

May 3, 2024

Brett Yancey
Springfield Public Schools
640 A Street
Springfield, Oregon 97477

Via email: brett.yancey@springfield.k12.or.us

Regarding: Indoor Air Quality Monitoring
Mount Vernon Elementary School
Springfield, Oregon
PBS Project 52814.000

Dear Mr. Yancey,

On April 11, 2024, PBS Engineering and Environmental LLC (PBS) performed indoor air quality testing at Mount Vernon Elementary School located in Springfield, Oregon. These services were provided at the request of the client in response to concerns about poor air quality in the building. The building was open for normal use by students and staff members during monitoring. Indoor ambient air sample locations were directed by the Springfield School District. Outdoor background sample locations were selected by PBS personnel.

As part of indoor air quality testing services, PBS visually assessed interior conditions in the test areas and collected and analyzed air samples for the presence of airborne asbestos, fungal and particulate matter, polychlorinated biphenyls (PCBs), pesticides, and herbicides.

SITE OBSERVATIONS

The areas of concern are typically furnished school spaces with broadloom carpet or tile flooring, acoustical ceiling tiles, and gypsum wallboard or concrete block walls. Upon entering the space, the overall housekeeping in the building was satisfactory, and no distinguishable settled dust or debris was observed.

PBS did not observe evidence of an active or previous water intrusion source. There were no noticeable building-related odors.

AIRBORNE PARTICULATE SAMPLING

PBS collected five airborne particulate samples using Allergenco impactor cassettes and a high-volume vacuum pump. Three samples were collected inside the school and two were collected outdoors to establish background conditions. Each sample was collected at a flow rate of 15 liters per minute for 5 minutes (75 liters) from an elevation of approximately 4 feet above ground level. The samples were submitted to NVL Laboratories, Inc. in Seattle, Washington, for fungal and nonfungal particulate identification under chain-of-custody documentation.

It should be noted that the weather during PBS' site investigation was partly cloudy on April 11, 2024, with temperatures in the mid-40s to mid-60s Fahrenheit and light winds. Table 1 summarizes the findings of this phase of the investigation.

Table 1. Air Sample Laboratory Results: Particulates

Sample	Location	Fungal Particulates (total/m³)	Predominant Types <i>*Indicates non-fungal particulate</i>	Nonfungal Particulates (total/m³)
A1-041124	Outdoor—Adjacent Boiler Room/Transformer	22,000	Ascospores, non-specified Basidiospores-like Cladosporium-like Amorphous debris* Burnt materials* Cellulose fibers*	14,012
A2-041124	Outdoor—Adjacent Room 108	19,000	Ascospores, non-specified Basidiospores-like Amorphous debris* Burnt materials* Cellulose fibers*	4,840
A3-041124	A Wing—Between A103 and A106	480	Ascospores, non-specified Basidiospores-like Amorphous debris* Burnt materials* Cellulose fibers* Skin cells*	24,386
A4-041124	B Wing—Rear end Storage Area	1,100	Ascospores, non-specified Basidiospores-like Amorphous debris* Burnt materials* Cellulose fibers* Skin cells*	129,413
A5-041124	C Wing—Between C103 and C106	720	Ascospores, non-specified Basidiospores-like Amorphous debris* Burnt materials* Cellulose fibers* Skin cells*	65,800

Total/m³ = Total count per cubic meter of air

In reviewing airborne fungal spore data, two main considerations in each sample are the total number of spores and the relative proportions of the various spore types. These two considerations are then compared for samples collected indoors and samples collected outdoors. Based upon review of the laboratory data, the total fungal particulate concentration in the indoor samples was consistently less than the fungal particulate concentration in the outdoor samples. Additionally, the types and relative proportions of the spores identified in the indoor

samples were generally similar to the types and relative proportions of the spores identified in the outdoor control samples.

It should be noted that fungal particulate air monitoring provides a “snapshot” of airborne particulates present in the test area at the time of sampling. Fungal particulate concentrations do not remain constant over time and will vary based on a number of environmental factors.

The predominant nonfungal particulate identified in the indoor samples included amorphous debris (dirt particles), burnt materials, cellulose fibers, and skin cells. Interior nonfungal particulate concentrations were found in relatively similar or somewhat greater abundance when compared to the outdoor control samples, but within typical ranges.

For more detailed information regarding the laboratory results of these analyses, please refer to the attached laboratory report.

PARTICULATE CONCLUSIONS AND RECOMMENDATIONS

PBS measured fungal and nonfungal particulate concentrations in client-selected locations at Mount Vernon Elementary School. Fungal particulate air monitoring results do not suggest a concern for elevated levels of indoor fungal particulates when compared to outdoor concentrations. The types and concentrations of indoor nonfungal particulates found in the air samples are generally consistent with those found in typical indoor building environments. Improved housekeeping, including frequent wet-wipe dusting and vacuuming with High-Efficiency Particulate Air (HEPA) filter equipped vacuum cleaners can often reduce the concentrations of airborne particulates in indoor environments.

ASBESTOS AIR SAMPLING

PBS collected three air samples using cellulose ester membrane filter cassettes and high-volume vacuum pumps. The samples were submitted to EMSL Analytical in Seattle, Washington, under chain-of-custody documentation and analyzed using transmission electron microscopy (TEM) in general accordance with Environmental Protection Agency (EPA) 40 CFR Part 763 Appendix A to Subpart E.

Table 2 summarizes the findings of this phase of the investigation.

Table 2. Air Sample Laboratory Results: Asbestos

Sample	Location	Asbestos Detected
52814.000-0003 (A3-041124)	A Wing—Between A103 and A106	None Detected
A52814.000-0004 (A4-041124)	B Wing—Rear end Storage Area	None Detected
A52814.000-0005 (A5-041124)	C Wing —Between C103 and C106	None Detected

ASBESTOS CONCLUSIONS AND RECOMMENDATIONS

PBS collected indoor air samples in three client selected locations at Mount Vernon Elementary School. No asbestos fibers were detected in any air samples collected. The results of all TEM air samples collected during this monitoring period were below the Oregon Occupational Safety and Health Administration (OSHA) permissible

exposure limit of 0.1 fibers per cubic centimeter (f/cc) of air, as well as the more stringent Oregon Department of Environmental Quality (DEQ) post-abatement clearance standard of 0.01 f/cc.

