resources Building

1111 Washington Street SE
Olympia, Washington



Prepared for:

Vikki Poitra
State of Washington
Department of Enterprise Services
1500 Jefferson Street SE
Olympia, WA 98501

PBS Project Number 40535.103
January 2012

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1.0 EXECUTIVE SUMMARY

Building envelope failure has caused water intrusion at various locations throughout the Natural Resources Building in Olympia, Washington. The State of Washington Department of Enterprise Services (DES) retained S.M. Stemper Architects (SMSA) and Building Envelope Technology & Research (BET&R) to perform a building envelope investigation to identify the sources of the water intrusion and provide recommendations for repair. Preliminary results from the building envelope investigation have revealed roofing system failure and various deficiencies associated with the EIFS cladding, pre-cast concrete panel cladding and window systems throughout the building. Fungal growth associated with perimeter wall assemblies was discovered during the building envelope investigation.

PBS Engineering + Environmental (PBS) was retained by DES to conduct a limited fungal investigation of the Natural Resources Building. The purpose of the investigation was to determine the extent of fungal contamination in the interior of the building resulting from water intrusion associated with the building envelope failures, perform sampling for the presence of fungal particulate entrained in the air and in settled dust throughout the occupied areas of the building, and provide recommendations for remediation of fungal-contaminated materials encountered during the investigation.

The scope of PBS's investigation included:

- Visual inspection of perimeter wall cavities for the presence of fungal growth;
- Non-viable fungal air sampling;
- Non-viable fungal surface sampling.

The following summarizes PBS's findings and recommendations.

Wall Cavity Inspection

PBS cut 52 inspection holes in perimeter walls on the interior of the building at representative locations throughout the 1st through 6th Floors and Level P-1 for the purpose of determining the extent of fungal growth in the wall cavities.

- Significant fungal growth was observed inside the wall cavities on the south elevation of the 5th and 6th Floors on both the interior-face of the gypsum sheathing and the wall cavity-face of the gypsum wallboard.
- Significant water damage and active water leaks were observed inside the wall cavities on the south elevation of the 5th and 6th Floors.
- Minor fungal growth and water-saturated gypsum wallboard was observed behind the rubber cove base on the S-SW side of the Level P1 Multi-Purpose Room.
- Fungal growth was observed on the finished-side of the north wall in Room P195.
- Fungal growth was not observed on the finished-side of the perimeter walls throughout the building.
- With the exception of the south elevation of the 5th and 6th Floors, fungal growth was not observed on either the interior-face of the gypsum sheathing or the wall cavity-face of the gypsum wallboard inside the wall cavities at PBS's inspection hole locations.

- With the exception of the south elevation of the 5th and 6th Floors, only minor water staining was observed on the gypsum sheathing and wallboard inside the wall cavities at PBS's inspection hole locations.
- Standing water was observed on the floor in the locker area of the Level P-1 Men's Locker Room.
- Water staining was observed on the floor in Room P195C.
- Wet carpet was observed in Room P199A.

Non-viable Fungal Particulate Sampling

PBS collected 125 non-viable fungal air samples from representative locations throughout the building. Multiple samples were collected from outdoors as control samples to compare composition of indoor airborne particulates to that of the outdoor air. Laboratory analyses did not identify elevated concentrations of airborne fungal particulate on any of the samples collected from the building interior.

PBS collected 65 non-viable fungal surface samples from representative horizontal surface throughout the building to evaluate the composition of fungal particulate in settled dust. Surface samples were collected using the "tape-lift" method. Laboratory analyses did not identify elevated concentrations of fungal particulate on any of the samples collected.

Recommendations

- PBS recommends the removal of fungal and water-impacted building materials at the south elevation of the 5th and 6th Floors, including the gypsum sheathing, interior gypsum wallboard, and wall cavity insulation.
- PBS recommends the removal of the fungal-contaminated wallboard and associated wall cavity insulation from the north wall of Room P-195.
- PBS recommends the removal of fungal-contaminated wallboard and associated wall cavity insulation and water-impacted carpet from the Level P-1 Multi-Purpose Room.
- Fungal remediation at the above locations should be performed using appropriate contaminant control procedures, personal protective equipment, and work practices in accordance with the EPA document *Mold Remediation in Schools and Commercial Buildings*.
- Although fungal growth was not observed beyond the areas identified above, additional fungal-contaminated materials may be discovered during building envelope repair activities. Such materials should be removed or decontaminated in accordance with the EPA document *Mold Remediation in Schools and Commercial Buildings*.
- PBS recommends additional investigation to address potential water intrusion sources associated with the Level P-1 Multi-Purpose Room, the Men's Locker Room, Room P195, Room P-195C and P-199A.

2.0 INTRODUCTION

Background

The Natural Resources Building is a 6-story office building with three (3) parking levels (Level P-1, P-2 and P-3) and a mechanical penthouse. The total floor area of the building is approximately 352,000 square feet. In addition to parking, Level P-1 also houses storage rooms, geology labs, locker rooms, a multi-purpose room and mail room. The building was constructed in the early 1990s.

Building construction consists of structural steel beams and columns with steel floor decks and steel and concrete roof decks. The exterior cladding consists of pre-cast concrete panels up to the window level of the 2nd Floor. The remainder of the building is clad with an exterior insulation finish system (EIFS). The primary roof assemblies consist of low-sloped membrane roof systems covered with rock ballast material.

Building envelope failures associated with the cladding and roof systems have caused water intrusion into the building. Results from the building envelope investigation revealed roofing system failure and various failures/deficiencies associated with the EIFS cladding, pre-cast concrete panel cladding and window systems throughout the building. Fungal growth associated with perimeter wall assemblies was discovered in the wall cavities of the south elevation of the 5th and 6th Floors during the building envelope investigation.

PBS was retained by DES to conduct a limited fungal investigation of the Natural Resources Building as a result of the fungal growth discovered during the building envelope investigation. The purpose of the investigation was to determine the extent of fungal contamination on the interior of the building as a result of water intrusion associated with the building envelope failures and to perform sampling for the presence of fungal particulate entrained in the air and in settled dust throughout the occupied areas of the building.

Limitations

This study was limited to the tests and locations, as indicated, to determine the absence or presence of certain contaminants. The site may have other concerns that were not characterized by this study. Further study may be warranted. It is important to understand that statistically valid data comes only from exhaustive sampling and comparison of results to numerous control samples. The findings and conclusions of this investigation are not scientific certainties but, rather, probabilities based on professional judgment concerning the significance of the data gathered during the course of this investigation. PBS is not able to represent conditions on the site beyond those conditions detected or observed at the time of the investigation.

The spectrum of potential sources affecting indoor air quality is very broad and the sensitivity of individuals to these sources varies. This investigation was limited in scope and was not intended to be an exhaustive study but, rather, a screening of potential pollutants and/or sources that may cause occupant discomfort.

3.0 DISCUSSION OF FINDINGS

PBS conducted the limited fungal investigation at the Natural Resources Building in December 2012.

3.1 Perimeter Wall Cavity Inspection

PBS conducted a visual investigation of the perimeter wall cavities of the building to determine the general extent of fungal growth present in the wall cavities as a result of the building envelope failures and subsequent water intrusion. The following describes the general methodology PBS utilized during the wall cavity investigation.

- Inspection holes were cut after normal business hours to reduce potential building occupant exposure to fungal particulate;
- Polyethylene sheeting was placed on the floor beneath the hole to be cut;
- Inspection holes were cut into the gypsum wallboard using a Rotozip® drywall router with a high efficiency particulate air (HEPA) vacuum attachment;
- Upon completion of the wall cavity inspection at each location, the piece of wall board that had been cut out was placed back in the hole and sealed along the cut line with tape;
- Any wallboard debris on the polyethylene drop sheet and/or floor was HEPA-vacuumed.

PBS cut 52 inspection holes in the perimeter walls on the interior of the building at representative locations throughout the 1st Floor through 6th Floor and Level P-1. The wall cavity inspection was performed from December 21, 2011 to January 3, 2012. The findings of the wall cavity inspection are summarized below. Details regarding the conditions observed at each inspection hole are presented in Tab 2.

- Significant fungal growth was observed inside the wall cavities on the south elevation of the 5th and 6th Floors on both the interior-face of the gypsum sheathing and the wall cavity-face of the gypsum wallboard (See Figure 1 and 2 below).



Figure 1 - Fungal growth on wall cavity-face of wallboard at Inspection Hole #42 (Column 5-112).



Figure 2 - Fungal growth between 1st and 2nd layer of wallboard at Inspection Hole #49 (Column 6-104).

- Minor fungal growth and water-saturated gypsum wallboard and carpet was observed behind the rubber cove base on the S-SW side of the Level P1 Multi-Purpose Room (See Figure 3).
- Fungal growth was observed on the finished-side of the north wall in Room P195 (See Figure 4).
- Fungal growth was not observed on the finished-side of the perimeter walls throughout the building.
- With the exception of the south elevation of the 5th and 6th Floors, fungal growth was not observed on either the interior-face of the gypsum sheathing or the wall cavity-face of the gypsum wallboard inside the wall cavities at PBS’s inspection hole locations.
- Significant water damage and active water leakage was observed inside the wall cavities on the south elevation of the 5th and 6th Floors. (See Figure 5).
- With the exception of the south elevation of the 5th and 6th Floors, only minor water staining was observed on the gypsum sheathing and wallboard inside the wall cavities at PBS’s inspection hole locations.
- Standing water was observed on the floor in the locker area of the Level P-1 Men’s Locker Room. PBS was not able to inspect the wall cavity for fungal growth as the walls are obscured by lockers.
- Water staining was observed on the floor in Room P195C. Visible fungal growth was not observed.
- Wet carpet was observed in Room P199A. PBS was not able to inspect the wall cavity for fungal growth as the walls are obscured by casework and stored items.



Figure 3 - Fungal growth at base of Level P-1 Multi-Purpose Room.



Figure 4 - Fungal growth on north wall of Room P195.



Figure 5 - Active leaking at Inspection Hole #44 (Column 5-104).

3.2 Non-Viable Fungal Particulate Sampling

Human health can be affected by exposure to biological contaminants (microorganisms) in the air (bioaerosols) and biological contaminants on building materials. Microorganisms are among the most common organisms found on earth and have adapted to a wide variety of diverse environmental conditions. They can be found in environments in all parts of the world. Most microorganisms do not cause human sickness or other health complaints and some are essential to human health. The risk of illness from microorganisms increases when they grow in overwhelming numbers or multiply indoors.

Monitoring for biological contaminants can be helpful in determining whether a potential indoor air quality concern exists. Biological contaminants include fungi, bacteria, viruses, algae, amoebae, pollen grains, and their respective by-products. The following sections discuss the testing methods used during this investigation and the findings of those testing activities.

Non-Viable Fungal Particulate Air Sampling

PBS collected a total of 125 non-viable airborne fungal particulate samples from various areas throughout the building from December 16, 2011 and January 3, 2012. PBS collected a total of 13 outdoor samples as control samples to compare composition of indoor air particulates to that of the outdoor air. These samples were analyzed for non-viable fungal particulate to characterize the composition of airborne particulates at the test sites.

PBS collected samples of airborne particulate using the spore trap method. This method uses a high volume vacuum pump fitted with an Allergenco-D[®] cassette, manufactured by Environmental Monitoring Systems. The air pump draws a measured volume of air through the cassette, which impacts airborne particulates onto a specially treated glass slide mounted inside the cassette. The particles on the slide are stained and identified/quantified with an optical microscope by polarized light microscopy at a magnification of 400X. The high volume air pump is calibrated before and after testing with a pre-calibrated rotameter. The rotameter is calibrated annually with a primary standard.

Each sample was collected at a flow rate of 15 liters per minute for 10 minutes (150 liters total per sample) from approximately four (4) feet above floor level. The samples were labeled with unique identification numbers and delivered with chain-of-custody documentation to Lab/Cor, Inc. of Seattle, Washington. Laboratory analysis was conducted in accordance with American Conference of Governmental Industrial Hygienists (ACGIH) Guidelines for the Assessment of Bioaerosols in the Indoor Environment (1998).

Elevated airborne fungal particulate concentrations were **not** detected in any of the indoor samples as compared to the outdoor samples collected on the same day. The predominant types of fungal particulate identified in the indoor samples were identified in the outdoor samples. This is a strong indication that most of the fungal material identified in the indoor building originated from outdoors. Additionally, the data suggests that the fungal growth present in the perimeter wall cavities is not being entrained into the circulated air throughout the occupied areas of the building.

Refer to the attached sampling location diagrams, laboratory reports and chain-of-custody forms in Tab 2 for additional information.

3.3 Non-Viable Fungal Particulate Surface Sampling

PBS collected a total of 65 samples of settled dust via the “tape lift” sampling method. These samples were collected to determine the composition of fungal particulate in settled dust on surfaces throughout the building.

Samples were collected from December 14-16, 2011 using Environmental Monitoring System mold tape slides. These pre-manufactured microscope slides have adhesive applied to one side of the slide. The slide is placed adhesive-face down on a surface with accumulated settled dust.

The samples were labeled with unique identification numbers and delivered with chain-of-custody documentation to Lab/Cor, Inc. of Seattle, Washington for qualitative non-viable fungal identification. Characteristic morphologies were observed by optical microscopy at a magnification of 600x. Analytical results are reported in relative abundance of fungal particulate coverage of examined area; High (>70% coverage), Moderate (30%-70% coverage), Low (<30% coverage), and Trace <10 counts). The Minimum Reporting Limit is Trace (1-10 counts).

None of the surface samples collected revealed fungal particulate concentration in excess of a “Low” relative abundance. This is an indication that significant fungal particulate is not accumulating in settled dust throughout the occupied areas of the building.

4.0 CONCLUSIONS AND RECOMMENDATIONS

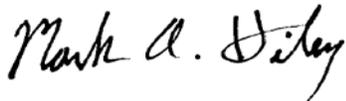
Based upon PBS’s field observations and the laboratory data associated with this investigation, PBS concludes and recommends the following:

- Significant fungal growth and water-impacted building materials were observed inside the wall cavities on the south elevation of the 5th and 6th Floors. PBS recommends the removal of fungal and water-impacted building materials at the south elevation of the 5th and 6th Floors, including the gypsum sheeting, interior gypsum wallboard, and wall cavity insulation.
- Fungal growth was observed on the finished-side of the north wall in Room P195. PBS recommends the removal of the fungal-contaminated wallboard and associated wall cavity insulation from the north wall of Room P-195.
- Minor fungal growth and water-saturated gypsum wallboard was observed behind the rubber cove base on the S-SW side of the Level P1 Multi-Purpose Room. PBS recommends the removal of the fungal-contaminated wallboard and associated wall cavity insulation and water-impacted carpet from the Multi-Purpose Room.
- Fungal remediation at the above locations should be performed using appropriate contaminant control procedures, personal protective equipment, and work practices in accordance with the EPA document *Mold Remediation in Schools and Commercial Buildings*.
- Although fungal growth was not observed beyond the areas identified above, additional fungal-contaminated materials may be discovered during building envelope repair activities. Such materials should be removed or decontaminated in accordance with the EPA document *Mold Remediation in Schools and Commercial Buildings*.
- PBS recommends additional investigation to address potential water intrusion sources associated with the Level P-1 Multi-Purpose Room, the Men’s Locker Room, Room P195, Room P-195C and P-199A.

- Elevated fungal particulate was **not** detected in any of the air or surface samples collected throughout the building. This is a strong indication that most of the fungal material identified on the interior samples originated from outdoors. Additionally, the data suggests that the fungal growth present in the perimeter wall cavities is not being entrained into the circulated air throughout the occupied areas of the building.

5.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

PBS has performed this investigation in conformance with current standard industry practices.



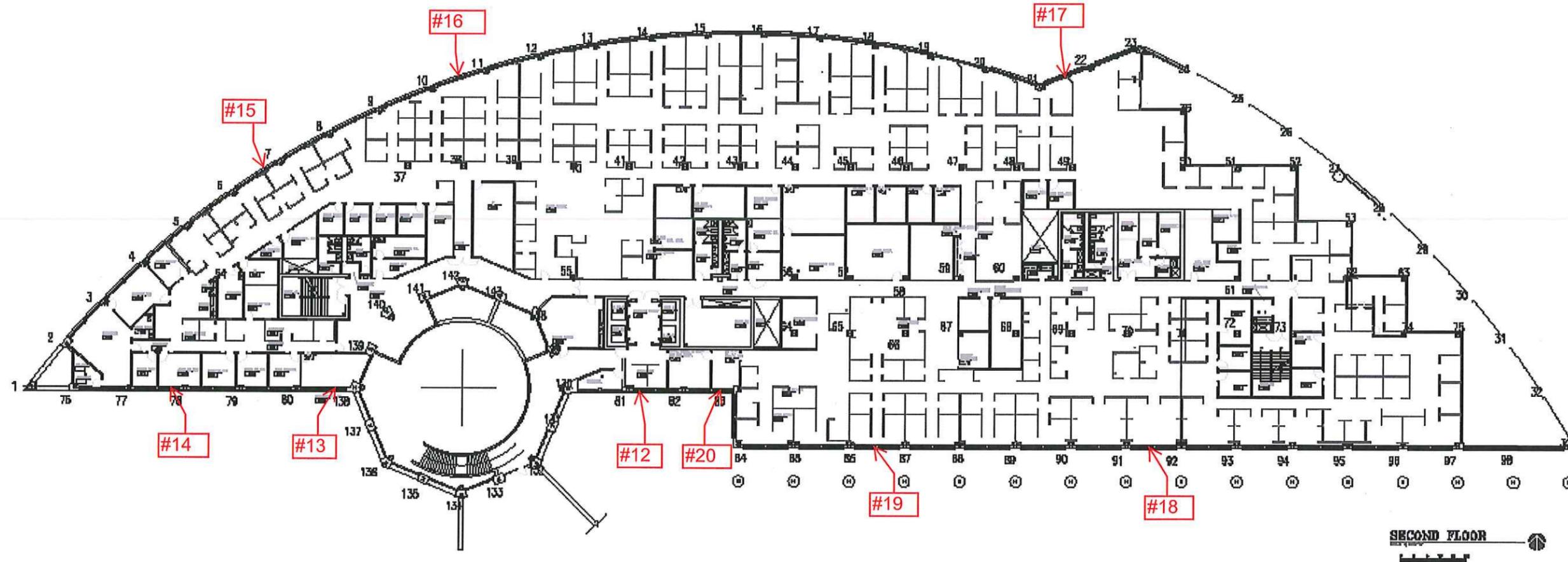
Mark A. Hiley
Senior Project Manager



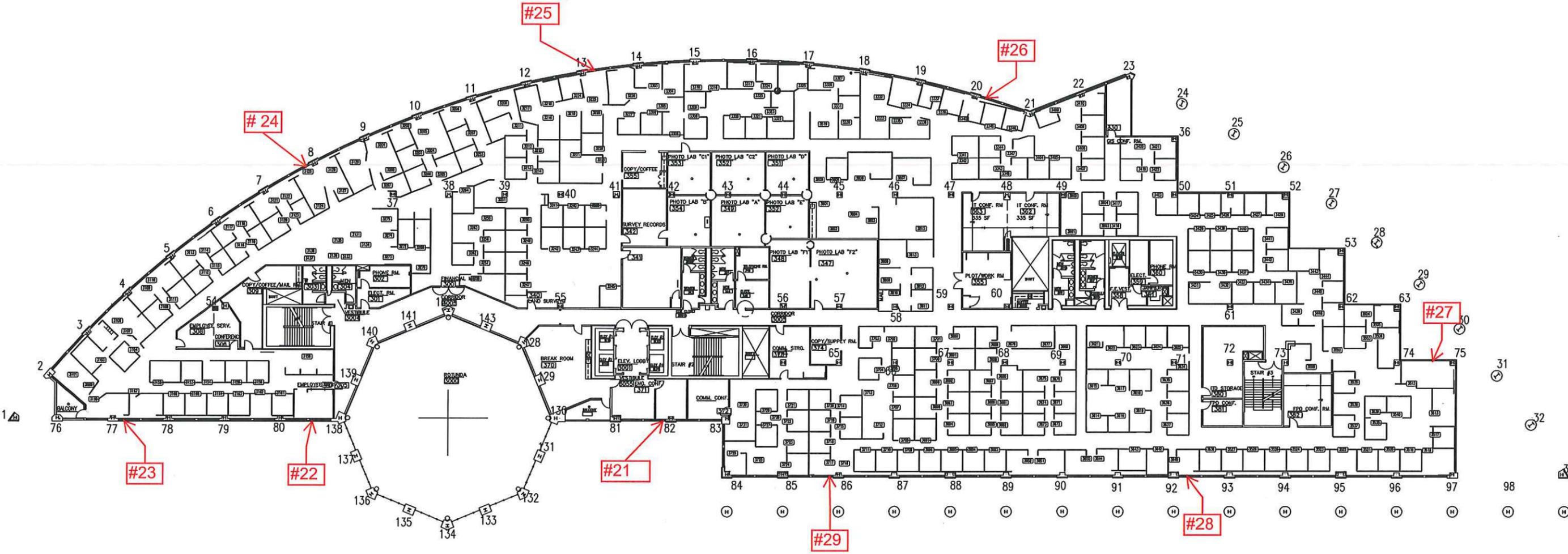
Brian C. Stanford
Regional Operations Manager

TAB 1
WALL CAVITY INSPECTION DOCUMENTATION

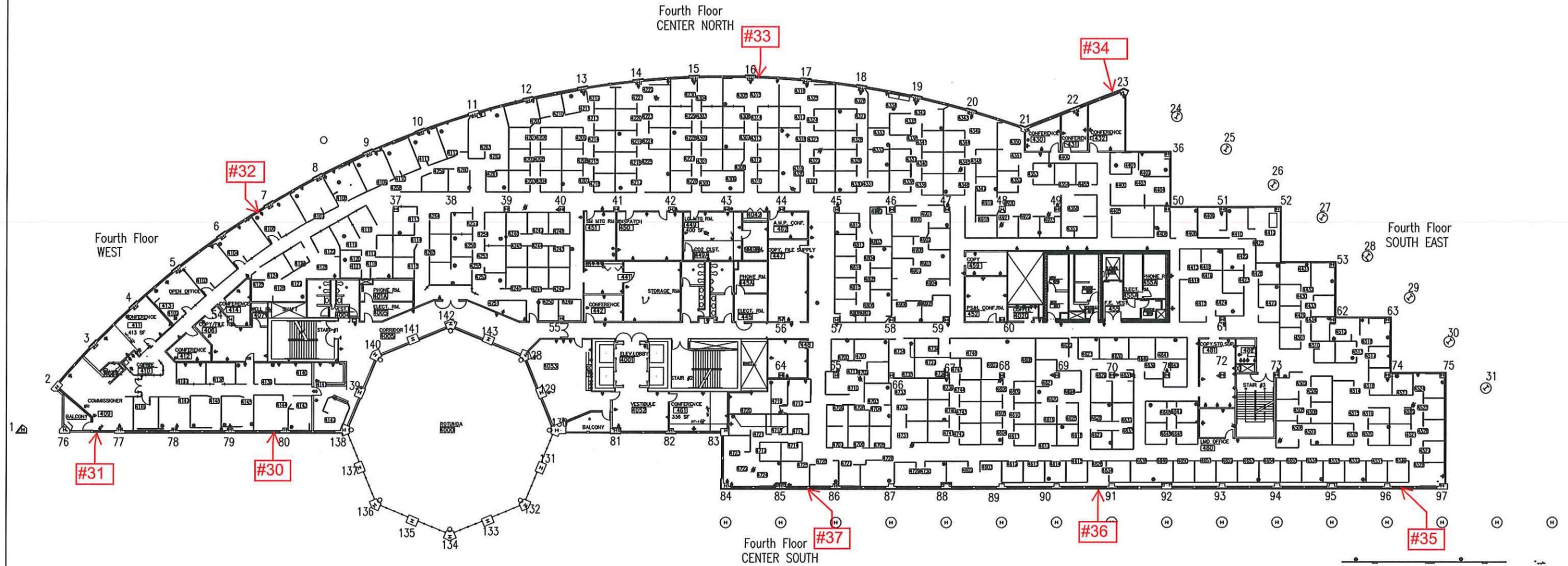
Inspection Hole Location Diagrams
Table 1 – Field Observation Details
Photographs



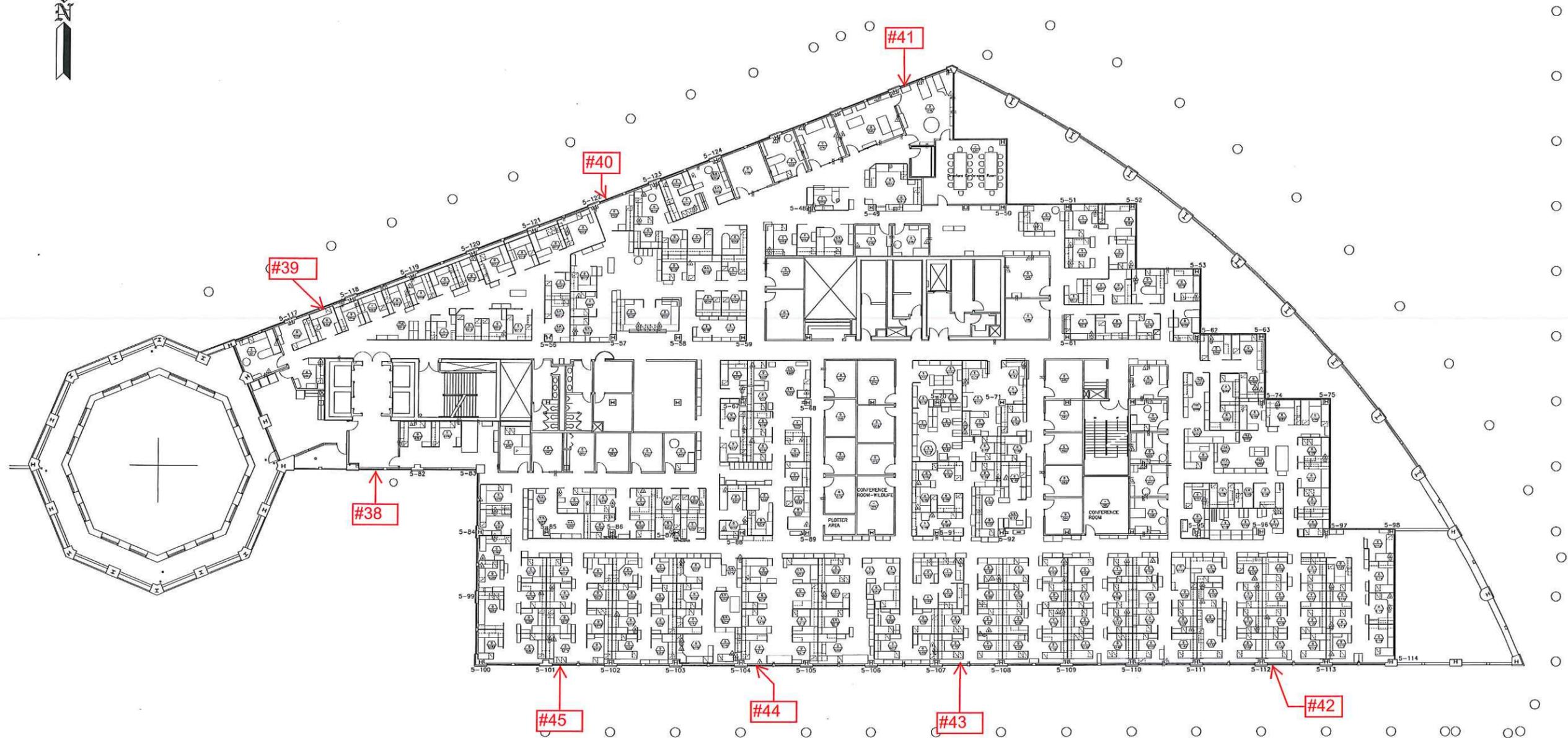
Wall Cavity Inspection Hole Locations - 3rd Floor
Natural Resources Building
Limited Fungal Investigation
Inspection Date: 12/22/11



Wall Cavity Inspection Hole Locations - 4th Floor
Natural Resources Building
Limited Fungal Investigation
Inspection Date: 12/22, 27/11



Wall Cavity Inspection Hole Locations - 5th Floor
Natural Resources Building
Limited Fungal Investigation
Inspection Date: 12/27/11



NRB 5TH FLOOR
SCALE: 1/16" = 1'-0"

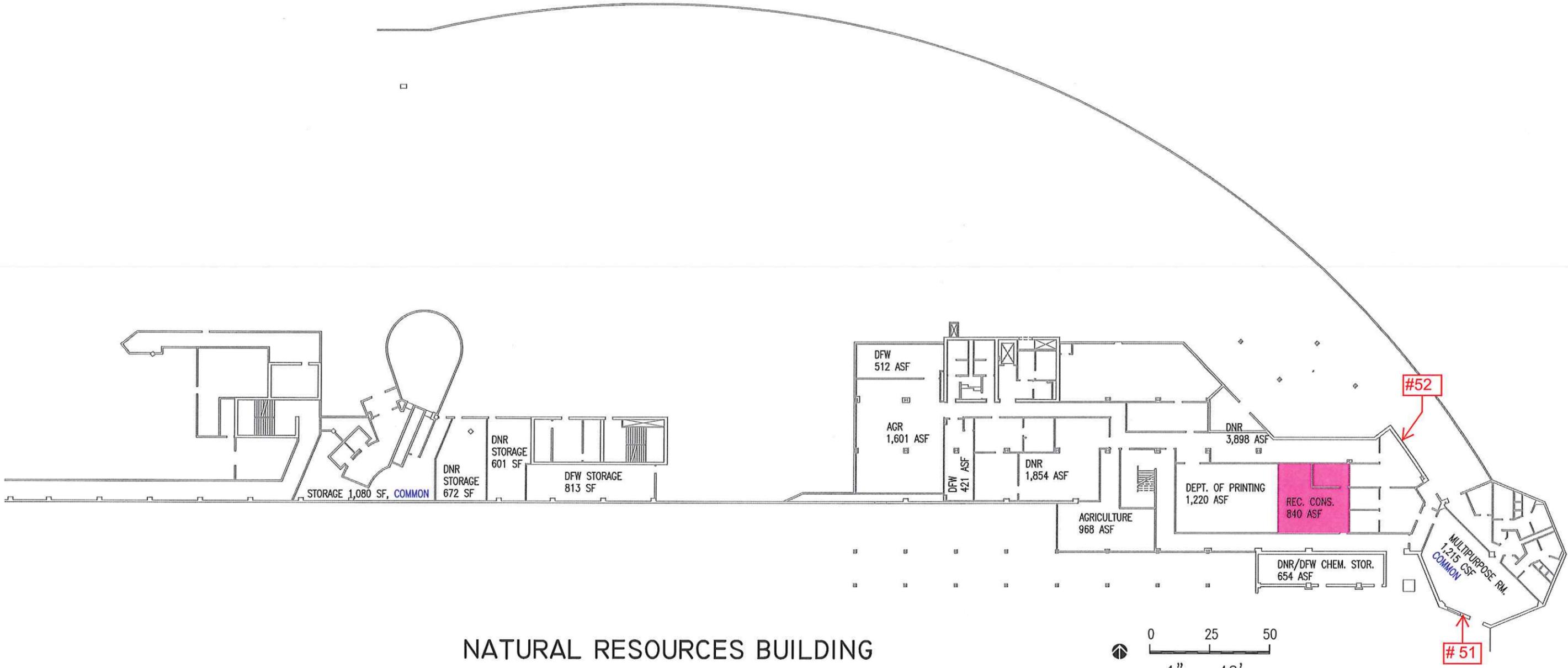


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NRB 6TH FLOOR
SCALE: 1/16" = 1'-0"





NATURAL RESOURCES BUILDING
P-1 LEVEL

0 25 50
1" = 40'
APRIL 9, 2008

Table 1 – Wall Cavity Inspection Observations

Inspection Hole #	Location	Comments
1	West of Column 1-80	No visible growth or water staining.
2	West wall of Room 108	No visible growth or water staining.
3	West of Column 1-5	No visible growth or water staining.
4	East of Column 1-7 (Room 109)	No visible growth or water staining.
5	East of Column 1-18	No visible growth or water staining.
6	East of Column 1-24	No visible growth or water staining.
7	East of Column 1-98	No visible growth or water staining.
8	East of Column 1-95	No visible growth or water staining.
9	West of Column 1-89	No visible growth or water staining.
10	East of Column 1-84	No visible growth. Minor water staining on concrete wall panel. Moisture visible at floor slab/wall panel junction.
11	East of Column 1-81	No visible growth or water staining.
12	East of Column 2-81	No visible growth or water staining.
13	West of Column 2-138	No visible growth or water staining.
14	West of Column 2-78	No visible growth. Minor water staining on concrete wall panel. Rust on metal framing at base of wall.
15	West of Column 2-7	No visible growth or water staining.
16	East of Column 2-10	No visible growth or water staining.
17	East of Column 2-21	No visible growth or water staining.
18	West of Column 2-92	No visible growth or water staining.
19	West of Column 2-87	No visible growth or water staining.
20	West of Column 2-83 (Room 272)	No visible growth or water staining.
21	West of Column 3-82	No visible growth. Minor water staining on sheathing and wallboard.
22	East of Column 3-80	No visible growth or water staining.
23	East of Column 3-77	No visible growth or water staining.
24	West of Column 3-8	No visible growth or water staining.
25	East of Column 3-13	No visible growth or water staining.
26	East of Column 3-20	No visible growth or water staining.
27	East of Column 3-74	No visible growth or water staining.
28	East of Column 3-92	No visible growth or water staining.
29	West of Column 3-86	No visible growth or water staining.
30	West of Column 4-80	No visible growth or water staining.
31	West of Column 4-77	No visible growth. Minor water staining on sheathing and wallboard.
32	West of Column 4-7	No visible growth or water staining.
33	East of Column 4-16	No visible growth or water staining.
34	West of Column 4-23	No visible growth or water staining.
35	East of Column 4-96	No visible growth or water staining.
36	East of Column 4-91	No visible growth or water staining.
37	West of Column 4-86	No visible growth or water staining.
38	East of Column 5-81	Visible growth on sheathing. Water staining and active wetting visible on sheathing.
39	East of Column 5-117	No visible growth or water staining.
40	East of Column 5-122	No visible growth or water staining.
41	East of Column 5-127	No visible growth or water staining.

Inspection Hole #	Location	Comments
42	East of Column 5-112	Visible growth on sheathing and wallboard. Active wetting visible on sheathing and wallboard.
43	West of Column 5-108	No visible growth. Water staining on sheathing and wallboard.
44	East of Column 5-104	Visible growth on sheathing and wallboard. Water staining and active wetting visible on sheathing.
45	West of Column 5-102	No visible growth on sheathing or wallboard. Water staining and active wetting visible on sheathing.
46	East of Column 6-120	No visible growth or water staining.
47	East of Column 6-125	No visible growth. Minor active wetting on sheathing.
48	East of Column 6-113	Visible growth on wall cavity-face of 2 nd layer of wallboard. Water staining on sheathing.
49	West of Column 6-104	Visible growth on between 2 layers of wallboard. Water staining and active wetting on sheathing.
50	West of Column 6-83	No visible growth. Water staining on sheathing.
51	South side of Multi-Purpose Room (Rm P-199)	Visible growth and wet wallboard at base of south-southwest wall.
52	East wall of Room P-195C	No visible growth on wallboard. Water staining on concrete floor.



1. View of wall cavity at Inspection Hole # 2 (West side of Rm. 108). Exterior concrete wall panel and fiberglass batt insulation are visible. No fungal growth or water staining observed.



2. View of Inspection Hole #5 (East of Column 1-18). No fungal growth or water staining observed.



3. View of Inspection Hole #12 (West of Column 2-81). No fungal growth or water staining observed.



4. View of wall cavity at Inspection Hole #12. No fungal growth or water staining observed.



5. View of Inspection Hole #14 (West of Column 2-78).



6. View of water staining on concrete wall panel and rust on metal framing at base of wall inside wall cavity at Inspection Hole #14. No fungal growth observed.



7. View of Inspection Hole #21 (West of Column 3-82).



8. Water staining on sheathing under window at Inspection Hole #21 (West of Column 3-82). No fungal growth observed.



9. Water stained gypsum wallboard at Inspection Hole #21 (West of Column 3-82). Gray fireproofing overspray is also visible on wallboard. No fungal growth observed.



10. View of Inspection Hole #26 (East of Column 3-20). No fungal growth or water staining observed.



11. View of gypsum sheathing looking up at the bottom of horizontal steel framing under window at Inspection Hole #26 (East of Column 3-20). No fungal growth or water staining observed.



12. View of Inspection Hole #28 (East of Column 3-92). No fungal growth or water staining observed.



13. View of gypsum sheathing looking down at mineral wool batting at Inspection Hole #28. No fungal growth or water staining observed.



14. View of water staining on sheathing under window at Inspection Hole #30 (East of Column 4-80). No fungal growth observed.



15. View of Inspection Hole #34 (East of Column 4-23). No fungal growth or water staining observed.



16. View of gypsum sheathing looking up at the bottom of horizontal steel framing under window at Inspection Hole #34. No fungal growth or water staining observed.