POLYCHLORINATED BIPHENYLS (PCB) SAMPLING

PBS collected three air samples from indoor locations and two samples from outdoor locations. Samples were collected and analyzed utilizing National Institute for Occupational Safety and Health (NIOSH) Method 5503, Issue 2. Sampling protocol was achieved using ultra-low-flow air sampling pumps with 50/100-milligram (mg), 13-millimeter (mm) glass fiber and sorbent tubes. All samples were run for a minimum of 7 hours at a rate of 0.1 liter per minute for a total sampling volume of 42.5 to 47.5 liters. Each sample was capped with Teflon caps and delivered to ALS Environmental in Salt Lake City, Utah, for analysis. All air samples reported airborne PCB concentrations below laboratory reporting limits.

PESTICIDE AND HERBICIDE SAMPLING

PBS collected three air samples from indoor locations and two samples from outdoor locations. Air samples were collected and analyzed utilizing NIOSH Method 5605 or 5605 Draft. Sampling protocol was achieved using ultra-low-flow air sampling pumps with 270/140 mg, 13 mm glass fiber and sorbent tubes connected to filtered SKC cassettes. All samples were run for a minimum of seven hours. Four samples were collected at a rate of 0.8 liter per minute for a total sampling volume of 340 to 380 Liters. One sample (A5-041124) experienced a significant drop in flow rate at an undetermined point during sampling. An average flow rate was determined by averaging the beginning and end flow rates, and PBS determined a sufficient volume of air, a total of 175.55 liters, was collected for analysis. Samples were delivered to ALS Environmental in Salt Lake City, Utah, for analysis. All air samples reported airborne herbicides or pesticides concentrations below laboratory reporting limits.

LIMITATIONS OF SCOPE

This study was limited to the tests and locations as indicated above. The site as a whole may have other environmental concerns that will not be characterized by this study. The findings and conclusions of this work are not scientific certainties but 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 or adjoining sites beyond those detected or observed by PBS.

PBS respectfully submits these results of our indoor air quality monitoring. Please feel free to contact me at 541.525.3746 or mason.kazer@pbsusa.com with any questions or comments.

Sincerely,

 Mason Kazer
2024.05.03
08:57:50 -07'00'

Mason Kazer
Industrial Hygienist

Attachment(s): Laboratory Analytical Reports

April 22, 2024

Cary Midwood
PBS Environmental - Eugene
3500 Chad Drive Suite 100
Eugene, OR 97408

RE: Air, Non-Viable Fungal and Particulate ID, NVL Batch # 2406608.00

Dear Mr. Midwood,

Enclosed are results for the air samples you submitted for quantitative analysis of fungal spores and material particulates.



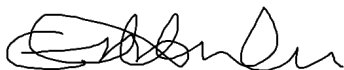
Slides from the sample cassettes were transferred to glass microscope slides, with stain if needed, and examined by light microscopy at 400x magnification. Spores were identified by characteristic colors, sizes, and shapes, with reference to authoritative texts and slides prepared from EMPAT (Environmental Microbiology Proficiency Analytical Test) cultures. Particles were identified by color and surface texture, with reference to slides of known substances, and analyst's knowledge of materials. Spores and particulates were quantified by the manufacturer's recommended protocols.

Results are expressed as 'Raw counts' (actual numbers of spores or particle types trapped in the cassette) and 'Spores or Particles per cubic meter' (corresponding concentrations in air at the testing site, at the time the sample was taken). The limit of detection (LOD) is the air concentration that would result in observation of one spore or particle by this analysis.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,



Evelyn Ahulu, Manager Environmental Microbiology/XRD

Enc.: Sample Results

Air, Fungal ID Analytical Results



Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Batch #: 2406608.00

Client Project: 52814.00 P001

Date Received: 4/15/2024

Samples Received: 5

Samples Analyzed: 5

Attention: Mr. Cary Midwood

Project Location: Mt. Vernon Elementary School

Lab Sample ID:	24041261	24041262	24041263	24041264
Client Sample ID:	A1-041124	A2-041124	A3-041124	A4-041124
Sample Location:	Outdoor- Adjacent Boiler Room/ Transformer	Outdoor-Adjacent Room 108	A Wing- Between A103 & A106	B Wing - Rear end Storage area
Volume (L):	75	75	75	75

Spore Types	Raw		Raw		Raw		Raw	
	Count	Count/m ³	Count	Count/m ³	Count	Count/m ³	Count	Count/m ³
<i>Alternaria</i> sp.								
<i>Ascospores</i> sp.	122	11712	107	10272	4	192	8	384
<i>Aspergillus/Penicillium</i> -								
<i>Basidiospores</i> sp.	99	9504	79	7584	6	288	9	432
<i>Bipolaris</i>								
<i>Chaetomium</i> sp.								
<i>Cladosporium</i> sp.	11	1056	2	192			2	96
<i>Curvularia</i>								
<i>Epicoccum</i> sp.								
<i>Ganoderma</i>	2	192						
Hyphal fragments								
<i>Myxomycetes/Periconiu</i>			1	96			2	96
<i>Nigrospora</i> sp.								
<i>Pithomyces</i> sp.								
<i>Stachybotrys</i> sp.								
<i>Torula</i> sp.								
Unspecified spores			4	384			2	96
Total: Spores	234	22000	193	19000	10	480	23	1100
Background Rating	Light		Light		Light		Moderate	

Comments: Samples A1-041124 and A2-41124 overloaded with Ascospores- Less than 8 traverses counted.