17. View of Inspection Hole #35 (East of Column 4-96). No growth or water staining observed.



18. View of Inspection Hole #38 (East of Column 5-81). No fungal growth or water staining observed.



19. Water staining and active wetting on sheathing at Inspection Hole #38 (East of Column 5-81). No fungal growth observed.



20. View of Inspection Hole #40 (East of Column 5-12). No fungal growth or water staining observed.



21. Visible fungal growth and active wetting on wallboard at Inspection Hole #42 (East of Column 5-112).



22. Wet sheathing from active water leak at Inspection Hole #42 (East of Column 5-112).



23. Visible fungal growth on wallboard at Inspection Hole #44 (East of Column 5-104).



24. Wet sheathing from active water leak at Inspection Hole #44 (East of Column 5-104).



25. View of Inspection Hole #47 (East of Column 6-125). No fungal growth or water staining observed.



26. View of water running down gypsum sheathing; looking up at horizontal steel framing under window at Inspection Hole #47 (East of Column 6-125). No visible growth observed.



27. Visible fungal growth on 2nd layer of wallboard at Inspection Hole #48 (East of Column 6-113).



28. Visible fungal growth between the two layers of wallboard at Inspection Hole #49 (East of Column 6-104).



29. Wet sheathing from active water leak at Inspection Hole #49 (East of Column 6-104); looking up at horizontal steel framing under window.



30. Water damaged window sill adjacent to Inspection Hole #50 (West of Column 6-82).



31. Wet sheathing from active water leak at Inspection Hole #50 (West of Column 6-83); looking up at horizontal steel framing under window.



32. Visible water on window sill at Column 6-82 (Room 630A).



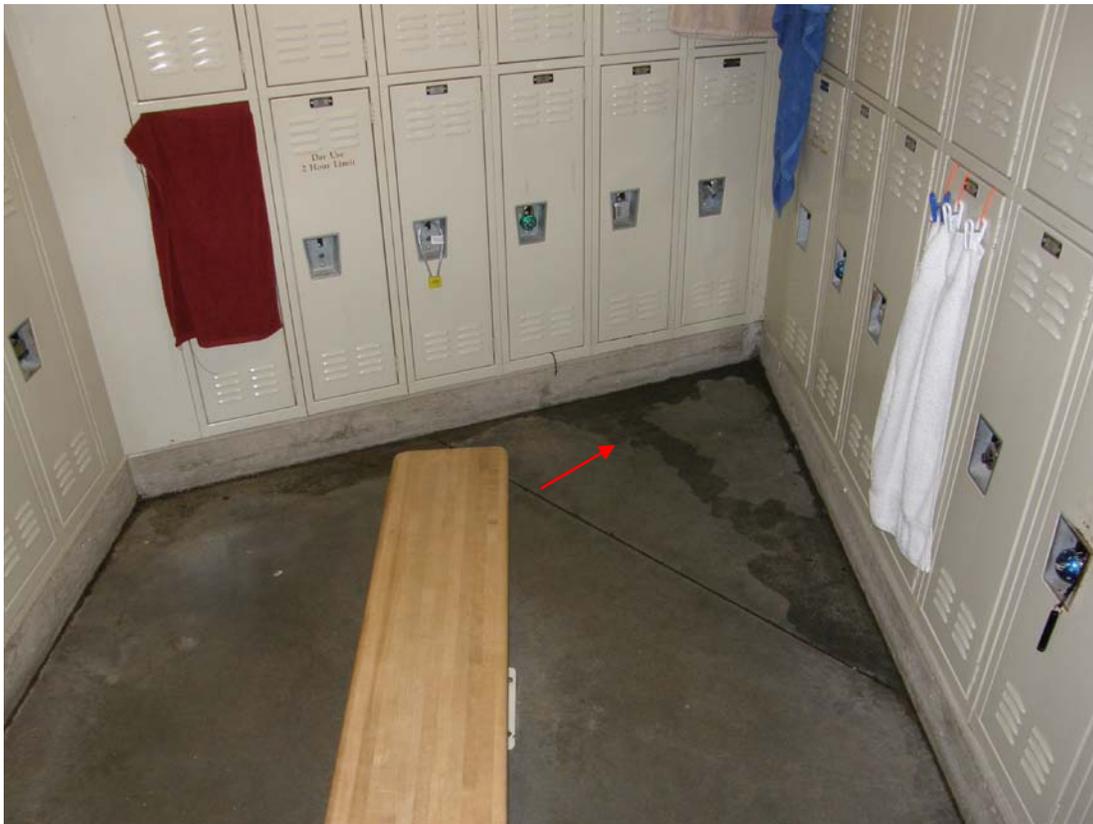
33. View of Inspection Hole #51 at south/southwest wall of Multi-Purpose Room (Room P199). No fungal growth or water staining observed.



34. Visible fungal growth and saturated wallboard at base of south/southwest wall in Multi-Purpose Room.



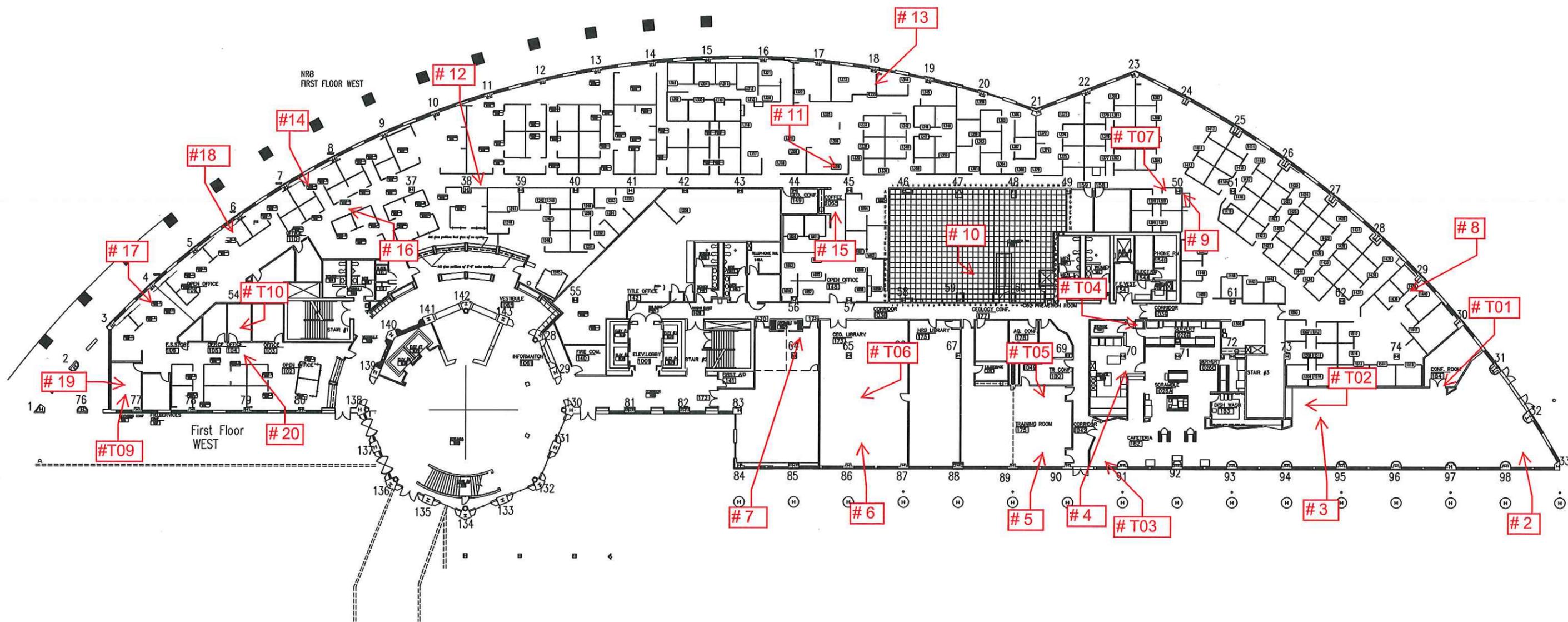
35. Fungal growth on north wall of Room P195.



36. Water on floor of Level P-1 Men's Locker Room.

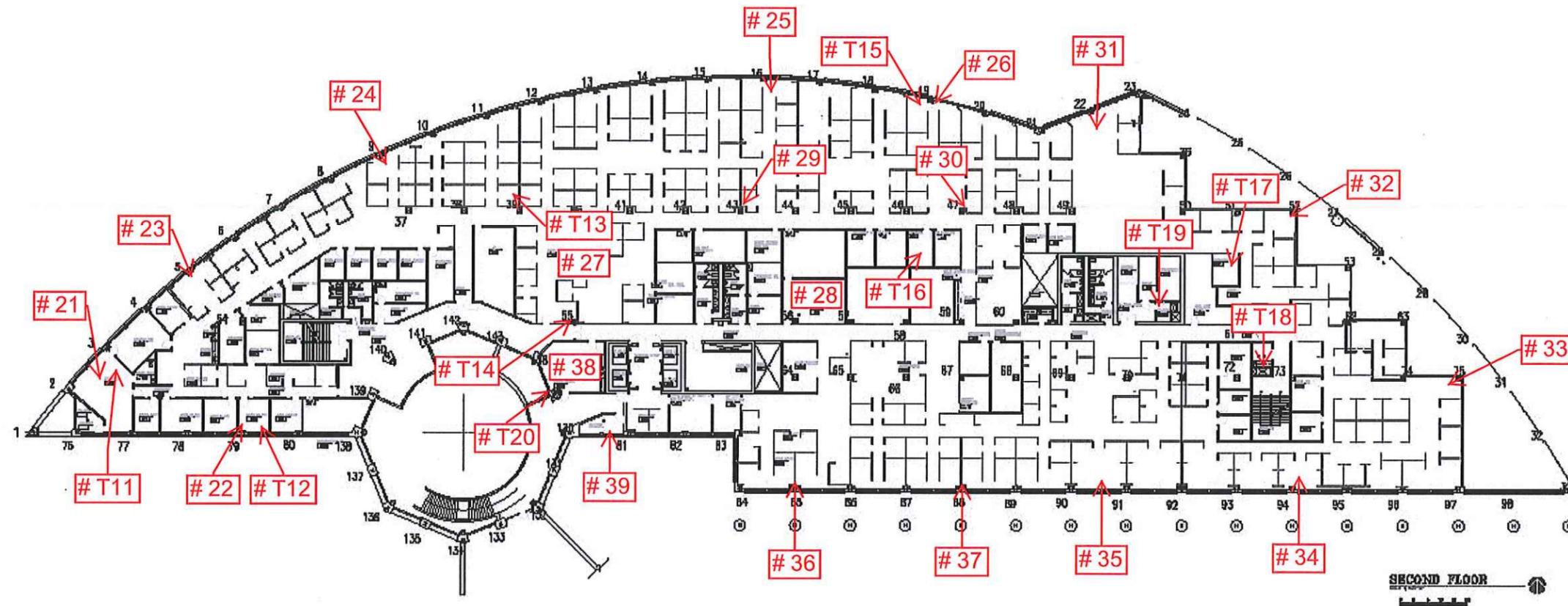
TAB 2
FUNGAL PARTICULATE SAMPLING DOCUMENTATION

Sample Location Diagrams
Non-Viable Air Sample Laboratory Reports
Non-Viable Surface Sample Laboratory Reports



- Air Sample, T# - Surface Tape Sample

Non-Viable Fungal Particulate Sample Locations - 2nd Floor
Natural Resources Building
Limited Fungal Investigation
Sample Date: 12/14/11

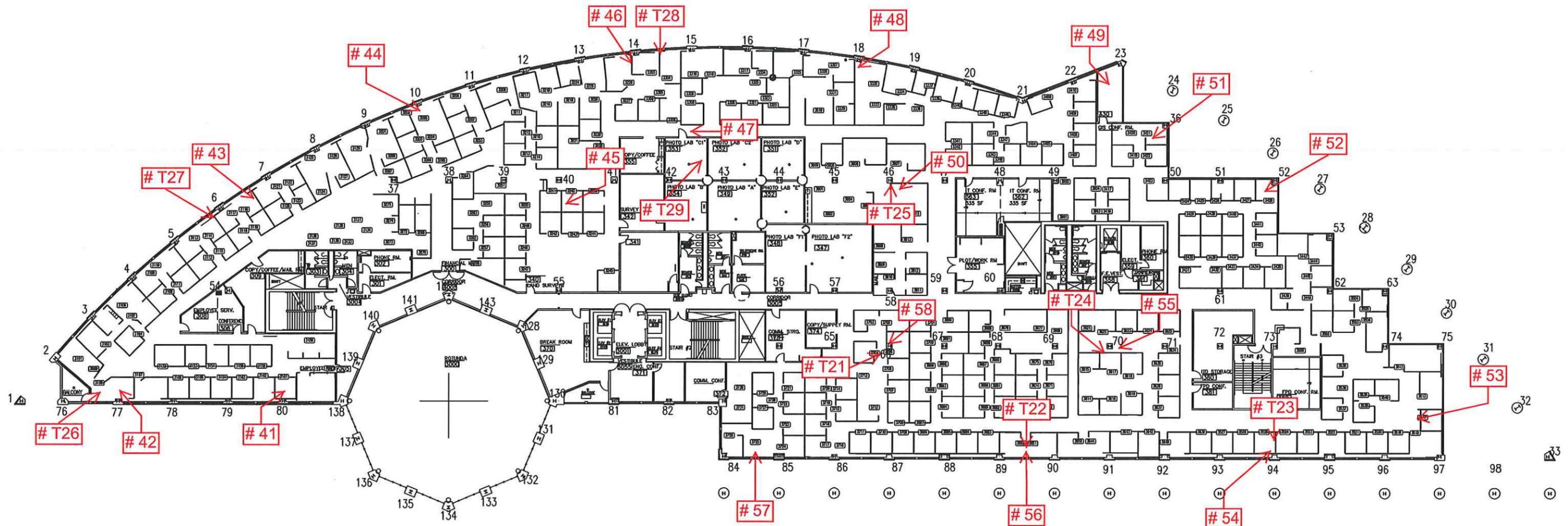


- Air Sample, T# - Surface Tape Sample



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Non-Viable Fungal Particulate Sample Locations - 3rd Floor
Natural Resources Building
Limited Fungal Investigation
Sample Date: 12/16/11

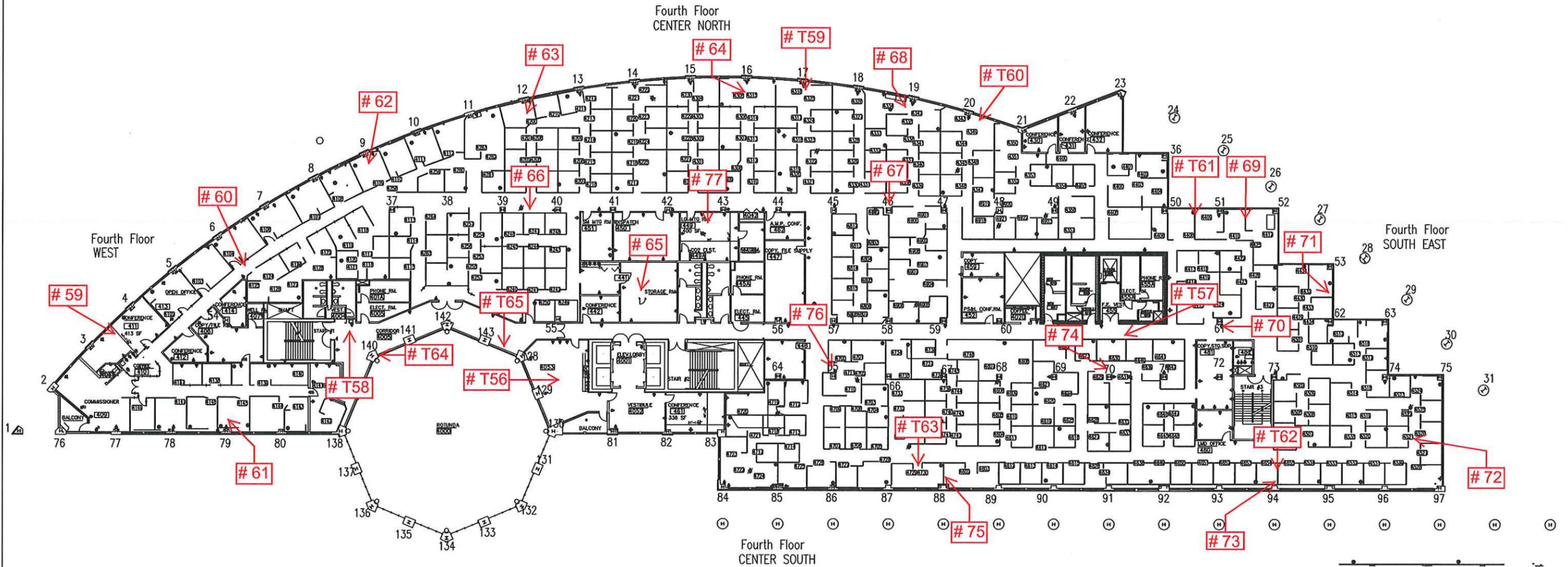


- Air Sample, T# - Surface Tape Sample



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Non-Viable Fungal Particulate Sample Locations - 4th Floor
Natural Resources Building
Limited Fungal Investigation
Sample Date: 12/15-16/11



- Air Sample, T# - Surface Tape Sample



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Non-Viable Fungal Particulate Sample Locations - 5th Floor
Natural Resources Building
Limited Fungal Investigation
Sample Date: 12/16/11