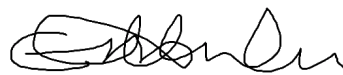
Sampled by: Client

Analyzed by: Evelyn Ahulu

Reviewed by: Evelyn Ahulu

Date:04/22/2024

Date:04/22/2024

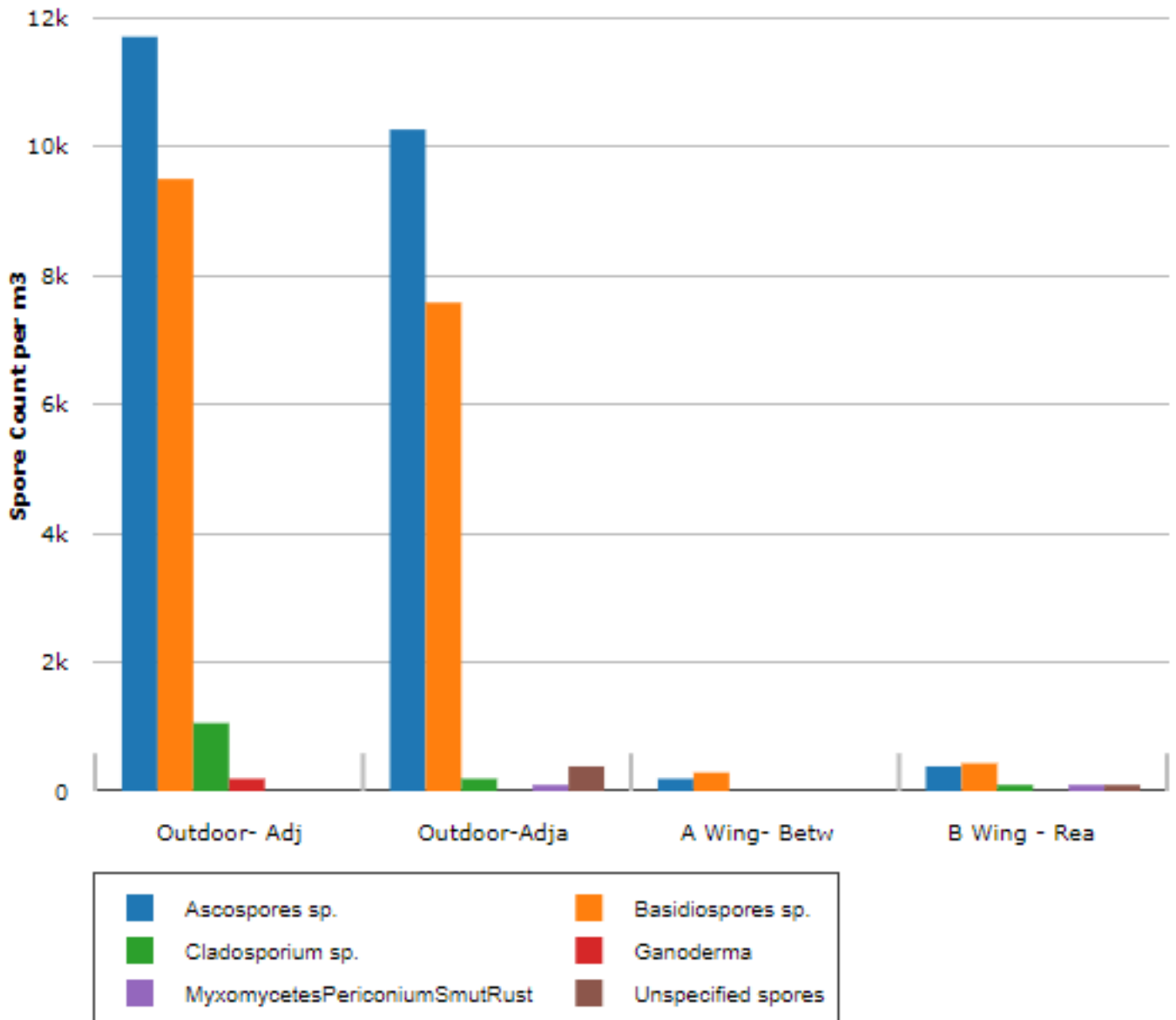

Evelyn Ahulu, Manager Environmental

Microbiology/XRD

Particle collection slides were removed from sampling cassettes and stained with lactophenol cotton blue. Spore types were identified by characteristic morphology at 400x magnification in accordance with NVL SOP 12.133. 'Raw counts' represents actual number of each spore type present in the sample, and 'spores per cubic meter' or spore concentration. Limit of detection (LOD) is the concentration that would result in the observation of one spore by this analysis. Responsibility for interpretation of these data rests with the client.

Batch #: 2406608.00
Client Project: 52814.00 P001

Mold/Spore Report:Total Count



Air, Fungal ID Analytical Results



Batch #: 2406608.00

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Client Project: 52814.00 P001

Date Received: 4/15/2024

Samples Received: 5

Samples Analyzed: 5

Attention: Mr. Cary Midwood

Project Location: Mt. Vernon Elementary School

Lab Sample ID:	24041265			
Client Sample ID:	A5-041124			
Sample Location:	C Wing - Between C103 & C106			
Volume (L):	75			

Spore Types	Raw		Raw		Raw		Raw	
	Count	Count/m ³	Count	Count/m ³	Count	Count/m ³	Count	Count/m ³
<i>Alternaria</i> sp.								
<i>Ascospores</i> sp.	8	384						
<i>Aspergillus/Penicillium</i> -								
<i>Basidiospores</i> sp.	4	192						
<i>Bipolaris</i>								
<i>Chaetomium</i> sp.								
<i>Cladosporium</i> sp.								
<i>Curvularia</i>								
<i>Epicoccum</i> sp.								
<i>Ganoderma</i>								
Hyphal fragments	1	48						
<i>Myxomycetes/Periconiu</i>								
<i>Nigrospora</i> sp.								
<i>Pithomyces</i> sp.								
<i>Stachybotrys</i> sp.								
<i>Torula</i> sp.								
Unspecified spores	2	96						
Total: Spores	15	720						
Background Rating	Light							

Comments: Samples A1-041124 and A2-41124 overloaded with Ascospores- Less than 8 traverses counted.