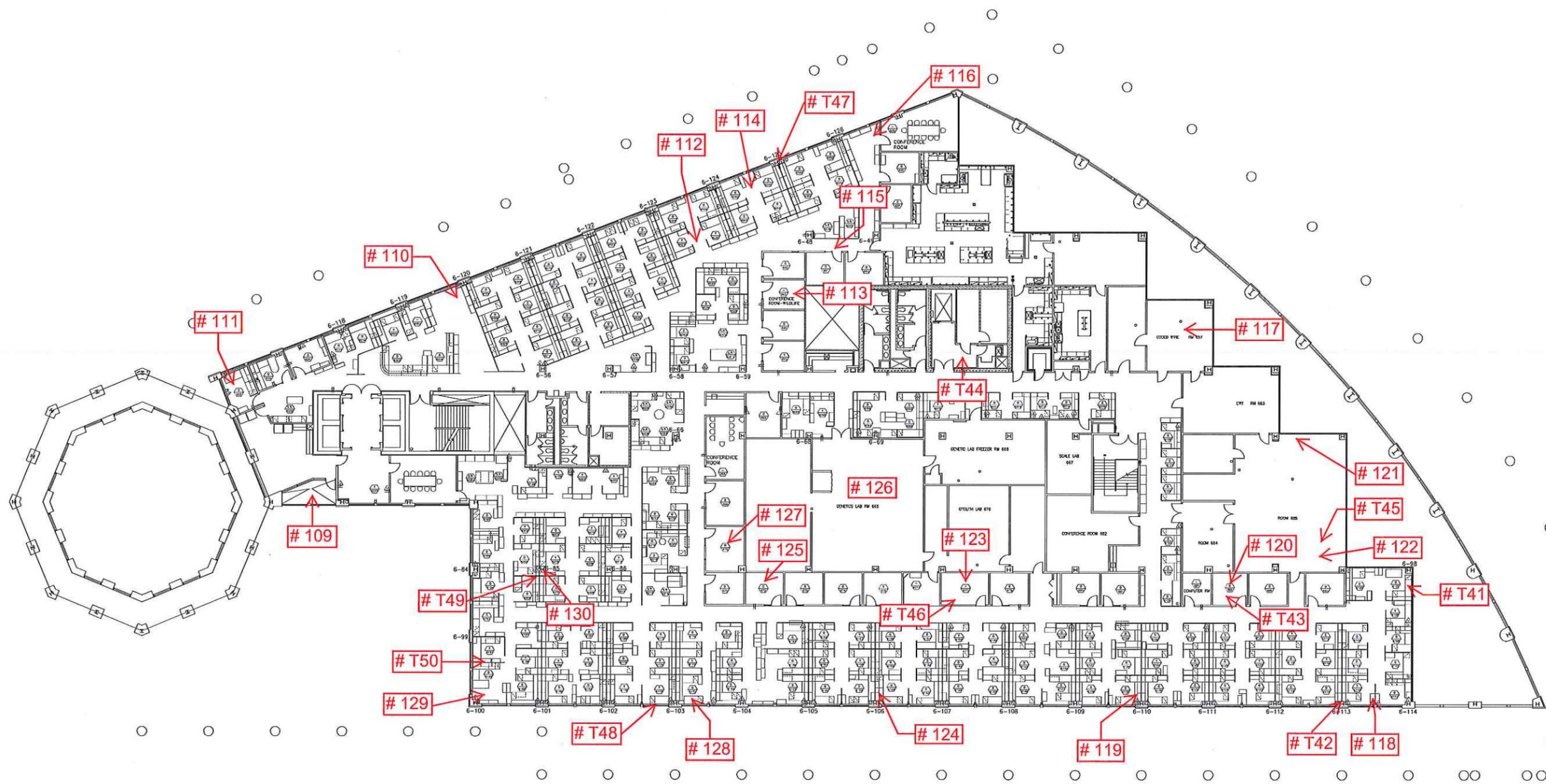
NRB 5TH FLOOR
SCALE: 1/16" = 1'-0"

- Air Sample, T# - Surface Tape Sample



Engineering +
Environmental

Non-Viable Fungal Particulate Sample Locations - 6th Floor
 Natural Resources Building
 Limited Fungal Investigation
 Sample Date: 12/16/11



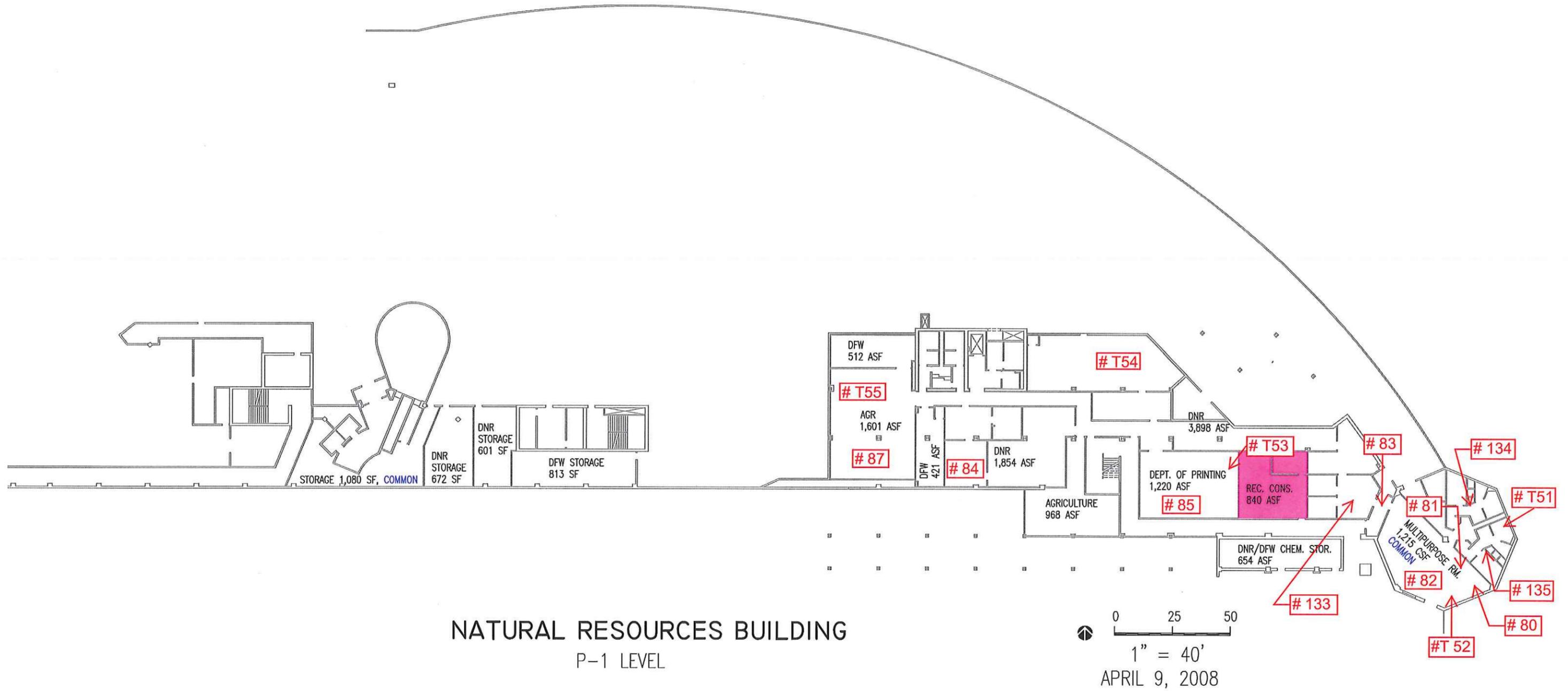
NRB 6TH FLOOR
 SCALE: 1/16" = 1'-0"

- Air Sample, T# - Surface Tape Sample



Engineering +
 Environmental

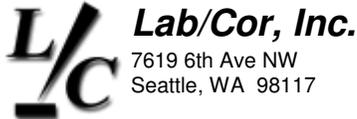
Non-Viable Fungal Particulate Sample Locations - Level P-1
 Natural Resources Building
 Limited Fungal Investigation
 Sample Date: 12/15-16/11 and 1/3/13



- Air Sample, T# - Surface Tape Sample



Engineering +
 Environmental



Lab/Cor, Inc.
7619 6th Ave NW
Seattle, WA 98117

Analysis Report Cover
Final Report

Phone: (206) 781-0155
Fax: (206) 789-8424
<http://www.labcor.net>

A Professional Service Corporation in the Northwest

Job Number: 111374 SEA
Client: PBS Engineering and Environmental, Inc.
Address: 2517 Eastlake Ave E
Suite 100
Seattle, WA 98102
Project Name: Natural Resources Bldg. Fl. 1
Project No.: 40535.103
PO Number:
Sub Project:
Reference No.:

Report Number: 111374R01
Report Date: 12/19/2011

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:
111374 - S1	1 - Exterior	NV, Air, Fungal ID		12/15/2011
111374 - S2	2 - 1st Fl. Cafeteria - East End	NV, Air, Fungal ID		12/15/2011
111374 - S3	3 - 1st Fl. Cafeteria - Center	NV, Air, Fungal ID	No fungi observed.	12/15/2011
111374 - S4	4 - 1st Fl. Kitchen	NV, Air, Fungal ID		12/15/2011
111374 - S5	5 - Conf Rm 157B	NV, Air, Fungal ID		12/15/2011
111374 - S6	6 - DNR Library - Rm 173	NV, Air, Fungal ID	No fungi observed.	12/15/2011
111374 - S7	7 - Conf Rm 171	NV, Air, Fungal ID	No fungi observed.	12/15/2011
111374 - S8	8 - Column 1-29	NV, Air, Fungal ID		12/15/2011
111374 - S9	9 - Column 1-50	NV, Air, Fungal ID		12/15/2011
111374 - S10	10 - 1st Fl. Computer Room	NV, Air, Fungal ID	No fungi observed.	12/15/2011
111374 - S11	11 - Col. 1-45	NV, Air, Fungal ID		12/15/2011
111374 - S12	12 - Col. 1-38	NV, Air, Fungal ID		12/15/2011
111374 - S13	13 - Col. 1-18	NV, Air, Fungal ID		12/15/2011
111374 - S14	14 - Conf. Rm 109	NV, Air, Fungal ID		12/15/2011
111374 - S15	15 - Kitchen	NV, Air, Fungal ID		12/15/2011
111374 - S16	16 - Outside Rm 109 in Printer Area	NV, Air, Fungal ID		12/15/2011
111374 - S17	17 - Col 1-4	NV, Air, Fungal ID	No fungi observed.	12/15/2011
111374 - S18	18 - Col 1-6	NV, Air, Fungal ID	No fungi observed.	12/15/2011
111374 - S19	19 - Office 108	NV, Air, Fungal ID	No fungi observed.	12/15/2011
111374 - S20	20 - Outside Office 104	NV, Air, Fungal ID	No fungi observed.	12/15/2011
111374 - S21	21 - Office 212	NV, Air, Fungal ID		12/14/2011
111374 - S22	22 - Office 208	NV, Air, Fungal ID		12/14/2011
111374 - S23	23 - Column 2-5	NV, Air, Fungal ID		12/14/2011
111374 - S24	24 - Column 2-9	NV, Air, Fungal ID		12/14/2011
111374 - S25	25 - Column 2-16	NV, Air, Fungal ID		12/14/2011
111374 - S26	26 - Column 2-19	NV, Air, Fungal ID		12/14/2011
111374 - S27	27 - 10 ft from Column 2-55 in File Storage Area	NV, Air, Fungal ID		12/14/2011
111374 - S28	28 - Room 248	NV, Air, Fungal ID		12/14/2011
111374 - S29	29 - Column 2-43	NV, Air, Fungal ID		12/14/2011
111374 - S30	30 - Column 2-47	NV, Air, Fungal ID		12/14/2011
111374 - S31	31 - Col. 2-22	NV, Air, Fungal ID		12/14/2011
111374 - S32	32 - Col. 2-52	NV, Air, Fungal ID		12/14/2011
111374 - S33	33 - 10 ft from Column 2-75	NV, Air, Fungal ID		12/14/2011
111374 - S34	34 - 10 ft from Column 2-94	NV, Air, Fungal ID		12/14/2011
111374 - S35	35 - 10 ft from Column 2-90	NV, Air, Fungal ID		12/14/2011



Lab/Cor, Inc.
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Seattle, WA 98117

Final Report

Phone: (206) 781-0155
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A Professional Service Corporation in the Northwest

Job Number: 111374 SEA Report Number: 111374R01
Client: PBS Engineering and Environmental, Inc.
Project Name: Natural Resources Bldg. Fl. 1 Report Date: 12/19/2011

111374 - S36	36 - Column 2-85	NV, Air, Fungal ID	12/14/2011
111374 - S37	37 - Column 2-88	NV, Air, Fungal ID	12/14/2011
111374 - S38	38 - Column Break Room	NV, Air, Fungal ID	12/14/2011
111374 - S39	39 - Outside 1st Floor S. Patio Deck	NV, Air, Fungal ID	12/14/2011

Nonviable Air Air samples follow preparation and analysis techniques outlined in Method 5 of the laboratory SOP. Samples were collected using either a Zefon, Cycllex-D, or M2 Multi-Mold nonviable air sample cassette. Characteristic morphologies were observed by optical microscopy at a magnification of 600x. For each individual particle type observed, data was reported in particles per cubic meter of air (m3).

Due to various factors that influence uncertainty (media type, particle loading, staining, instrumentation and other variable aspects of the method), only the first two figures reported are considered to be significant. The area analyzed on each sample is 20%.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory did not have control over sample collection. 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,

Eryn Fink

Eryn Fink
Analyst

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S1	S2
Sample No.:	1	2
Description:	Exterior	1st Fl. Cafeteria - East End
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/16/2011	CJ - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores	15	75	500			
Aspergillus/ Penicillium-like						
Basidiospores	112	560	3733			
Cladosporium	1	5	33			
Hyphal Fragments				1	5	33
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum				1	5	33
Unidentified Spore						
Summary Total:	128	640	4266	2	10	66

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S3	S4
Sample No.:	3	4
Description:	1st Fl. Cafeteria - Center	1st Fl. Kitchen
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/16/2011	CJ - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like				3	15	100
Basidiospores				2	10	67
Cladosporium				1	5	33
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore						
Summary Total:				6	30	200

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S5	S6
Sample No.:	5	6
Description:	Conf Rm 157B	DNR Library - Rm 173
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/16/2011	CJ - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		No fungi observed.

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores	1	5	33			
Cladosporium						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum	1	5	33			
Unidentified Spore						
Summary Total:	2	10	66			

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S7	S8
Sample No.:	7	8
Description:	Conf Rm 171	Column 1-29
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/16/2011	CJ - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores				1	5	33
Cladosporium				1	5	33
Hyphal Fragments				1	5	33
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore				1	5	33
Summary Total:				4	20	132

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S9	S10
Sample No.:	9	10
Description:	Column 1-50	1st Fl. Computer Room
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/16/2011	CJ - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		No fungi observed.

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores	1	5	33			
Cladosporium						
Hyphal Fragments	1	5	33			
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore	2	10	67			
Summary Total:	4	20	133			

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S11	S12
Sample No.:	11	12
Description:	Col. 1-45	Col. 1-38
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/16/2011	CJ - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores				1	5	33
Aspergillus/ Penicillium-like	1	5	33	1	5	33
Basidiospores	1	5	33	2	10	67
Cladosporium						
Hyphal Fragments	2	10	67			
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum	1	5	33			
Unidentified Spore				1	5	33
Summary Total:	5	25	166	5	25	166

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S13	S14
Sample No.:	13	14
Description:	Col. 1-18	Conf. Rm 109
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/16/2011	CJ - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria				1	5	33
Ascospores						
Aspergillus/ Penicillium-like	1	5	33			
Basidiospores						
Cladosporium						
Hyphal Fragments	2	10	67			
Myxo./ Periconia/ Smuts	2	10	67			
Stachybotrys chartarum						
Unidentified Spore	1	5	33	1	5	33
Summary Total:	6	30	200	2	10	66

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S15	S16
Sample No.:	15	16
Description:	Kitchen	Outside Rm 109 in Printer Area
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/16/2011	CJ - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m ³	Raw Count*	Total Count**	Total/m ³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like	1	5	33			
Basidiospores				3	15	100
Cladosporium						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore						
Summary Total:	1	5	33	3	15	100

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S17	S18
Sample No.:	17	18
Description:	Col 1-4	Col 1-6
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/16/2011	CJ - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	No fungi observed.

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore						
Summary Total:						

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S19	S20
Sample No.:	19	20
Description:	Office 108	Outside Office 104
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/16/2011	CJ - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	No fungi observed.

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore						
Summary Total:						

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S21	S22
Sample No.:	21	22
Description:	Office 212	Office 208
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/16/2011	EF - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores	1	5	33	2	10	67
Cladosporium				1	5	33
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore				1	5	33
Summary Total:	1	5	33	4	20	133

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S23	S24
Sample No.:	23	24
Description:	Column 2-5	Column 2-9
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/16/2011	EF - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like				3	15	100
Basidiospores	2	10	67			
Cladosporium						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore						
Summary Total:	2	10	67	3	15	100

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S25	S26
Sample No.:	25	26
Description:	Column 2-16	Column 2-19
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/16/2011	EF - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like	1	5	33	2	10	67
Basidiospores	1	5	33	1	5	33
Cladosporium						
Hyphal Fragments	1	5	33			
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore						
Summary Total:	3	15	99	3	15	100

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S27	S28
Sample No.:	27	28
Description:	10 ft from Column 2-55 in File Storage Area	Room 248
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/16/2011	EF - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like	1	5	33	1	5	33
Basidiospores				3	15	100
Cladosporium						
Hyphal Fragments	1	5	33			
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore						
Summary Total:	2	10	66	4	20	133

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S29	S30
Sample No.:	29	30
Description:	Column 2-43	Column 2-47
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/16/2011	EF - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores	2	10	67	1	5	33
Cladosporium	1	5	33			
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore						
Summary Total:	3	15	100	1	5	33

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S31	S32
Sample No.:	31	32
Description:	Col. 2-22	Col. 2-52
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/16/2011	EF - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like	1	5	33	1	5	33
Basidiospores				1	5	33
Cladosporium						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore						
Summary Total:	1	5	33	2	10	66

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S33	S34
Sample No.:	33	34
Description:	10 ft from Column 2-75	10 ft from Column 2-94
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/16/2011	EF - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium	2	10	67			
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore				1	5	33
Summary Total:	2	10	67	1	5	33

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S35	S36
Sample No.:	35	36
Description:	10 ft from Column 2-90	Column 2-85
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/16/2011	EF - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores	2	10	67	1	5	33
Cladosporium				1	5	33
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore						
Summary Total:	2	10	67	2	10	66

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S37	S38
Sample No.:	37	38
Description:	Column 2-88	Column Break Room
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/16/2011	EF - 12/16/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Alternaria						
Ascospores						
Aspergillus/ Penicillium-like	1	5	33			
Basidiospores	1	5	33	2	10	67
Cladosporium	2	10	67	1	5	33
Hyphal Fragments				1	5	33
Myxo./ Periconia/ Smuts						
Stachybotrys chartarum						
Unidentified Spore						
Summary Total:	4	20	133	4	20	133

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111374

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111374R01

Date Received: 12/14/2011

Lab/Cor ID:	S39
Sample No.:	39
Description:	Outside 1st Floor S. Patio Deck
Sample Measure:	150 L
Media Type:	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/16/2011
MRL:	33
Scope - Magnification:	Olympus BHS - 600
Notes:	

Fungal Identification	Raw Count*	Total Count**	Total/m ³	Raw Count*	Total Count**	Total/m ³
Alternaria						
Ascospores	5	25	167			
Aspergillus/ Penicillium-like						
Basidiospores	107	535	3567			
Cladosporium	1	5	33			
Hyphal Fragments	2	10	67			
Myxo./ Periconia/ Smuts	1	5	33			
Stachybotrys chartarum						
Unidentified Spore	4	20	133			
Summary Total:	120	600	4000			