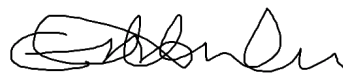
Sampled by: Client

Analyzed by: Evelyn Ahulu

Reviewed by: Evelyn Ahulu

Date:04/22/2024

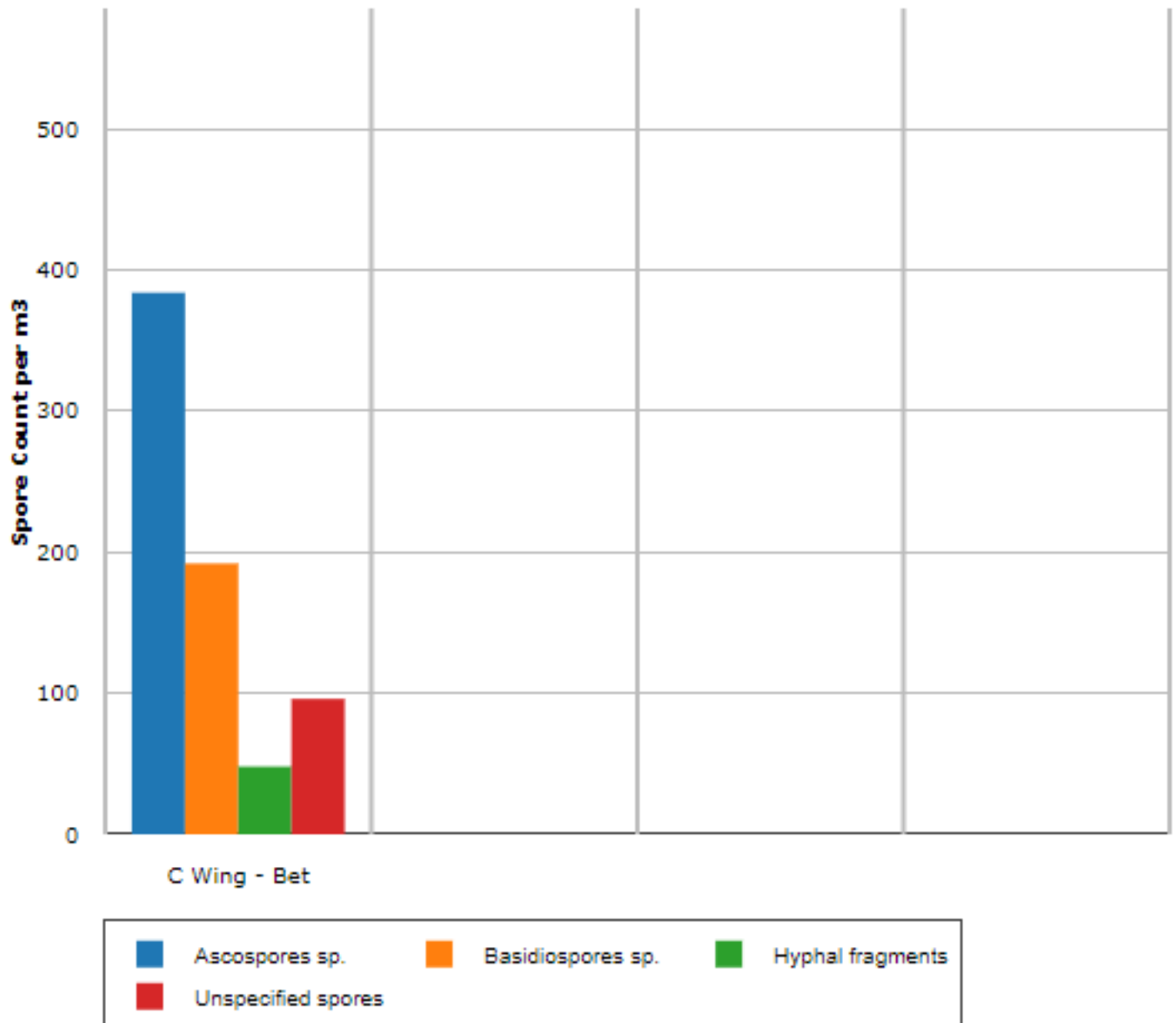
Date:04/22/2024


Evelyn Ahulu, Manager Environmental

Microbiology/XRD

Particle collection slides were removed from sampling cassettes and stained with lactophenol cotton blue. Spore types were identified by characteristic morphology at 400x magnification in accordance with NVL SOP 12.133. 'Raw counts' represents actual number of each spore type present in the sample, and 'spores per cubic meter' or spore concentration. Limit of detection (LOD) is the concentration that would result in the observation of one spore by this analysis. Responsibility for interpretation of these data rests with the client.

Mold/Spore Report:Total Count



Air, Particulate ID Analytical Results



Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Batch #: 2406608.00

Client Project: 52814.00 P001

Date Received: 4/15/2024

Samples Received: 5

Samples Analyzed: 5

Attention: Mr. Cary Midwood
Project Location: Mt. Vernon Elementary School

Lab Sample ID: Client Sample ID: Sample Location: Volume (L):	24041261	24041262	24041263	24041264				
	A1-041124	A2-041124	A3-041124	A4-041124				
	Outdoor- Adjacent Boiler Room/ Transformer	Outdoor-Adjacent Room 108	A Wing- Between A103 & A106	B Wing - Rear end Storage area				
	75	75	75	75				
Particulate Type	Raw Count	Count/m³	Raw Count	Count/m³	Raw Count	Count/m³	Raw Count	Count/m³
Algae								
Amorphous debris	242	11613	87	4173	360	17280	545	104640
Burnt materials	25	1200	9	427	23	1107	15	2880
Cellulose fibers	17	813	2	93	32	1533	15	2880
Cotton fibers								
Crystalline fragments								
Feather barbs								
Glass fibers								
Gypsum crystals								
Insect parts								
Pollen	1	53						
Skin cells	7	333	3	147	86	4133	99	19013
Starch particles					7	333		
Synthetic fibers								
Toner particles								
Total: Particulates	292	14012	101	4840	508	24386	674	129413
Background Rating	Light		Light		Light		Moderate	

Sampled by: Client

Analyzed by: Evelyn Ahulu

Reviewed by: Evelyn Ahulu

Date:04/22/2024

Date:04/22/2024

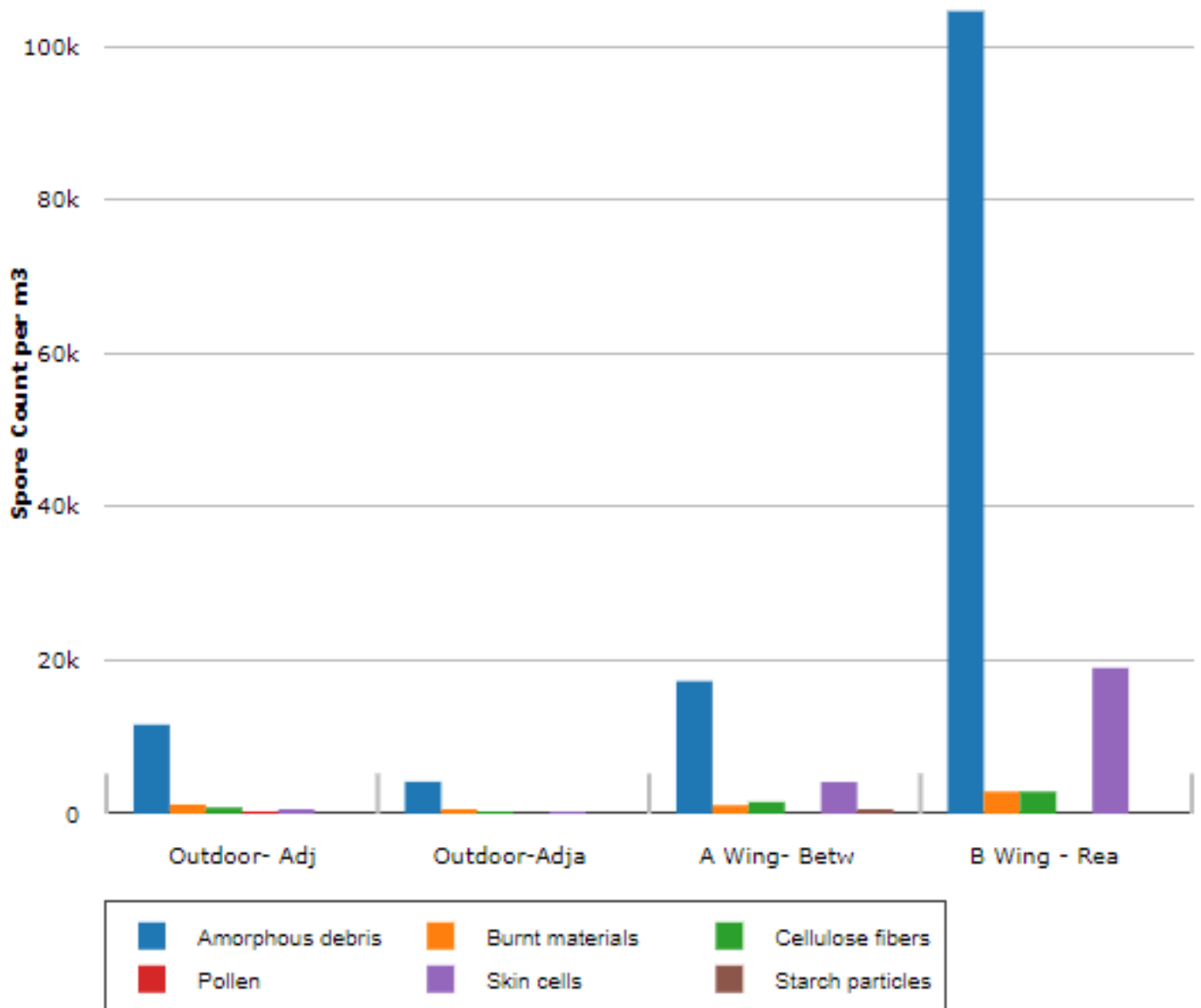
Evelyn Ahulu, Manager Environmental

Microbiology/XRD

Particle collection slides were removed from sampling cassettes and stained with lactophenol cotton blue. Particle types were identified by characteristic morphology at 300x magnification in accordance with NVL SOP 12.133. 'Raw counts' represents actual number of each particle type present in the sample, and 'counts per cubic meter' or particle concentration. Limit of detection (LOD) is the air concentration that would result in the observation of one particle by this analysis. Responsibility for interpretation of these data rests with the client.

Batch #: 2406608.00
Client Project: 52814.00 P001

Particulates Report: Total Count



Air, Particulate ID Analytical Results



Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Batch #: 2406608.00

Client Project: 52814.00 P001

Date Received: 4/15/2024

Samples Received: 5

Samples Analyzed: 5

Attention: Mr. Cary Midwood
Project Location: Mt. Vernon Elementary School

Lab Sample ID:	24041265			
Client Sample ID:	A5-041124			
Sample Location:	C Wing - Between C103 & C106			
Volume (L):	75			

Particulate Type	Raw		Raw		Raw		Raw	
	Count	Count/m ³	Count	Count/m ³	Count	Count/m ³	Count	Count/m ³
Algae								
Amorphous debris	416	53253						
Burnt materials	15	1920						
Cellulose fibers	28	3587						
Cotton fibers								
Crystalline fragments								
Feather barbs								
Glass fibers								
Gypsum crystals								
Insect parts								
Pollen	2	253						
Skin cells	53	6787						
Starch particles								
Synthetic fibers								
Toner particles								
Total: Particulates	514	65800						
Background Rating	Light							