Reviewed by:

Eryn Fink
Eryn Fink

Eryn Fink
Analyst

* - Raw Counts per 20% of Sample

** - Total Count per Sample



Lab/Cor, Inc.
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Analysis Report Cover
Final Report

Phone: (206) 781-0155
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A Professional Service Corporation in the Northwest

Job Number: 111380 SEA
Client: PBS Engineering and Environmental, Inc.
Address: 2517 Eastlake Ave E
Suite 100
Seattle, WA 98102
Project Name: Natural Resources Bldg. Fl. 1
Project No.: 40535.103
PO Number:
Sub Project:
Reference No.:

Report Number: 111380R01
Report Date: 12/22/2011

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:
111380 - S1	40 - Outside	NV, Air, Fungal ID		12/16/2011
111380 - S2	41 - 10' from Column 3-80	NV, Air, Fungal ID		12/16/2011
111380 - S3	42 - @ Col. 3-77	NV, Air, Fungal ID		12/16/2011
111380 - S4	43 - Between Col. 3-6 and 3-7	NV, Air, Fungal ID		12/16/2011
111380 - S5	44 - Col. 3-10	NV, Air, Fungal ID		12/16/2011
111380 - S6	45 - Col. 3-40	NV, Air, Fungal ID		12/16/2011
111380 - S7	46 - Col. 3-14	NV, Air, Fungal ID		12/16/2011
111380 - S8	47 - Room 353 in Hall	NV, Air, Fungal ID		12/16/2011
111380 - S9	48 - Col. 3-18	NV, Air, Fungal ID	No fungi observed.	12/16/2011
111380 - S10	49 - Col. 3-22	NV, Air, Fungal ID	No fungi observed.	12/16/2011
111380 - S11	50 - Col. 3-46	NV, Air, Fungal ID	No fungi observed.	12/16/2011
111380 - S12	51 - Col. 3-36	NV, Air, Fungal ID	No fungi observed.	12/16/2011
111380 - S13	52 - Col. 3-52	NV, Air, Fungal ID	No fungi observed.	12/16/2011
111380 - S14	53 - Between Col. 3-75 and 3-75	NV, Air, Fungal ID		12/16/2011
111380 - S15	54 - Col. 3-94	NV, Air, Fungal ID		12/16/2011
111380 - S16	55 - Col. 3-70	NV, Air, Fungal ID		12/16/2011
111380 - S17	56 - Between Col. 3-89 and 3-90	NV, Air, Fungal ID	No fungi observed.	12/16/2011
111380 - S18	57 - Col. 3-85 and 3-84	NV, Air, Fungal ID		12/16/2011
111380 - S19	58 - Col. 3-66	NV, Air, Fungal ID		12/16/2011
111380 - S20	59 - Between Col. 4-3 and 4-4	NV, Air, Fungal ID		12/16/2011
111380 - S21	60 - At Col. 4-6 in Hall	NV, Air, Fungal ID		12/16/2011
111380 - S22	61 - Col. 4-79	NV, Air, Fungal ID		12/16/2011
111380 - S23	62 - Col. 4-9	NV, Air, Fungal ID		12/16/2011
111380 - S24	63 - Col. 4-12	NV, Air, Fungal ID		12/16/2011
111380 - S25	64 - Col. 4-16	NV, Air, Fungal ID	No fungi observed.	12/16/2011
111380 - S26	65 - Room 441	NV, Air, Fungal ID		12/16/2011
111380 - S27	66 - Between Col. 4-39 and 40	NV, Air, Fungal ID		12/16/2011
111380 - S28	67 - Col. 4-46	NV, Air, Fungal ID		12/16/2011
111380 - S29	68 - Col. 4-19	NV, Air, Fungal ID		12/16/2011
111380 - S30	69 - Between Columns 4-51, 4-52	NV, Air, Fungal ID		12/16/2011
111380 - S31	70 - Col. 4-61	NV, Air, Fungal ID		12/16/2011
111380 - S32	71 - Between Col. 4-53, 4-62	NV, Air, Fungal ID		12/16/2011
111380 - S33	72 - Between Col. 4-95, 4-96	NV, Air, Fungal ID		12/16/2011
111380 - S34	73 - Col. 4-94	NV, Air, Fungal ID		12/16/2011
111380 - S35	74 - Col. 4-70	NV, Air, Fungal ID		12/16/2011
111380 - S36	75 - Col. 4-88	NV, Air, Fungal ID	No fungi observed.	12/16/2011



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Final Report

Phone: (206) 781-0155
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A Professional Service Corporation in the Northwest

Job Number: 111380 SEA Report Number: 111380R01
Client: PBS Engineering and Environmental, Inc. Report Date: 12/22/2011
Project Name: Natural Resources Bldg. Fl. 1

111380 - S37	76 - Col. 4-65	NV, Air, Fungal ID	12/16/2011
111380 - S38	77 - Emergency Operations Rm 449	NV, Air, Fungal ID	12/16/2011
111380 - S39	78 - Outside	NV, Air, Fungal ID	12/16/2011

Nonviable Air Air samples follow preparation and analysis techniques outlined in Method 5 of the laboratory SOP. Samples were collected using either a Zefon, Cycllex-D, or M2 Multi-Mold nonviable air sample cassette. Characteristic morphologies were observed by optical microscopy at a magnification of 600x. For each individual particle type observed, data was reported in particles per cubic meter of air (m3).

Due to various factors that influence uncertainty (media type, particle loading, staining, instrumentation and other variable aspects of the method), only the first two figures reported are considered to be significant. The area analyzed on each sample is 20%.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory did not have control over sample collection. 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,


X

Chandra Jeyabalan
Analyst

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S1	S2
Sample No.:	40	41
Description:	Outside	10' from Column 3-80
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores	40	200	1333			
Aspergillus/ Penicillium-like	2	10	67			
Basidiospores	163	815	5433	3	15	100
Cladosporium	5	25	167			
Epicoccum						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore						
Summary Total:	210	1050	7000	3	15	100

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S3	S4
Sample No.:	42	43
Description:	@ Col. 3-77	Between Col. 3-6 and 3-7
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores				2	10	67
Cladosporium	2	10	67			
Epicoccum						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore						
Summary Total:	2	10	67	2	10	67

* - Raw Counts per 20% of Sample
 ** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S5	S6
Sample No.:	44	45
Description:	Col. 3-10	Col. 3-40
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores	1	5	33	1	5	33
Cladosporium						
Epicoccum						
Ganoderma						
Hyphal Fragments				1	5	33
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore				1	5	33
Summary Total:	1	5	33	3	15	99

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S7	S8
Sample No.:	46	47
Description:	Col. 3-14	Room 353 in Hall
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores				1	5	33
Cladosporium				1	5	33
Epicoccum						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore	1	5	33			
Summary Total:	1	5	33	2	10	66

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S9	S10
Sample No.:	48	49
Description:	Col. 3-18	Col. 3-22
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	No fungi observed.

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium						
Epicoccum						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore						
Summary Total:						

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S11	S12
Sample No.:	50	51
Description:	Col. 3-46	Col. 3-36
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	No fungi observed.

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium						
Epicoccum						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore						
Summary Total:						

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S13	S14
Sample No.:	52	53
Description:	Col. 3-52	Between Col. 3-75 and 3-75
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores				1	5	33
Cladosporium						
Epicoccum						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore						
Summary Total:				1	5	33

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S15	S16
Sample No.:	54	55
Description:	Col. 3-94	Col. 3-70
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores				1	5	33
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium						
Epicoccum				1	5	33
Ganoderma						
Hyphal Fragments	1	5	33			
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore						
Summary Total:	1	5	33	2	10	66

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S17	S18
Sample No.:	56	57
Description:	Between Col. 3-89 and 3-90	Col. 3-85 and 3-84
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium				1	5	33
Epicoccum						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora				1	5	33
Rust Spore						
Unidentified Spore						
Summary Total:				2	10	66

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S19	S20
Sample No.:	58	59
Description:	Col. 3-66	Between Col. 4-3 and 4-4
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium						
Epicoccum						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore	1	5	33			
Unidentified Spore				1	5	33
Summary Total:	1	5	33	1	5	33

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S21	S22
Sample No.:	60	61
Description:	At Col. 4-6 in Hall	Col. 4-79
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores	1	5	33			
Aspergillus/ Penicillium-like						
Basidiospores				1	5	33
Cladosporium	1	5	33			
Epicoccum						
Ganoderma						
Hyphal Fragments	1	5	33			
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore	1	5	33			
Summary Total:	4	20	132	1	5	33

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S23	S24
Sample No.:	62	63
Description:	Col. 4-9	Col. 4-12
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores				1	5	33
Aspergillus/ Penicillium-like						
Basidiospores	1	5	33			
Cladosporium						
Epicoccum						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore	1	5	33			
Summary Total:	2	10	66	1	5	33

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S25	S26
Sample No.:	64	65
Description:	Col. 4-16	Room 441
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores				2	10	67
Cladosporium						
Epicoccum						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore						
Summary Total:				2	10	67

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S27	S28
Sample No.:	66	67
Description:	Between Col. 4-39 and 40	Col. 4-46
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like	1	5	33			
Basidiospores						
Cladosporium				2	10	67
Epicoccum						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore						
Summary Total:	1	5	33	2	10	67

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S29	S30
Sample No.:	68	69
Description:	Col. 4-19	Between Columns 4-51, 4-52
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like				1	5	33
Basidiospores						
Cladosporium						
Epicoccum						
Ganoderma						
Hyphal Fragments	1	5	33			
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore				1	5	33
Summary Total:	1	5	33	2	10	66

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S31	S32
Sample No.:	70	71
Description:	Col. 4-61	Between Col. 4-53, 4-62
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium				1	5	33
Epicoccum						
Ganoderma	1	5	33			
Hyphal Fragments	1	5	33			
Myxo./ Periconia/ Smuts	1	5	33			
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore	1	5	33			
Summary Total:	4	20	132	1	5	33

* - Raw Counts per 20% of Sample
 ** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S33	S34
Sample No.:	72	73
Description:	Between Col. 4-95, 4-96	Col. 4-94
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium				3	15	100
Epicoccum				1	5	33
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore	1	5	33	1	5	33
Summary Total:	1	5	33	5	25	166

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S35	S36
Sample No.:	74	75
Description:	Col. 4-70	Col. 4-88
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		No fungi observed.

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium						
Epicoccum						
Ganoderma						
Hyphal Fragments	1	5	33			
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore	1	5	33			
Summary Total:	2	10	66			

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S37	S38
Sample No.:	76	77
Description:	Col. 4-65	Emergency Operations Rm 449
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011	CJ - 12/19/2011
MRL:	33	1
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores	1	5	33			
Cladosporium						
Epicoccum						
Ganoderma				1	5	33
Hyphal Fragments	1	5	33			
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore	1	5	33			
Summary Total:	3	15	99	1	5	33

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111380

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg. Fl. 1

Project No.: 40535.103

Reference No.:

Report Number: 111380R01

Date Received: 12/16/2011

Lab/Cor ID:	S39
Sample No.:	78
Description:	Outside
Sample Measure:	150 L
Media Type:	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/19/2011
MRL:	33
Scope - Magnification:	Olympus BHS - 600
Notes:	

Fungal Identification	Raw Count*	Total Count**	Total/m ³	Raw Count*	Total Count**	Total/m ³
Ascospores	28	140	933			
Aspergillus/ Penicillium-like						
Basidiospores	72	360	2400			
Cladosporium	1	5	33			
Epicoccum						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Oidium/ Peronospora						
Rust Spore						
Unidentified Spore	2	10	67			
Summary Total:	103	515	3433			

Reviewed by:

Chandra Jeyabalan

Chandra Jeyabalan
Analyst

* - Raw Counts per 20% of Sample

** - Total Count per Sample



Lab/Cor, Inc.
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Seattle, WA 98117

Analysis Report Cover
Final Report

Phone: (206) 781-0155
Fax: (206) 789-8424
http://www.labcor.net

A Professional Service Corporation in the Northwest

Job Number: 111389 SEA
Client: PBS Engineering and Environmental, Inc.
Address: 2517 Eastlake Ave E
Suite 100
Seattle, WA 98102
Project Name: Natural Resources Bldg Fl. P1
Project No.: 40535.103
PO Number:
Sub Project:
Reference No.:

Report Number: 111389R01
Report Date: 12/22/2011

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:
111389 - S1	79 - Outside Bldg	NV, Air, Fungal ID		12/19/2011
111389 - S2	80 - Rm P199A	NV, Air, Fungal ID		12/19/2011
111389 - S3	81 - Outside Rm 199B	NV, Air, Fungal ID		12/19/2011
111389 - S4	82 - Rm P199	NV, Air, Fungal ID		12/19/2011
111389 - S5	83 - In Hall Outside Rm P199	NV, Air, Fungal ID		12/19/2011
111389 - S6	84 - DNR	NV, Air, Fungal ID	No fungi observed.	12/19/2011
111389 - S7	85 - Rm P194 Print Shop	NV, Air, Fungal ID		12/19/2011
111389 - S8	86 - DNR Mail Center - VOID NO Electricity	NV, Air, Fungal ID	Analysis was not done on the sample. Client void the sample. Please see the attached COC.	12/19/2011
111389 - S9	87 - Agriculture Mail Room	NV, Air, Fungal ID		12/19/2011

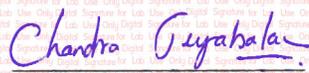
Nonviable Air Air samples follow preparation and analysis techniques outlined in Method 5 of the laboratory SOP. Samples were collected using either a Zefon, Cyclax-D, or M2 Multi-Mold nonviable air sample cassette. Characteristic morphologies were observed by optical microscopy at a magnification of 600x. For each individual particle type observed, data was reported in particles per cubic meter of air (m3).

Due to various factors that influence uncertainty (media type, particle loading, staining, instrumentation and other variable aspects of the method), only the first two figures reported are considered to be significant. The area analyzed on each sample is 20%.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory did not have control over sample collection. 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,


Chandra Jeyabalan

Chandra Jeyabalan
Analyst

Nonviable Air

Job Number: 111389

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. P1

Project No.: 40535.103

Reference No.:

Report Number: 111389R01

Date Received: 12/19/2011

Lab/Cor ID:	S1	S2
Sample No.:	79	80
Description:	Outside Bldg	Rm P199A
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores	21	105	700	1	5	33
Aspergillus/ Penicillium-like	16	80	533			
Basidiospores	66	330	2200	3	15	100
Cladosporium				1	5	33
Ganoderma				2	10	67
Hyphal Fragments				2	10	67
Myxo./ Periconia/ Smuts						
Unidentified Spore				1	5	33
Summary Total:	103	515	3433	10	50	333

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111389

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. P1

Project No.: 40535.103

Reference No.:

Report Number: 111389R01

Date Received: 12/19/2011

Lab/Cor ID:	S3	S4
Sample No.:	81	82
Description:	Outside Rm 199B	Rm P199
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like				1	5	33
Basidiospores	5	25	167	7	35	233
Cladosporium	4	20	133	6	30	200
Ganoderma				1	5	33
Hyphal Fragments						
Myxo./ Periconia/ Smuts				1	5	33
Unidentified Spore	2	10	67			
Summary Total:	11	55	367	16	80	532

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111389

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. P1

Project No.: 40535.103

Reference No.:

Report Number: 111389R01

Date Received: 12/19/2011

Lab/Cor ID:	S5	S6
Sample No.:	83	84
Description:	In Hall Outside Rm P199	DNR
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		No fungi observed.

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium	5	25	167			
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Unidentified Spore						
Summary Total:	5	25	167			

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111389

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. P1

Project No.: 40535.103

Reference No.:

Report Number: 111389R01

Date Received: 12/19/2011

Lab/Cor ID:	S7	S8
Sample No.:	85	86
Description:	Rm P194 Print Shop	DNR Mail Center - VOID NO Electricity
Sample Measure:	150 L	
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	0
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		Analysis was not done on the sample. Client void the sample. Please see the attached COC.

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores	2	10	67			
Cladosporium						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Unidentified Spore						
Summary Total:	2	10	67			

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111389

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. P1

Project No.: 40535.103

Reference No.:

Report Number: 111389R01

Date Received: 12/19/2011

Lab/Cor ID:	S9
Sample No.:	87
Description:	Agriculture Mail Room
Sample Measure:	150 L
Media Type:	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011
MRL:	33
Scope - Magnification:	Olympus BHS - 600
Notes:	

Fungal Identification	Raw Count*	Total Count**	Total/m ³	Raw Count*	Total Count**	Total/m ³
Ascospores	1	5	33			
Aspergillus/ Penicillium-like						
Basidiospores	1	5	33			
Cladosporium						
Ganoderma						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Unidentified Spore	1	5	33			
Summary Total:	3	15	99			

Reviewed by:

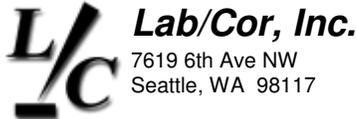
Chandra Jeyabalan
X

Chandra Jeyabalan

Analyst

* - Raw Counts per 20% of Sample

** - Total Count per Sample



Lab/Cor, Inc.