Sampled by: Client

Analyzed by: Evelyn Ahulu

Reviewed by: Evelyn Ahulu

Date:04/22/2024

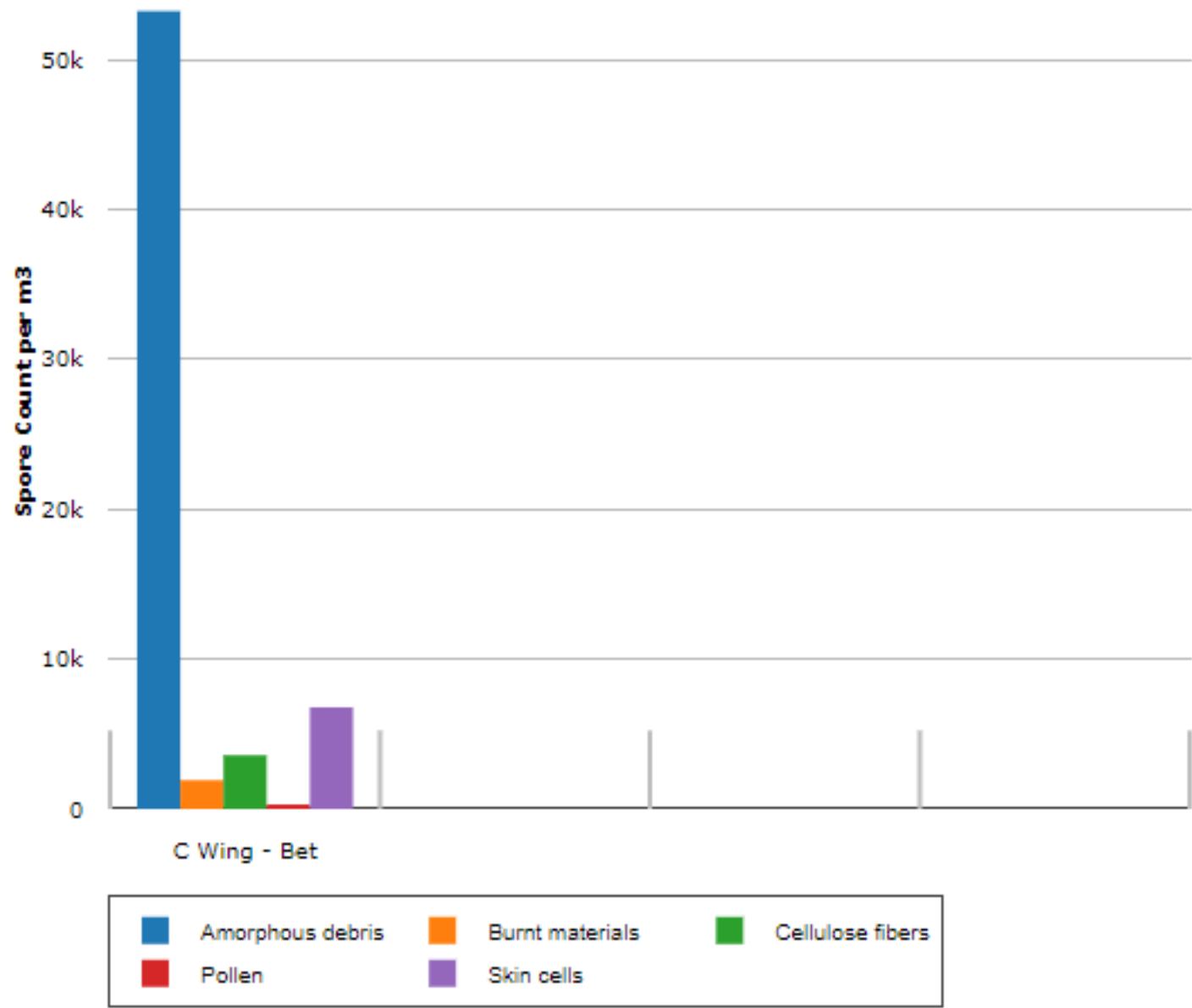
Date:04/22/2024

Evelyn Ahulu, Manager Environmental

Microbiology/XRD

Particle collection slides were removed from sampling cassettes and stained with lactophenol cotton blue. Particle types were identified by characteristic morphology at 300x magnification in accordance with NVL SOP 12.133. 'Raw counts' represents actual number of each particle type present in the sample, and 'counts per cubic meter' or particle concentration. Limit of detection (LOD) is the air concentration that would result in the observation of one particle by this analysis. Responsibility for interpretation of these data rests with the client.

Particulates Report:Total Count



MOLD/ENVIRONMENTAL MICROBIOLOGY LABORATORY SERVICES



NVL

Company PBS Environmental - Eugene Address 3500 Chad Drive Suite 100 Eugene, OR 97408 Project Manager Mr. Cary Midwood Phone (541) 686-8684	NVL Batch Number 2406608.00 TAT 5 Days AH No Rush TAT Due Date 4/22/2024 Time 9:30 AM Email cary.midwood@pbsusa.com Fax (866) 727-0140
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Project Name/Number: 52814.00 P001	Project Location: Mt. Vernon Elementary School
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Subcategory Air - Non-viable - Direct Exam

Item Code MOL-02 Mold Spore Count + Particulates <air>

Total Number of Samples 5

Rush Samples _____

	Lab ID	Sample ID	Description	A/R
1	24041261	A1-041124		A
2	24041262	A2-041124		A
3	24041263	A3-041124		A
4	24041264	A4-041124		A
5	24041265	A5-041124		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	4/15/24	930
Analyzed by	Evelyn Ahulu		NVL	4/22/24	
Results Called by					
☐ Faxed ☐ Emailed					

Special Instructions:

Date: 4/15/2024
 Time: 1:12 PM
 Entered By: Kelly AuVu



MOLD CHAIN OF CUSTODY

2406608

Turn Around

- | | | |
|------------------------------------|-----------------------------------|--|
| ☐ 4 Hours | ☐ 24 Hours | ☐ 2 Days |
| ☐ 3 Days | ☐ 4 Days | ☒ 5 Days |
| ☐ 6-10 Days | | |

Please call for TAT less than 24 Hours

Company PBS Engineering and Environmental

Project Manager Cary Midwood

Address 3500 Chad Drive, Suite 100

Cell (360) 749 - 5698

Eugene, OR 97408

Email cary.midwood@pbsusa.com

Phone 541.686.8684

Fax () -

Project Name/Number 52814.000 P001

Project Location Mt. Vernon Elementary School

• Air – Non-Viable – Direct Exam

- ☐ Mold Spore Count, Non-viable <air>
☒ Mold Spore Count + Particulates <air>

• Bulk – Non-Viable – Direct Exam

- ☐ Mold Bulk Direct Exam <bulk>
☐ Particulates ID <tape/wipe>

• Air – Viable

- ☐ Mold Air Viable (ID and quantitation of culturable fungi) <air>
☐ Mold Bulk Viable (Quantitative) <bulk, dust, swab>