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Seattle, WA 98117

Analysis Report Cover
Final Report

A Professional Service Corporation in the Northwest

Phone: (206) 781-0155
Fax: (206) 789-8424
<http://www.labcor.net>

Job Number: 111390 SEA
Client: PBS Engineering and Environmental, Inc.
Address: 2517 Eastlake Ave E
Suite 100
Seattle, WA 98102
Project Name: Natural Resources Bldg Fl. 5
Project No.: 40535.103
PO Number:
Sub Project:
Reference No.:

Report Number: 111390R01
Report Date: 12/22/2011

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:
111390 - S1	88 - Outside S. Side of Bldg	NV, Air, Fungal ID		12/19/2011
111390 - S2	89 - Between Col 5-117, 5-118	NV, Air, Fungal ID		12/19/2011
111390 - S3	90 - Col. 5-121	NV, Air, Fungal ID		12/19/2011
111390 - S4	91 - Col. 5-123	NV, Air, Fungal ID		12/19/2011
111390 - S5	92 - Reception Desk	NV, Air, Fungal ID		12/19/2011
111390 - S6	93 - Room 534	NV, Air, Fungal ID		12/19/2011
111390 - S7	94 - Cubical 5054	NV, Air, Fungal ID		12/19/2011
111390 - S8	95 - Cubical 5076	NV, Air, Fungal ID	No fungi observed.	12/19/2011
111390 - S9	96 - Cubical 5102	NV, Air, Fungal ID	No fungi observed.	12/19/2011
111390 - S10	97 - Room 587	NV, Air, Fungal ID		12/19/2011
111390 - S11	98 - Col. 5-111	NV, Air, Fungal ID	No fungi observed.	12/19/2011
111390 - S12	99 - Col. 5-114	NV, Air, Fungal ID	No fungi observed.	12/19/2011
111390 - S13	100 - Room 583	NV, Air, Fungal ID	No fungi observed.	12/19/2011
111390 - S14	101 - Reception Area	NV, Air, Fungal ID		12/19/2011
111390 - S15	102 - Between 5-107 and 5-108	NV, Air, Fungal ID	No fungi observed.	12/19/2011
111390 - S16	103 - Room 569	NV, Air, Fungal ID	No fungi observed.	12/19/2011
111390 - S17	104 - Col. 5-105 and Col. 5-104	NV, Air, Fungal ID	No fungi observed.	12/19/2011
111390 - S18	105 - Between Col. 5-68 and 5-67	NV, Air, Fungal ID		12/19/2011
111390 - S19	106 - Between Col. 5-101 and 5-102	NV, Air, Fungal ID		12/19/2011
111390 - S20	107 - Col. 5-84	NV, Air, Fungal ID		12/19/2011
111390 - S21	108 - Break Room	NV, Air, Fungal ID		12/19/2011

Nonviable Air

Job Number: 111390

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 5

Project No.: 40535.103

Reference No.:

Report Number: 111390R01

Date Received: 12/19/2011

Lab/Cor ID:	S1	S2
Sample No.:	88	89
Description:	Outside S. Side of Bldg	Between Col 5-117, 5-118
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores	15	75	500			
Aspergillus/ Penicillium-like	1	5	33			
Basidiospores	567	2835	18900	1	5	33
Cladosporium				3	15	100
Hyphal Fragments				3	15	100
Myxo./ Periconia/ Smuts						
Pithomyces						
Unidentified Spore	3	15	100	1	5	33
Summary Total:	586	2930	19533	8	40	266

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111390

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 5

Project No.: 40535.103

Reference No.:

Report Number: 111390R01

Date Received: 12/19/2011

Lab/Cor ID:	S3	S4
Sample No.:	90	91
Description:	Col. 5-121	Col. 5-123
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like	1	5	33			
Basidiospores						
Cladosporium				1	5	33
Hyphal Fragments				1	5	33
Myxo./ Periconia/ Smuts	1	5	33			
Pithomyces						
Unidentified Spore						
Summary Total:	2	10	66	2	10	66

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111390

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 5

Project No.: 40535.103

Reference No.:

Report Number: 111390R01

Date Received: 12/19/2011

Lab/Cor ID:	S5	S6
Sample No.:	92	93
Description:	Reception Desk	Room 534
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium				2	10	67
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Pithomyces						
Unidentified Spore	1	5	33			
Summary Total:	1	5	33	2	10	67

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111390

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 5

Project No.: 40535.103

Reference No.:

Report Number: 111390R01

Date Received: 12/19/2011

Lab/Cor ID:	S7	S8
Sample No.:	94	95
Description:	Cubical 5054	Cubical 5076
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		No fungi observed.

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium						
Hyphal Fragments	1	5	33			
Myxo./ Periconia/ Smuts						
Pithomyces						
Unidentified Spore						
Summary Total:	1	5	33			

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111390

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 5

Project No.: 40535.103

Reference No.:

Report Number: 111390R01

Date Received: 12/19/2011

Lab/Cor ID:	S9	S10
Sample No.:	96	97
Description:	Cubical 5102	Room 587
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium				1	5	33
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Pithomyces						
Unidentified Spore						
Summary Total:				1	5	33

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111390

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 5

Project No.: 40535.103

Reference No.:

Report Number: 111390R01

Date Received: 12/19/2011

Lab/Cor ID:	S11	S12
Sample No.:	98	99
Description:	Col. 5-111	Col. 5-114
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	No fungi observed.

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Pithomyces						
Unidentified Spore						
Summary Total:						

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111390

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 5

Project No.: 40535.103

Reference No.:

Report Number: 111390R01

Date Received: 12/19/2011

Lab/Cor ID:	S13	S14
Sample No.:	100	101
Description:	Room 583	Reception Area
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium				1	5	33
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Pithomyces						
Unidentified Spore						
Summary Total:				1	5	33

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111390

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 5

Project No.: 40535.103

Reference No.:

Report Number: 111390R01

Date Received: 12/19/2011

Lab/Cor ID:	S15	S16
Sample No.:	102	103
Description:	Between 5-107 and 5-108	Room 569
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	No fungi observed.

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Pithomyces						
Unidentified Spore						
Summary Total:						

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111390

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 5

Project No.: 40535.103

Reference No.:

Report Number: 111390R01

Date Received: 12/19/2011

Lab/Cor ID:	S17	S18
Sample No.:	104	105
Description:	Col. 5-105 and Col. 5-104	Between Col. 5-68 and 5-67
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	33
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:	No fungi observed.	

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium				1	5	33
Hyphal Fragments				1	5	33
Myxo./ Periconia/ Smuts						
Pithomyces						
Unidentified Spore						
Summary Total:				2	10	66

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111390

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 5

Project No.: 40535.103

Reference No.:

Report Number: 111390R01

Date Received: 12/19/2011

Lab/Cor ID:	S19	S20
Sample No.:	106	107
Description:	Between Col. 5-101 and 5-102	Col. 5-84
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011	CJ - 12/21/2011
MRL:	33	1
Scope - Magnification:	Olympus BHS - 600	Olympus BHS - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores				1	5	33
Cladosporium						
Hyphal Fragments	1	5	33			
Myxo./ Periconia/ Smuts						
Pithomyces						
Unidentified Spore	1	5	33			
Summary Total:	2	10	66	1	5	33

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111390

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 5

Project No.: 40535.103

Reference No.:

Report Number: 111390R01

Date Received: 12/19/2011

Lab/Cor ID:	S21
Sample No.:	108
Description:	Break Room
Sample Measure:	150 L
Media Type:	Fungal-AllergencoD
Analyst - Analysis Date:	CJ - 12/21/2011
MRL:	33
Scope - Magnification:	Olympus BHS - 600
Notes:	

Fungal Identification	Raw Count*	Total Count**	Total/m ³	Raw Count*	Total Count**	Total/m ³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores						
Cladosporium						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Pithomyces	1	5	33			
Unidentified Spore						
Summary Total:	1	5	33			

Reviewed by:

Chandra Jeyabalan
Digital Signature for Lab Use Only

Chandra Jeyabalan
 Analyst

* - Raw Counts per 20% of Sample

** - Total Count per Sample



Lab/Cor, Inc.
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Seattle, WA 98117

Analysis Report Cover
Final Report

Phone: (206) 781-0155
Fax: (206) 789-8424
<http://www.labcor.net>

A Professional Service Corporation in the Northwest

Job Number: 111391 SEA
Client: PBS Engineering and Environmental, Inc.
Address: 2517 Eastlake Ave E
Suite 100
Seattle, WA 98102
Project Name: Natural Resources Bldg Fl. 6
Project No.: 40535.103
PO Number:
Sub Project:
Reference No.:

Report Number: 111391R01
Report Date: 12/23/2011

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:
111391 - S1	109 - Outside Break Room Balcony	NV, Air, Fungal ID		12/19/2011
111391 - S2	110 - Column 16-120	NV, Air, Fungal ID		12/19/2011
111391 - S3	111 - Col. 6-117	NV, Air, Fungal ID		12/19/2011
111391 - S4	112 - Between 1-23 and 1-24	NV, Air, Fungal ID		12/19/2011
111391 - S5	113 - Room 643	NV, Air, Fungal ID	No fungi observed.	12/19/2011
111391 - S6	114 - Between 6-124 and 6-125	NV, Air, Fungal ID		12/19/2011
111391 - S7	115 - Outside Rm 641	NV, Air, Fungal ID		12/19/2011
111391 - S8	116 - Outside Rm 635	NV, Air, Fungal ID		12/19/2011
111391 - S9	117 - Fish Lab	NV, Air, Fungal ID		12/19/2011
111391 - S10	118 - Between Col. 6-113 and 6-114	NV, Air, Fungal ID		12/19/2011
111391 - S11	119 - Col. 6-110	NV, Air, Fungal ID		12/19/2011
111391 - S12	120 - Rm 688	NV, Air, Fungal ID		12/19/2011
111391 - S13	121 - Rm 685 N	NV, Air, Fungal ID	No fungi observed.	12/19/2011
111391 - S14	122 - Rm 685 S	NV, Air, Fungal ID		12/19/2011
111391 - S15	123 - Rm 677	NV, Air, Fungal ID		12/19/2011
111391 - S16	124 - Column 6-106	NV, Air, Fungal ID		12/19/2011
111391 - S17	125 - Room 672	NV, Air, Fungal ID		12/19/2011
111391 - S18	126 - Chem Lab	NV, Air, Fungal ID		12/19/2011
111391 - S19	127 - Room 670	NV, Air, Fungal ID		12/19/2011
111391 - S20	128 - Column 6-103	NV, Air, Fungal ID		12/19/2011
111391 - S21	129 - Col 6-100	NV, Air, Fungal ID		12/19/2011
111391 - S22	130 - Col 6-85	NV, Air, Fungal ID		12/19/2011
111391 - S23	131 - Outside South	NV, Air, Fungal ID		12/19/2011

Job Number: 111391 SEA

Report Number: 111391R01

Client: PBS Engineering and Environmental, Inc.

Report Date: 12/23/2011

Project Name: Natural Resources Bldg Fl. 6

Nonviable Air Air samples follow preparation and analysis techniques outlined in Method 5 of the laboratory SOP. Samples were collected using either a Zefon, Cyclax-D, or M2 Multi-Mold nonviable air sample cassette. Characteristic morphologies were observed by optical microscopy at a magnification of 600x. For each individual particle type observed, data was reported in particles per cubic meter of air (m3).

Due to various factors that influence uncertainty (media type, particle loading, staining, instrumentation and other variable aspects of the method), only the first two figures reported are considered to be significant. The area analyzed on each sample is 20%.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory did not have control over sample collection. 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,



Eryn Fink
Analyst

Nonviable Air

Job Number: 111391

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 6

Project No.: 40535.103

Reference No.:

Report Number: 111391R01

Date Received: 12/19/2011

Lab/Cor ID:	S1	S2
Sample No.:	109	110
Description:	Outside Break Room Balcony	Column 16-120
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/22/2011	EF - 12/22/2011
MRL:	33	33
Scope - Magnification:	Olympus BHT-BH2 - 600	Olympus BHT-BH2 - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores				1	5	33
Aspergillus/ Penicillium-like				3	15	100
Basidiospores	5	25	167	4	20	133
Botrytis						
Cladosporium						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Rust Spore						
Unidentified Spore				1	5	33
Summary Total:	5	25	167	9	45	299

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111391

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 6

Project No.: 40535.103

Reference No.:

Report Number: 111391R01

Date Received: 12/19/2011

Lab/Cor ID:	S3	S4
Sample No.:	111	112
Description:	Col. 6-117	Between 1-23 and 1-24
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/22/2011	EF - 12/22/2011
MRL:	33	33
Scope - Magnification:	Olympus BHT-BH2 - 600	Olympus BHT-BH2 - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores	1	5	33	3	15	100
Aspergillus/ Penicillium-like				1	5	33
Basidiospores	3	15	100	2	10	67
Botrytis						
Cladosporium				2	10	67
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Rust Spore						
Unidentified Spore	2	10	67	1	5	33
Summary Total:	6	30	200	9	45	300

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111391

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 6

Project No.: 40535.103

Reference No.:

Report Number: 111391R01

Date Received: 12/19/2011

Lab/Cor ID:	S5	S6
Sample No.:	113	114
Description:	Room 643	Between 6-124 and 6-125
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/22/2011	EF - 12/22/2011
MRL:	33	33
Scope - Magnification:	Olympus BHT-BH2 - 600	Olympus BHT-BH2 - 600
Notes:	No fungi observed.	

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like				1	5	33
Basidiospores						
Botrytis						
Cladosporium						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Rust Spore						
Unidentified Spore						
Summary Total:				1	5	33

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111391

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 6

Project No.: 40535.103

Reference No.:

Report Number: 111391R01

Date Received: 12/19/2011

Lab/Cor ID:	S7	S8
Sample No.:	115	116
Description:	Outside Rm 641	Outside Rm 635
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/22/2011	EF - 12/22/2011
MRL:	33	33
Scope - Magnification:	Olympus BHT-BH2 - 600	Olympus BHT-BH2 - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores	1	5	33	1	5	33
Botrytis						
Cladosporium				2	10	67
Hyphal Fragments						
Myxo./ Periconia/ Smuts	2	10	67			
Rust Spore						
Unidentified Spore	1	5	33			
Summary Total:	4	20	133	3	15	100

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111391

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 6

Project No.: 40535.103

Reference No.:

Report Number: 111391R01

Date Received: 12/19/2011

Lab/Cor ID:	S9	S10
Sample No.:	117	118
Description:	Fish Lab	Between Col. 6-113 and 6-114
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/22/2011	EF - 12/22/2011
MRL:	33	33
Scope - Magnification:	Olympus BHT-BH2 - 600	Olympus BHT-BH2 - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores	1	5	33	1	5	33
Botrytis						
Cladosporium						
Hyphal Fragments	1	5	33	1	5	33
Myxo./ Periconia/ Smuts						
Rust Spore						
Unidentified Spore						
Summary Total:	2	10	66	2	10	66

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111391

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 6

Project No.: 40535.103

Reference No.:

Report Number: 111391R01

Date Received: 12/19/2011

Lab/Cor ID:	S11	S12
Sample No.:	119	120
Description:	Col. 6-110	Rm 688
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/22/2011	EF - 12/22/2011
MRL:	33	33
Scope - Magnification:	Olympus BHT-BH2 - 600	Olympus BHT-BH2 - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores	1	5	33			
Botrytis						
Cladosporium				1	5	33
Hyphal Fragments	1	5	33			
Myxo./ Periconia/ Smuts				2	10	67
Rust Spore						
Unidentified Spore	1	5	33	1	5	33
Summary Total:	3	15	99	4	20	133

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111391

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 6

Project No.: 40535.103

Reference No.:

Report Number: 111391R01

Date Received: 12/19/2011

Lab/Cor ID:	S13	S14
Sample No.:	121	122
Description:	Rm 685 N	Rm 685 S
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/22/2011	EF - 12/22/2011
MRL:	33	33
Scope - Magnification:	Olympus BHT-BH2 - 600	Olympus BHT-BH2 - 600
Notes:	No fungi observed.	

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores				2	10	67
Botrytis						
Cladosporium				1	5	33
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Rust Spore						
Unidentified Spore						
Summary Total:				3	15	100

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111391

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 6

Project No.: 40535.103

Reference No.:

Report Number: 111391R01

Date Received: 12/19/2011

Lab/Cor ID:	S15	S16
Sample No.:	123	124
Description:	Rm 677	Column 6-106
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/22/2011	EF - 12/22/2011
MRL:	33	1
Scope - Magnification:	Olympus BHT-BH2 - 600	Olympus BHT-BH2 - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores				7	35	233
Botrytis						
Cladosporium	1	5	33			
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Rust Spore				1	5	33
Unidentified Spore						
Summary Total:	1	5	33	8	40	266

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111391

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 6

Project No.: 40535.103

Reference No.:

Report Number: 111391R01

Date Received: 12/19/2011

Lab/Cor ID:	S17	S18
Sample No.:	125	126
Description:	Room 672	Chem Lab
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/22/2011	EF - 12/22/2011
MRL:	33	33
Scope - Magnification:	Olympus BHT-BH2 - 600	Olympus BHT-BH2 - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like	7	35	233			
Basidiospores	1	5	33	1	5	33
Botrytis						
Cladosporium						
Hyphal Fragments	2	10	67			
Myxo./ Periconia/ Smuts						
Rust Spore						
Unidentified Spore				1	5	33
Summary Total:	10	50	333	2	10	66

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111391

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 6

Project No.: 40535.103

Reference No.:

Report Number: 111391R01

Date Received: 12/19/2011

Lab/Cor ID:	S19	S20
Sample No.:	127	128
Description:	Room 670	Column 6-103
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/22/2011	EF - 12/22/2011
MRL:	33	33
Scope - Magnification:	Olympus BHT-BH2 - 600	Olympus BHT-BH2 - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores	1	5	33			
Aspergillus/ Penicillium-like				1	5	33
Basidiospores	2	10	67	4	20	133
Botrytis						
Cladosporium	1	5	33			
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Rust Spore						
Unidentified Spore						
Summary Total:	4	20	133	5	25	166

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111391

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 6

Project No.: 40535.103

Reference No.:

Report Number: 111391R01

Date Received: 12/19/2011

Lab/Cor ID:	S21	S22
Sample No.:	129	130
Description:	Col 6-100	Col 6-85
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/22/2011	EF - 12/22/2011
MRL:	33	33
Scope - Magnification:	Olympus BHT-BH2 - 600	Olympus BHT-BH2 - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores						
Aspergillus/ Penicillium-like						
Basidiospores	1	5	33	4	20	133
Botrytis						
Cladosporium						
Hyphal Fragments	2	10	67			
Myxo./ Periconia/ Smuts						
Rust Spore						
Unidentified Spore				1	5	33
Summary Total:	3	15	100	5	25	166

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 111391

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg Fl. 6

Project No.: 40535.103

Reference No.:

Report Number: 111391R01

Date Received: 12/19/2011

Lab/Cor ID:	S23
Sample No.:	131
Description:	Outside South
Sample Measure:	150 L
Media Type:	Fungal-AllergencoD
Analyst - Analysis Date:	EF - 12/22/2011
MRL:	33
Scope - Magnification:	Olympus BHT-BH2 - 600
Notes:	

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores	12	60	400			
Aspergillus/ Penicillium-like	1	5	33			
Basidiospores	608	3040	20267			
Botrytis	3	15	100			
Cladosporium						
Hyphal Fragments						
Myxo./ Periconia/ Smuts						
Rust Spore						
Unidentified Spore						
Summary Total:	624	3120	20800			

Reviewed by:

Eryn Fink

Eryn Fink
Analyst

* - Raw Counts per 20% of Sample

** - Total Count per Sample



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A Professional Service Corporation in the Northwest

Job Number: 120008 SEA
Client: PBS Engineering and Environmental, Inc.
Address: 2517 Eastlake Ave E
Suite 100
Seattle, WA 98102
Project Name: Natural Resources Bldg.
Project No.: 40535-103
PO Number:
Sub Project:
Reference No.:

Report Number: 120008R01
Report Date: 1/10/2012

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:
120008 - S1	132 - Outside	NV, Air, Fungal ID		1/3/2012
120008 - S2	133 - P195	NV, Air, Fungal ID		1/3/2012
120008 - S3	134 - Womens Locker Rm.	NV, Air, Fungal ID		1/3/2012
120008 - S4	135 - Mens Locker Rm.	NV, Air, Fungal ID		1/3/2012
120008 - S5	136 - Outside	NV, Air, Fungal ID		1/3/2012

Nonviable Air Air samples follow preparation and analysis techniques outlined in Method 5 of the laboratory SOP. Samples were collected using either a Zefon, Cyclex-D, or M2 Multi-Mold nonviable air sample cassette. Characteristic morphologies were observed by optical microscopy at a magnification of 600x. For each individual particle type observed, data was reported in particles per cubic meter of air (m3).

Due to various factors that influence uncertainty (media type, particle loading, staining, instrumentation and other variable aspects of the method), only the first two figures reported are considered to be significant. The area analyzed on each sample is 20%.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory did not have control over sample collection. 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,


Chandra Jeyabalan
Analyst

Nonviable Air

Job Number: 120008

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg.

Project No.: 40535-103

Reference No.:

Report Number: 120008R01

Date Received: 1/3/2012

Lab/Cor ID:	S1	S2
Sample No.:	132	133
Description:	Outside	P195
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	IH - 1/10/2012	IH - 1/10/2012
MRL:	33	33
Scope - Magnification:	Olympus BHT-BH2 - 600	Olympus BHT-BH2 - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores	43	215	1433			
Aspergillus/ Penicillium-like				7	35	233
Basidiospores	301	1505	10033	12	60	400
Botrytis	1	5	33			
Cladosporium	7	35	233			
Ganoderma				1	5	33
Hyphal Fragments				5	25	167
Myxo./ Periconia/ Smuts	1	5	33	1	5	33
Unidentified Spore				2	10	67
Summary Total:	353	1765	11765	28	140	933

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 120008

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg.

Project No.: 40535-103

Reference No.:

Report Number: 120008R01

Date Received: 1/3/2012

Lab/Cor ID:	S3	S4
Sample No.:	134	135
Description:	Womens Locker Rm.	Mens Locker Rm.
Sample Measure:	150 L	150 L
Media Type:	Fungal-AllergencoD	Fungal-AllergencoD
Analyst - Analysis Date:	IH - 1/10/2012	IH - 1/10/2012
MRL:	33	33
Scope - Magnification:	Olympus BHT-BH2 - 600	Olympus BHT-BH2 - 600
Notes:		

Fungal Identification	Raw Count*	Total Count**	Total/m³	Raw Count*	Total Count**	Total/m³
Ascospores	3	15	100	1	5	33
Aspergillus/ Penicillium-like				15	75	500
Basidiospores	7	35	233	6	30	200
Botrytis						
Cladosporium	3	15	100	20	100	667
Ganoderma				1	5	33
Hyphal Fragments	3	15	100	8	40	267
Myxo./ Periconia/ Smuts						
Unidentified Spore	1	5	33	2	10	67
Summary Total:	17	85	566	53	265	1767

* - Raw Counts per 20% of Sample

** - Total Count per Sample

Nonviable Air

Job Number: 120008

Client: PBS Engineering and Environmental, Inc.

Project Name: Natural Resources Bldg.

Project No.: 40535-103

Reference No.:

Report Number: 120008R01

Date Received: 1/3/2012

Lab/Cor ID:	S5
Sample No.:	136
Description:	Outside
Sample Measure:	150 L
Media Type:	Fungal-AllergencoD
Analyst - Analysis Date:	IH - 1/10/2012
MRL:	33
Scope - Magnification:	Olympus BHT-BH2 - 600
Notes:	

Fungal Identification	Raw Count*	Total Count**	Total/m ³	Raw Count*	Total Count**	Total/m ³
Ascospores	40	200	1333			
Aspergillus/ Penicillium-like						
Basidiospores	310	1550	10333			
Botrytis						
Cladosporium	5	25	167			
Ganoderma	3	15	100			
Hyphal Fragments						
Myxo./ Periconia/ Smuts	1	5	33			
Unidentified Spore	1	5	33			
Summary Total:	360	1800	11999			

Reviewed by:

Chandra Jeyabalan
X

Chandra Jeyabalan
Analyst

* - Raw Counts per 20% of Sample

** - Total Count per Sample

11374 pg 1 of 4

Fungal / Particulate Sample Chain of Custody Record

Lab/Cor, Inc
 7619 6th Ave NW
 Seattle, WA 98117
 Office (206) 781-0155
 Fax (206) 789-8424
 mail@labcor.net
 www.labcor.net

Client: PBS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 233 9639 Fax: _____
 Email: mark@pbsenv.com
 Other Info: _____

Analysis Type:
 Nonviable Options:
 Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis
 (Total Count)
 Qualitative Analysis
 (Relative Abundance)
 Viable Options:
 Complete Analysis
 Genera Only Stachy Only

Turnaround Time:
 6 hr RUSH*
 24 hours*
 48 hours
 3 days
 5 days
 (NV Std)
 Viable
 (7-10 days)

Project Name: Natura / Resources Bldg. Fl. Project Number: 40535.103 P.O. Number: _____

Sample #	Sample Description	Sample Information						Sampling Information				Total Volume / Area			
		Sample Type			Media Type			Sample Date	Sample Time	Sample Flow Rate			Avg		
		Air (NV)	Swab (NV)	Bulk (NV)	Dust (NV)	Tape (NV)	Stachy			Other	On			Off	Start
1	Exterior	X							12/14/11	8:21	8:31	15	15	15	150
2	1st Fl. Cafeteria - East End	X							12/14/11	8:47	9:17	15	15	15	150
3	1st Fl. Cafeteria - Center	X							12/14/11	8:50	9:02	15	15	15	150
4	1st Fl. Kitchen	X							12/14/11	9:02	9:12	15	15	15	150
5	Conf. Rm 157B	X							12/14/11	9:17	9:27	15	15	15	150
6	DNR Library - Rm 173	X							12/17/11	9:18	9:28	15	15	15	150
7	Conf. Rm 171	X							12/14/11	9:29	9:39	15	15	15	150
8.	Column # 429	X							12/14/11	9:45	9:55	15	15	15	150
9	Column 1-50	X							12/14/11	9:56	10:06	15	15	15	150
10	1st Fl. Computer Room	X							12/14/11	9:50	9:50	15	15	15	150

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 Relinquished by: Garet Murphy
 Received by: [Signature]
 Date: 12/14/11
 Time: 10:45
 * Call ahead for TATs of 24 hours or less

111374 pg 2 of 4

Fungal / Particulate Sample Chain of Custody Record

Lab/Cor, Inc
 7619 6th Ave NW
 Seattle, WA 98117
 Office (206) 781-0155
 Fax (206) 789-8424
 mail@labcor.net
 www.labcor.net

Client: PBS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 233 9639 Fax:
 Email: mark@pbsenv.com
 Other Info:

Analysis Type:
 Nonviable Options:
 Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis
 (Total Count)
 Qualitative Analysis
 (Relative Abundance)
 Viable Options:
 Complete Analysis
 Genera Only Stachy Only

Turnaround Time:
 6 hr RUSH*
 24 hours*
 48 hours
 3 days
 (NV Std)
 5 days
 Viable
 (7-10 days)

Project Name: Natural Resources Bldg. Fl. 1 Project Number: 40535.103 P.O. Number:

Sample #	Sample Description	Sample Information						Sampling Information				Total Volume / Area			
		Sample Type			Media Type			Sample Date	Sample Time	Sample Flow Rate			Avg		
		Air	Swab	Bulk	Dust	Tape	MEA			Stachy	Other			Start	End
NV	V	NV	V	NV	V	NV	On	Off	Start	End	Avg				
11	Col. 1-45	X								12/14/11	10 ⁰⁵	15	15	15	150
12	Col. 1-38	X								12/14/11	10 ²⁵	15	15	15	150
13	Col. 1-18	Y								12/14/11	10 ³⁰	15	15	15	150
14	Conf. Rm 109	X								12/14/11	10 ³⁸	15	15	15	150
15	Kitchen	X								12/14/11	10 ⁵⁰	15	15	15	150
16	outside Rm 109 in printer Area	Y								12/14/11	10 ⁵⁵	15	15	15	150
17	Col 1-4	X								12/14/11	11 ¹²	15	15	15	150
18	Col 1-6	Y								12/14/11	11 ²⁵	15	15	15	150
19	office 108	X								12/14/11	11 ³³	15	15	15	150
20	outside office 104	X								12/14/11	11 ⁴⁰	15	15	15	150

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 Hardcopy / Invoice Mailed: Reviewed By:

By signing below you are agreeing to comply with Lab/Cor's Requests, Tenders and Contracts.
 Relinquished by: Janet Murphy
 Received by: [Signature]
 Date: 12/14/11 Time: 6:45 pm
 * Call ahead for TATs of 24 hours or less

111374 pg 304

Fungal / Particulate Sample Chain of Custody Record

Lab/Cor, Inc
 7619 6th Ave NW
 Seattle, WA 98117
 Office (206) 781-0155
 Fax (206) 789-8424
 mail@labcor.net
 www.labcor.net

Client: PBS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 233 9639 Fax:
 Email: mark@pbsenv.com
 Other Info:

Analysis Type:
 Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis (Total Count)
 Qualitative Analysis (Relative Abundance)
 Viable Options:
 Complete Analysis
 Genera Only Stachy Only

Turnaround Time:
 6 hr RUSH*
 24 hours*
 48 hours
 3 days (NV Std)
 5 days
 Viable (7-10 days)

Project Name: Natural Resources Bldg Fl. 2 Project Number: 40535.103 P.O. Number: 103

Sample #	Sample Description	Sample Information						Sampling Information				Total Volume / Area		
		Sample Type			Media Type			Sample Date	Sample Time	Sample Flow			Rate	
		Swab	Bulk	Dust	MEA	Stachy	Other			On	End			Avg
21	office 212	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12/26	12:46	15	15	150						
22	office 208	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12/28	12:49	15	15	150						
23	Column 2-5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12/29	12:59	15	15	150						
24	Column 2-9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12/30	1:00	15	15	150						
25	Column 2-16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1/04	1:14	15	15	150						
26	Column 2-19	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1/10	1:20	15	15	150						
27	10ft from column 2-55 in file storage area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1/36	1:46	15	15	150						
28	Room 248	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1/44	1:54	15	15	150						
29	Column 2-43	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1/49	1:59	15	15	150						
30	Column 2-47	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2/00	2:10	15	15	150						

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 Reviewed By: _____

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Relinquished by: Scott Murphy

Received by: [Signature]

Date: 12/14/11

Time: 6:15 PM

* Call ahead for TATs of 24 hours or less

111374 pg 4 of 4

Fungal / Particulate Sample Chain of Custody Record

Lab/Cor, Inc
 7619 6th Ave NW
 Seattle, WA 98117
 Office (206) 781-0155
 Fax (206) 789-8424
 mail@labcor.net
 www.labcor.net

Client: PBS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 333 9639 Fax: _____
 Email: mark@pbsenv.com
 Other Info: _____

Analysis Type:
 Nonviable Options:
 Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis
 (Total Count)
 Qualitative Analysis
 (Relative Abundance)
 Viable Options:
 Complete Analysis
 Genera Only Stachy Only

Turnaround Time:
 ___ 6 hr RUSH*
 ___ 24 hours*
 ___ 48 hours
 ___ 3 days
 ___ (NV Std)
 5 days
 ___ Viable
 ___ (7-10 days)

Project Name: Natural Resources Bldg. Fl. 2. Project Number: 40535.103 P.O. Number: _____

Sample #	Sample Description	Sample Information						Sampling Information				Total Volume / Area			
		Sample Type			Media Type			Sample Date	Sample Time	Sample Flow Rate			Total Volume / Area		
		Air	Swab	Bulk	MEA	Stachy	Other			On	Off			Start	End
31	Col. 2-22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	212	222	15	15	15	150						
32	Col. 2-52	<input checked="" type="checkbox"/>	<input type="checkbox"/>	215	225	15	15	15	150						
33	10ft from column 2-75	<input checked="" type="checkbox"/>	<input type="checkbox"/>	230	240	15	15	15	156						
34	10ft from column 2-94	<input checked="" type="checkbox"/>	<input type="checkbox"/>	232	242	15	15	15	150						
35	10ft from column 2-90	<input checked="" type="checkbox"/>	<input type="checkbox"/>	245	255	15	15	15	150						
36	Column 2-85	<input checked="" type="checkbox"/>	<input type="checkbox"/>	254	304	15	15	15	150						
37	Column 2-88	<input checked="" type="checkbox"/>	<input type="checkbox"/>	258	308	15	15	15	150						
38	Column Break Room	<input checked="" type="checkbox"/>	<input type="checkbox"/>	313	323	15	15	15	150						
39	Outside 1st Floor S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	315	325	15	15	15	150						
	Patio Deck	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

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Relinquished by:

Garet Murphy

Received by:

[Signature]

Date: 12/14/13

Time: 6:45

* Call ahead for TATs of 24 hours or less

Py 10/4

111380

Fungal / Particulate Sample Chain of Custody Record

Lab/Cor, Inc
7619 6th Ave NW
Seattle, WA 98117
Office (206) 781-0155
Fax (206) 789-8424
mail@labcor.net
www.labcor.net

Client: PBS Engineering + Environmental
Address: 2517 Eastlake Ave E Ste 100
City, State, Zip: Seattle WA 98102
Contact: Mark Hiley
Phone: 206 233 9639 Fax:
Email: mark@pbseov.com
Other Info:

Analysis Type:
Nonviable Options:
 Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis
(Total Count)
 Qualitative Analysis
(Relative Abundance)
Viable Options:
 Complete Analysis
 Genera Only Stachy Only

Turnaround Time:
6 hr RUSH*
24 hours*
48 hours
3 days
(NV Std)
5 days
Viable
(7-10 days)
 X

Project Name: Natural Resources Bldg Fl 3 Project Number: 40535.103 P.O. Number:

Sample #	Sample Description	Sample Information										Sampling Information						
		Sample Type					Media Type					Sample Date	Sample Time	Sample Flow		Total Volume / Area		
		AP	NV	V	NV	V	MEA	Stachy	Other	Tape	Dust			Start	End		Avg	
40	Outside	X											12/15/11	8:45	15	15	15	150
41	10' from Column 3-80	X											8:30	8:40	15	15	15	150
42	@ Col 3-77	Y											8:32	8:42	15	15	15	150
43	Between Col 3-6 and 3-7	Y											8:45	8:55	15	15	15	150
44	Col. 3-10	Y											8:47	8:57	15	15	15	150
45	Col. 3-40	X											8:57	9:07	15	15	15	150
46	Col. 3-14	Y											8:58	9:08	15	15	15	150
47	Roof 353 in Hall	Y											9:09	9:19	15	15	15	150
48	Col. 3-18	Y											9:10	9:20	15	15	15	150
49	Col 3-22	X											9:21	9:31	15	15	15	150

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Relinquished by: Jane Murphy

Received by: Cherish

* Call ahead for TATs of 24 hours or less

Date: 12/16/11 Time: 7:55

111380 p92 of 4

Fungal / Particulate Sample Chain of Custody Record

Lab/Cor, Inc
 7619 6th Ave NW
 Seattle, WA 98117
 Office (206) 781-0155
 Fax (206) 789-8424
 mail@labcor.net
 www.labcor.net

Client: PBS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 233 9639 Fax:
 Email: mark@pbsenv.com
 Other Info:

Analysis Type:
 Nonviable Options:
 Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis
 (Total Count)
 Qualitative Analysis
 (Relative Abundance)
 Viable Options:
 Complete Analysis
 Genera Only Stachy Only

Turnaround Time:
 ___ 6 hr RUSH*
 ___ 24 hours*
 ___ 48 hours
 ___ 3 days
 ___ (NV Std)
 5 days
 ___ Viable
 ___ (7-10 days)

Project Name: Natural Resources Bldg. Fl. 3 Project Number: 40535.103 P.O. Number: _____

Sample #	Sample Description	Sample Information										Sampling Information							
		Air			Sample Type			Media Type				Sample Date	Sample Time	Sample Flow Rate		Total Volume / Area			
		NV	V		Swab	Bulk	Dust	Tape	MEA	Stachy	Other			On	Off		Start	End	Avg
50.	Col 3-46	X											12/15/11	9:20	9:30	15	15	15	150
51.	Col. 3-36	Y												9:33	9:43	15	15	15	150
52.	Col. 3-52	X												9:35	9:45	15	15	15	150
53.	Between Col 3-75 and 3-75	X												9:47	9:57	15	15	15	150
54.	Col. 3-94	X												9:49	9:59	15	15	15	150
55.	Col. 3-70	X												10:00	10:10	15	15	15	150
56.	Between Col 3-89 and 3-90	X												10:05	10:15	15	15	15	150
57.	Col. 3-85 and 3-84	X												10:12	10:22	15	15	15	150
58.	Col. 3-5466	X												10:19	10:29	15	15	15	150

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Hardcopy / Invoice Mailed

Reviewed By:

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Relinquished by:

Janet Murphy

Received by: Charles J. ...