Reporting Instructions

☐ Call () - ☐ Fax () - ☒ Email cary.midwood@pbsusa.com; mason.kazer@pbsusa.com

Total Number of Samples 5

	Sample ID	Serial #	Description	Start	Stop	Flow	Volume	A/R
1	A1-041124	5649517	Outdoor - Adjacent Boiler Room/Transformer	09:05	09:10	15 LPM	75L	
2	A2-041124	5649538	Outdoor - Adjacent Room 108	08:56	09:01	15 LPM	75L	
3	A3-041124	5649493	A Wing - Between A103 & A106	08:27	08:32	15 LPM	75L	
4	A4-041124	5649487	B-Wing - Rear End Storage Area	08:37	08:42	15 LPM	75L	
5	A5-041124	5649477	C-Wing - Between C103 & C106	08:46	08:51	15 LPM	75L	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

	Print Name	Signature	Company	Date	Time
Sampled by	Mason Kazer		PBS	04/11/24	09:10
Relinquish by	Mason Kazer		PBS	04/12/24	13:30

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	<u>Kersten</u>	<u>e</u>	<u>NVL</u>	<u>4.15.24</u>	<u>9:20</u>
Analyzed by					
Called by					
Faxed/Email by					



EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / sanleandrolab@emsl.com

EMSL Order: 092407128

Customer ID: PBSE30

Customer PO: 52814.000

Project ID:

Attention: Cary Midwood
PBS Engineering & Environmental, Inc.
3500 Chad Drive
Suite 100
Eugene, OR 97408

Phone: (541) 686-8684

Fax: (541) 686-4602

Received Date: 04/13/2024 09:00 AM

Analysis Date: 04/16/2024

Collected Date:

Project: 52814.000 - PHASE 0001 - MT VERNON ES - MT VERNON ELEMENTARY AIR SAMPLING

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5μ	≥5μ		(S/mm ²)	(S/cc)
A52814.000-0003 092407128-0001	AMBIENT AIR-TEM	2726.00	0.0504	0	None Detected	0	0	0.0028	<20.00	<0.0028
A52814.000-0004 092407128-0002	AMBIENT AIR-TEM	2720.00	0.0504	0	None Detected	0	0	0.0028	<20.00	<0.0028
A52814.000-0005 092407128-0003	AMBIENT AIR-TEM	2651.00	0.0504	0	None Detected	0	0	0.0029	<20.00	<0.0029

Analyst(s)

Van (Rebecca) Huynh (3)

Oscar Merino, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in structures/cm³ are not covered by the laboratory's NVLAP accreditation. Measurement of uncertainty available upon request.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from: 04/19/2024 17:28 PM



TRANSMITTAL AND CHAIN OF CUSTODY FOR AIR TEM SAMPLES

Project No.: 52814.000 Phase 0001 Mt. VERNON ES

Project Site: Mt Vernon Elementary Air Sampling

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: April 12, 2024

PBS Engineering and Environmental Inc.

3500 Chad Drive, Suite 100

Eugene, OR 97408

541.686.8684, Fax: 866.727.0140

MASON KAZER

Name

[Signature] 04/12/24 13:30
Authorized Signature Date Time

RECEIVER

Date Received: _____

Company: EMSL Laboratory

Address: 464 McCormick Street
San Leandro, CA 94577
(510)895-3675

RU FX
Name

[Signature] 4/13/24 9:00AM
Authorized Signature Date Time

Sender's ID No.	Brief Description	Receiver's ID No.	Air Volume
A52814.000-0003	Ambient Air-TEM	_____	2726 L
A52814.000-0004	Ambient Air-TEM	_____	2720 L
A52814.000-0005	Ambient Air-TEM	_____	2651 L

Please analyze the attached 3 air sample(s), as listed on this form, for asbestos using Transmission Electron Microscopy, in accordance with A.H.E.R.A., CFR 40, Part 763, Appendix A to Subpart E, protocol, or the most recent version thereof.

Please archive any remaining sample components for a minimum of thirty days after analysis date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED:

1 Week

SPECIAL INSTRUCTIONS: PLEASE SEND TO: MASON.KAZER@PBSUSA.COM
CARY, MIDWOOD



ANALYTICAL REPORT

Report Date: May 02, 2024

Cary Midwood
PBS Environmental
3500 Chad Dr., Suite 100
Eugene, OR 97408

E-mail: cary.midwood@pbsusa.com

Workorder: **34-2410650**

Client Project ID: Mt Vernon Elementary School
Purchase Order: NA
Project Manager: Stella Hanis

Analytical Results

Sample ID: A1-041124		Collected: 04/11/2024		
Lab ID: 2410650001		Received: 04/12/2024		
Sampling Location: Mt Vernon Elementary				
Method: NIOSH 5605 Draft by GC-ECD		Media: SKC 226-58, Sorbent Tube, XAD-2 OVS, Quartz Filter	Instrument: GCE21	
Dilution: 1	Sampling Parameter: Air Volume 380 L		Analyzed: 04/18/2024 (316761)	
Analyte	Result (ug/sample)	Result (mg/m³)	Result (ppm)	RL (ug/sample)
alpha-BHC	<0.0020	<0.0000053	<0.00000044	0.0020
gamma-BHC	<0.0020	<0.0000053	<0.00000044	0.0020
beta-BHC	<0.0020	<0.0000053	<0.00000044	0.0020
delta-BHC	<0.0020	<0.0000053	<0.00000044	0.0020
Heptachlor	<0.0020	<0.0000053	<0.00000034	0.0020
Aldrin	<0.0020	<0.0000053	<0.00000035	0.0020
Heptachlor epoxide	<0.0020	<0.0000053	<0.00000033	0.0020
gamma-Chlordane	<0.0020	<0.0000053	<0.00000031	0.0020
alpha-Chlordane	<0.0020	<0.0000053	<0.00000031	0.0020
Endosulfan-I	<0.0020	<0.0000053	<0.00000032	0.0020
4,4'-DDE	<0.0020	<0.0000053	<0.00000040	0.0020
Dieldrin	<0.0020	<0.0000053	<0.00000034	0.0020
Endrin	<0.0020	<0.0000053	<0.00000034	0.0020
4,4'-DDD	<0.0020	<0.0000053	<0.00000040	0.0020
Endosulfan-II	<0.0020	<0.0000053	<0.00000032	0.0020
4,4'-DDT	<0.0020	<0.0000053	<0.00000036	0.0020
Endrin aldehyde	<0.0020	<0.0000053	<0.00000034	0.0020
Endosulfan sulfate	<0.0020	<0.0000053	<0.00000030	0.0020
Methoxychlor	<0.0020	<0.0000053	<0.00000037	0.0020
Endrin ketone	<0.0020	<0.0000053	<0.00000034	0.0020
Chlordane (Technical)	<0.020	<0.000053	<0.00000031	0.020
Toxaphene	<0.10	<0.00026	NA	0.10