Date:

12-16-11

* Call ahead for TATs of 24 hours or less

Time: 7:55

111380

Fungal / Particulate Sample Chain of Custody Record

Lab/Cor, Inc
 7619 6th Ave NW
 Seattle, WA 98117

Office (206) 781-0155
 Fax (206) 789-8424

mail@labcor.net
 www.labcor.net

Client: PGS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 233 9639 Fax: _____
 Email: mark@pksenr.com
 Other Info: _____

Analysis Type:
 Nonviable Options:
 Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis
 (Total Count)
 Qualitative Analysis
 (Relative Abundance)
 Viable Options:
 Complete Analysis
 Genera Only Starchy Only

Turnaround Time:
 6 hr RUSH*
 24 hours*
 48 hours
 3 days
 (NV Std)
 5 days
 Viable
 (7-10 days)

Project Name: Natural Resources Bldg Fl. 4 Project Number: 40535-103 P.O. Number: _____

Sample #	Sample Description	Sample Information										Sampling Information			
		Sample Type				Media Type			Sample Date	Sample Time	Sample Flow		Total Volume / Area		
		Air	Swab	Bulk	Dust	MEA	Starchy	Other			Rate	Rate			
NV	NV	NV	NV	V	V	V	Start	End	Avg						
S20	59. Between Col 4-3 and 4-4	X								12/15/11	10 ³⁰	15	15	15	150
S21	60. At Col 4-6 in Hall	Y								12/15/11	10 ⁵⁹	15	15	15	150
S22	61. Col. 4-79	Y								12/15/11	10 ⁵⁵	15	15	15	150
S23	62. Col. 4-9	Y								12/15/11	11 ²¹	15	15	15	150
S24	63. Col. 4-12	Y								12/15/11	11 ¹⁷	15	15	15	150
S25	64. Col. 4-16	Y								12/15/11	11 ²⁰	15	15	15	150
S26	65. Room 441	Y								12/15/11	11 ²¹	15	15	15	150
S27	66. Between Col 4-39 and 40	Y								12/15/11	11 ³⁰	15	15	15	150
S28	67. Col. 4-46	Y								12/15/11	12 ²³	15	15	15	150
S29	68. Col. 4-19	Y								12/15/11	12 ⁴⁵	15	15	15	150

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 Reviewed By: _____

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 Relinquished by: Janet Murphy
 Received by: Cherilyn
 Date: 10.16.11 Time: 7:55
 * Call ahead for TATs of 24 hours or less

11380

Fungal / Particulate Sample Chain of Custody Record

Analysis Type:
 Nonviable Options:
 Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis (Total Count)
 Qualitative Analysis (Relative Abundance)
 Viable Options:
 Complete Analysis
 Genera Only Starchy Only

Turnaround Time:
 6 hr RUSH*
 24 hours*
 48 hours
 3 days
 (NV Std)
 5 days
 Viable (7-10 days)

Client: PBS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 233 9639 Fax: _____
 Email: mark@pbsenv.com
 Other Info: _____

Client: PBS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 233 9639 Fax: _____
 Email: mark@pbsenv.com
 Other Info: _____

Lab/Cor, Inc
 7619 6th Ave NW
 Seattle, WA 98117
 Office (206) 781-0155
 Fax (206) 789-8424
 mail@labcor.net
 www.labcor.net

Project Name: Natural Resources Bldg Fl. 4 Project Number: 40535-103 P.O. Number: _____

Sample #	Sample Description	Sample Information										Sampling Information						
		Sample Type					Media Type					Sample Date	Sample Time	Sample Flow Rate		Total Volume / Area		
		Air	Swab	Bulk	Dust	Tape	MEA	Starchy	Other	On	Off			Start	End		Avg	
S32	69. Between Columns 4-51, 4-52	<input checked="" type="checkbox"/>											12/15/11	2:46	2:56	15	15	150
S31	70. Col 4-61												12/15/11	2:47	2:57	15	15	150
S32	71. Between Col 4-63, 4-62												12/15/11	1:00	2:00	15	15	150
S33	72. Between Col 4-95, 4-96												12/15/11	1:02	2:02	15	15	150
S34	73. Col 4-94												12/15/11	1:15	2:15	15	15	150
S35	74. Col 4-70												12/15/11	1:18	2:18	15	15	150
S36	75. Col 4-88												12/15/11	1:33	2:33	15	15	150
S37	76. Col 4-65												12/15/11	1:35	2:35	15	15	150
S38	77. Emergency operations 449												12/15/11	2:00	2:10	15	15	150
S39	78. Outside												12/15/11	2:18	2:28	15	15	150

Internal Lab Use Only:
 Prelim Released: Fax Phone E-mail Verbal
 Final Results Released: Fax Phone E-mail
 Hardcopy / Invoice Mailed: _____ Reviewed By: _____

By signing below you are agreeing to comply with Lab/Cor's Requests, Tenders and Contracts.
 Relinquished by: Janet Murphy Received by: Chadwick
 Date: 12-16-11 Time: 7:55

* Call ahead for TATs of 24 hours or less

111389

Fungal / Particulate Sample Chain of Custody Record

Lab/Cor, Inc
 7619 6th Ave NW
 Seattle, WA 98117
 Office (206) 781-0155
 Fax (206) 789-8424
 mail@labcor.net
 www.labcor.net

Client: PBS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 233 9639 Fax:
 Email: mark@pbsenv.com
 Other Info:

Analysis Type:
 Nonviable Options:
 Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis
 (Total Count)
 Qualitative Analysis
 (Relative Abundance)
 Viable Options:
 Complete Analysis
 Genera Only Stachy Only

Turnaround Time:
 6 hr RUSH*
 24 hours*
 48 hours
 3 days
 5 days
 Viable
 (7-10 days)

Project Name: Natural Resources Bldg. P1 Project Number: 40535-103 P.O. Number: _____

Sample #	Sample Description	Sample Information										Sampling Information				Total Volume / Area	
		Sample Type			Media Type		Sample Date	Sample Time		Sample Flow Rate		End	Avg				
		Air	Swab	Bulk	Dust	MBA		Stachy	Other	On	Off			Start	End		
79	Outside Bldg	<input checked="" type="checkbox"/>											2:29	2:39	15	15	150
80	Rm. P199A	<input checked="" type="checkbox"/>											2:30	2:40	15	15	150
81	Outside Rm. 199B	<input checked="" type="checkbox"/>											2:31	2:41	15	15	150
82	Rm. P199	<input checked="" type="checkbox"/>											2:40	2:50	15	15	150
83	In Hall Outside Rm P199	<input checked="" type="checkbox"/>											2:41	2:51	15	15	150
84	DNR Department of Printing	<input checked="" type="checkbox"/>											2:42	2:52	10	15	150
85	Rm P194 Print Shop	<input checked="" type="checkbox"/>											2:55	3:00	15	15	150
86	DNR Mail Center	<input checked="" type="checkbox"/>											2:58				
87	Agriculture Mail Room	<input checked="" type="checkbox"/>											3:00		15	15	150

Internal Use Only
 Prelim Release
 By: Fax Phone Email Verbal Other _____
 Hardcopy Invoice Mailed
 Review only

Received by: KNOR Date: 12/19/11 Time: 9 AM

By signing below you are agreeing to comply with Lab/Cor's Requests, Tenders and Contracts.
 Relinquished by: Janet Murphy

* Call ahead for TATs of 24 hours or less

11390 77163

Fungal / Particulate Sample Chain of Custody Record

Client: PBS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 333 9639 Fax: _____
 Email: mark@pbseov.com
 Other Info: _____

Lab/Cor, Inc
 7619 6th Ave NW
 Seattle, WA 98117
 Office (206) 781-0155
 Fax (206) 789-8424
 mail@labcor.net
 www.labcor.net

Analysis Type:
 Nonviable Options:
 Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis
 (Total Count)
 Qualitative Analysis
 (Relative Abundance)
 Viable Options:
 Complete Analysis
 Genera Only Stachy Only

Turnaround Time:
 6 hr RUSH*
 24 hours*
 48 hours
 3 days
 (NV Std)
 5 days
 Viable
 (7-10 days)

Project Name: Natural Resources Bldg. F1.5 Project Number: 40535.103 P.O. Number: _____

Sample #	Sample Description	Sample Information										Sampling Information				Total Volume / Area			
		Air		Swab		Bulk		Dust		Tape		Media Type		Sample Date	Sample Time		Sample Flow		
		V	NV	V	NV	V	NV	V	NV	V	NV	MEA	Stachy				Other	Start	End
88	outside S. Side of Bldg.	X												12/16/11	8:00	8:00	15	15	150
89	Between Col 5-117, 5-118	X													8:31	8:40	15	15	150
90	Col. 5-121	X													8:42	8:52	15	15	150
91	Col. 5-123	X													8:43	8:53	15	15	150
92	Reception Desk	X													8:55	9:05	15	15	150
93	Room 534	X													8:55	9:05	15	15	150
94	Cubical 5054	X													9:07	9:17	15	15	150
95	Cubical 5076	X													9:13	9:23	15	15	150
96	Cubical 5102	X													9:18	9:28	15	15	150
97	Room 587	X													9:18	9:28	15	15	150

Internal Lab Use Only
 Prelim Release: _____
 By: _____ Fax: _____ Phone: _____ Email: _____
 Final Results Released: _____
 Hardcopy / Invoice Mailed: _____
 Reviewed By: _____

By signing below you are agreeing to comply with Lab/Cor's Requests, Tenders and Contracts.
 Relinquished by: Janet Murphy Received by: KNOZU
 Date: 12/19/11 Time: 9 AM

* Call ahead for IATs of 24 hours or less

11390 P9273

Fungal / Particulate Sample Chain of Custody Record

Lab/Cor, Inc
 7619 6th Ave NW
 Seattle, WA 98117
 Office (206) 781-0155
 Fax (206) 789-8424
 email@labcor.net
 www.labcor.net

Client: PBS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 233 9639 Fax:
 Email: mark@pbsenv.com
 Other Info:

Analysis Type:
 Nonviable Options:
 Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis
 (Total Count)
 Qualitative Analysis
 (Relative Abundance)
 Viable Options:
 Complete Analysis
 Genera Only Stachy Only

Turnaround Time:
 6 hr RUSH*
 24 hours*
 48 hours
 3 days
 (NV Std)
 5 days
 Viable
 (7-10 days)

Project Name: Natural Resources Fl. 5 Project Number: 40535-103 P.O. Number:

Sample #	Sample Description	Sample Information						Media Type				Sampling Information				Total Volume / Area						
		Air		Swab		Bulk		Dust		Tape		MEA		Stachy			Other		Sample Date	Sample Time	Sample Flow	
		V	NV	V	NV	V	NV	V	NV	V	NV	V	NV	V	NV		Start	End			Avg	
98	Col 5-111	<input checked="" type="checkbox"/>																12/14/11	9:00-9:40	15	15	150
99	Col 5-114	<input checked="" type="checkbox"/>																	9:02-9:42	15	15	150
100	Room 583	<input checked="" type="checkbox"/>																	9:43-9:53	15	15	150
101	Reception Area	<input checked="" type="checkbox"/>																	9:44-9:54	15	15	150
102	Between 5107 and 5108	<input checked="" type="checkbox"/>																	9:56-10:06	15	15	150
103	Room 569	<input checked="" type="checkbox"/>																	9:59-10:09	15	15	150
104	Col 5-105 & Col 5-104	<input checked="" type="checkbox"/>																	10:12-10:22	15	15	150
105	Between Col 5-68 and 5-67	<input checked="" type="checkbox"/>																	10:14-10:24	15	15	150
106	Between Col 5101 and 5102	<input checked="" type="checkbox"/>																	10:24-10:34	15	15	150
107	Col 5-84	<input checked="" type="checkbox"/>																	10:37-10:47	15	15	150

Internal Lab Use Only:
 Prelim Released: Final Results Released:
 By: Fax Phone E-mail Verbal By: Fax Phone E-mail Reviewed By:

By signing below you are agreeing to comply with Lab/Cor's Requests, Tenders and Contracts.
 Relinquished by: James Murphy
 Received by: XMOB
 Date: 12/12/11
 Time: 9:40
 * Call ahead for TATs of 24 hours or less

Fungal / Particulate Sample Chain of Custody Record

111391 89173

Lab/Cor, Inc
 7619 6th Ave NW
 Seattle, WA 98117
 Office (206) 781-0155
 Fax (206) 789-8424
 mail@labcor.net
 www.labcor.net

Client: PBS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 233 9639 Fax: _____
 Email: mark@pbsonv.com
 Other Info: _____

Analysis Type:
 Nonviable Options:
 Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis
 (Total Count)
 Qualitative Analysis
 (Relative Abundance)
 Viable Options:
 Complete Analysis
 Genera Only Stachy Only

Turnaround Time:
 6 hr RUSH*
 24 hours*
 48 hours
 3 days
 (NV Std)
 5 days
 Viable
 (7-10 days)

Project Name: Natural Resources Bldg Fl.6 Project Number: 40535.103 P.O. Number: _____

Sample #	Sample Description	Sample Information										Sampling Information				Total Volume / Area				
		Air		Swab		Bulk		Dust		Tape		Media Type		Sample Date	Sample Time		Sample Flow Rate			
		V	NV	V	NV	V	NV	V	NV	V	NV	MEA	Stachy				Other	Start	End	Avg
109	Outside Break room balcony	X													12/16/11	10:36	11:06	15	15	150
110	Colvona 16-120	X													1/10	1/10	15	15	150	
111	Col. 6-117	X													1/05	1/15	15	15	150	
112	Between 1-23 and 1-24	Y													1/10	1/20	15	15	150	
113	Room 643	X													1/15	1/25	15	15	150	
114	Between 6-124 and 6-125	X													1/21	1/31	15	15	150	
115	Outside Ra 641	X													1/26	1/36	15	15	150	
116	Outside Ra 635	X													1/27	1/37	15	15	150	
117	Fish Lab	X													1/30	1/43	15	15	150	
118	Between Col. 6-113 and 6-114	Y													1/20		15	15	150	

Internal Lab Use Only
 Prelim Released
 By: _____ Date: _____
 Final Results Released
 By: _____ Date: _____
 Handcopy / Invoices / Mailer
 Reviewed By: _____

Received by: Janet Murphy Received by: KMOB
 Date: 12/19/11 Date: _____
 Time: 9 AM Time: _____

* Call ahead for IATs of 24 hours or less

11391 09 293

Fungal / Particulate Sample Chain of Custody Record

Client: PBS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 233 9639 Fax: _____
 Email: mark@pbsenv.com
 Other Info: _____

Lab/Cor, Inc
 7619 6th Ave NW
 Seattle, WA 98117
 Office (206) 781-0155
 Fax (206) 789-8424
 mail@labcor.net
 www.labcor.net

Analysis Type:
 Nonviable Options:
 Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis
 (Total Count)
 Qualitative Analysis
 (Relative Abundance)
 Viable Options:
 Complete Analysis
 Genera Only Stachy Only

Turnaround Time:
 6 hr RUSH*
 24 hours*
 48 hours
 3 days
 (N/Std)
 5 days
 Viable
 (7-10 days)

Project Name: Natural Resources Bldg Fl.6 Project Number: 40535-103 P.O. Number: _____

Sample #	Sample Description	Sample Information										Sampling Information				Total Volume / Area	
		Air		Sample Type				Media Type		Sample Date	Sample Time	Sample Flow		Rate	End		Avg
		NV	V	Swab	Bulk	Dust	Tape	MEA	Stachy			Other	Start				
119	Col. 6-110	X										12/16/11	12:40	15	15	15	150
120	Rm 688	X										12/16/11	12:40	15	15	15	150
121	Rm 685 N.	X										12/16/11	12:58	15	15	15	150
122	Rm 685 S.	X										12/16/11	12:59	15	15	15	150
123	Rm. 677	X										1/00/11	15	15	15	15	150
124	Column 6-106	X										1/29/11	15	15	15	15	150
125	Room 672	X										1/27/11	15	15	15	15	150
126	Chca Cab	X										1/30/11	15	15	15	15	150
127	Room 670	X										1/41/11	15	15	15	15	150
128	Column 6-103	X										1/42/11	15	15	15	15	150

Internal Lab Use Only
 Releasing Results: _____
 By: Fax Phone E-mail Verbal _____
 Releasing Results: _____
 By: Fax Phone E-mail Verbal _____
 Received by: Janet Murphy Date: 12/19/11 Time: 9 AM
 Received by: Mark Date: _____ Time: _____
 * Call ahead for TATs of 24 hours or less

111391 P 343

Fungal / Particulate Sample Chain of Custody Record

Analysis Type:
 Nonviable Options:
 Fungal ID _____
 Fungal & Particulate ID _____
 Particulate ID _____
 Quantitative Analysis (Total Count) _____
 Quantitative Analysis (Relative Abundance) _____
 Viable Options:
 Complete Analysis _____
 Genera Only _____
 Stacey Only _____

Turnaround Time:
 6 hr RUSH* _____
 24 hours* _____
 48 hours _____
 3 days _____
 5 days (NV Std) _____
 Viable (7-10 days) _____

Client: PBS Engineering + Environmental
 Address: 2517 Eastlake Ave E Ste 100
 City, State, Zip: Seattle WA 98102
 Contact: Mark Hiley
 Phone: 206 233 9639 Fax: _____
 Email: mark@pbsenv.com
 Other Info: _____

Lab/Cor, Inc
 7619 6th Ave NW
 Seattle, WA 98117
 Office (206) 781-0155
 Fax (206) 789-8424
 mail@labcor.net
 www.labcor.net

Project Name: Natural Resources Bldg. Fl. 6. Project Number: 40535.103 P.O. Number: _____

Sample #	Sample Description	Sample Information						Sampling Information				Total Volume / Area		
		Sample Type		Media Type		Sample Date	Sample Time	Sample Flow Rate						
		Air	Swab	Bulk	Dust			Tape	Start	End	Avg			
129	Col 6-100	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12/16/11	15	15	150							
130	Col 6-100 85	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12/16/11	15	15	150							
131	Outside South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12/16/11	15	15	150							

Internal Lab Use Only
 Results Released By: Fax Phone E-mail Verbal Final

By signing below you are agreeing to comply with Lab/Cor's Requests, Tenders and Contracts.
 Relinquished by: Jamie Murphy
 Received by: AMR
 Date: 12/19/11 Time: 9 AM

* Call ahead for TATs of 24 hours or less

120008

Fungal / Particulate Sample Chain of Custody Record

Lab/Cor, Inc
7619 6th Ave NW
Seattle, WA 98117

Office (206) 781-0155
Fax (206) 789-8424

mail@labcor.net
www.labcor.net

Client: PBS Engineering + Environmental
Address: 2517 Eastlake Ave. E., Ste 100
City, State, Zip: Seattle WA 98102

Contact: Mark Hiley
Phone: 206 233 9639 Fax: _____
Email: Mark@pbseenv.com
Other Info: _____

Analysis Type:
Nonviable Options:

Fungal ID
 Fungal & Particulate ID
 Particulate ID
 Quantitative Analysis
(Total Count)
 Qualitative Analysis
(Relative Abundance)
Viable Options:
 Complete Analysis
 Genera Only Stachy Only

Turnaround Time:

6 hr RUSH*
 24 hours*
 48 hours
 3 days
 (NV Std)
 5 days
 Viable
(7-10 days)

Project Name: Natural Resources Bldg Project Number: 40535-103

P.O. Number: _____

Sample #	Sample Description	Sample Information								Sampling Information							
		Sample Type				Media Type				Sample Date	Sample Time		Sample Flow Rate		Total Volume / Area		
		Swab	Bulk	Dust	Tape	MBA	Stachy	Other	On		Off	Start	End	Avg			
132	outside	<input checked="" type="checkbox"/> Air	<input checked="" type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV			11/3/12	103	143	15	15	150
133	P 195	<input type="checkbox"/> Air	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV				128	138	15	15	150
134	womens locker Rm.	<input type="checkbox"/> Air	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV				142	152	15	15	150
135	Mens Locker Rm.	<input type="checkbox"/> Air	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV				154	204	15	15	150
136	outside	<input type="checkbox"/> Air	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV	<input type="checkbox"/> V	<input type="checkbox"/> NV				114	124	15	15	150

S1
S2
S3
S4
S5

Internal Lab Use Only:

Prelim Released:

By: Fax Phone E-mail Verbal Phone E-mail

Final Results Released:

Hardcopy / Invoice Mailed:

Reviewed By:

By signing below you are agreeing to comply with Lab/Cor's Requests, Tenders and Contracts.

Relinquished by:

Genet Murphy

Received by:

[Signature]

Date:

1/13/12

Time:

3:30 PM

* Call ahead for TATs of 24 hours or less