ADDRESS 960 West LeVoy Drive, Salt Lake City, Utah, 84123 USA | PHONE +1 801 266 7700 | FAX +1 801 268 9992 | WEB <http://www.alsglobal.com/slt>
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ANALYTICAL REPORT

Workorder: **34-2410650**

Client Project ID: Mt Vernon Elementary School

Purchase Order: NA

Project Manager: Stella Hanis

Analytical Results

Sample ID: A2-041124		Collected: 04/11/2024		
Lab ID: 2410650002		Received: 04/12/2024		
Sampling Location: Mt Vernon Elementary				
Method: NIOSH 5605 Draft by GC-ECD		Media: SKC 226-58, Sorbent Tube, XAD-2 OVS, Quartz Filter	Instrument: GCE21	
Dilution: 1	Sampling Parameter: Air Volume 369.6 L	Analyzed: 04/18/2024 (316761)		
Analyte	Result (ug/sample)	Result (mg/m³)	Result (ppm)	RL (ug/sample)
alpha-BHC	<0.0020	<0.0000054	<0.00000045	0.0020
gamma-BHC	<0.0020	<0.0000054	<0.00000045	0.0020
beta-BHC	<0.0020	<0.0000054	<0.00000045	0.0020
delta-BHC	<0.0020	<0.0000054	<0.00000045	0.0020
Heptachlor	<0.0020	<0.0000054	<0.00000035	0.0020
Aldrin	<0.0020	<0.0000054	<0.00000036	0.0020
Heptachlor epoxide	<0.0020	<0.0000054	<0.00000034	0.0020
gamma-Chlordane	<0.0020	<0.0000054	<0.00000032	0.0020
alpha-Chlordane	<0.0020	<0.0000054	<0.00000032	0.0020
Endosulfan-I	<0.0020	<0.0000054	<0.00000033	0.0020
4,4'-DDE	<0.0020	<0.0000054	<0.00000042	0.0020
Dieldrin	<0.0020	<0.0000054	<0.00000035	0.0020
Endrin	<0.0020	<0.0000054	<0.00000035	0.0020
4,4'-DDD	<0.0020	<0.0000054	<0.00000041	0.0020
Endosulfan-II	<0.0020	<0.0000054	<0.00000033	0.0020
4,4'-DDT	<0.0020	<0.0000054	<0.00000037	0.0020
Endrin aldehyde	<0.0020	<0.0000054	<0.00000035	0.0020
Endosulfan sulfate	<0.0020	<0.0000054	<0.00000031	0.0020
Methoxychlor	<0.0020	<0.0000054	<0.00000038	0.0020
Endrin ketone	<0.0020	<0.0000054	<0.00000035	0.0020
Chlordane (Technical)	<0.020	<0.000054	<0.00000032	0.020
Toxaphene	<0.10	<0.00027	NA	0.10

Sample ID: A3-041124		Collected: 04/11/2024		
Lab ID: 2410650003		Received: 04/12/2024		
Sampling Location: Mt Vernon Elementary				
Method: NIOSH 5605 Draft by GC-ECD		Media: SKC 226-58, Sorbent Tube, XAD-2 OVS, Quartz Filter	Instrument: GCE21	
Dilution: 1	Sampling Parameter: Air Volume 350.4 L		Analyzed: 04/18/2024 (316761)	
Analyte	Result (ug/sample)	Result (mg/m³)	Result (ppm)	RL (ug/sample)
alpha-BHC	<0.0020	<0.0000057	<0.00000048	0.0020
gamma-BHC	<0.0020	<0.0000057	<0.00000048	0.0020
beta-BHC	<0.0020	<0.0000057	<0.00000048	0.0020
delta-BHC	<0.0020	<0.0000057	<0.00000048	0.0020
Heptachlor	<0.0020	<0.0000057	<0.00000037	0.0020
Aldrin	<0.0020	<0.0000057	<0.00000038	0.0020
Heptachlor epoxide	<0.0020	<0.0000057	<0.00000036	0.0020
gamma-Chlordane	<0.0020	<0.0000057	<0.00000034	0.0020

Results Continued on Next Page



ANALYTICAL REPORT

Workorder: **34-2410650**

Client Project ID: Mt Vernon Elementary School

Purchase Order: NA

Project Manager: Stella Hanis

Analytical Results

Sample ID: A3-041124		Collected: 04/11/2024		
Lab ID: 2410650003		Received: 04/12/2024		
Sampling Location: Mt Vernon Elementary				
Method: NIOSH 5605 Draft by GC-ECD		Media: SKC 226-58, Sorbent Tube, XAD-2 OVS, Quartz Filter	Instrument: GCE21	
Dilution: 1	Sampling Parameter: Air Volume 350.4 L		Analyzed: 04/18/2024 (316761)	
Analyte	Result (ug/sample)	Result (mg/m³)	Result (ppm)	RL (ug/sample)
alpha-Chlordane	<0.0020	<0.0000057	<0.00000034	0.0020
Endosulfan-I	<0.0020	<0.0000057	<0.00000034	0.0020
4,4'-DDE	<0.0020	<0.0000057	<0.00000044	0.0020
Dieldrin	<0.0020	<0.0000057	<0.00000037	0.0020
Endrin	<0.0020	<0.0000057	<0.00000037	0.0020
4,4'-DDD	<0.0020	<0.0000057	<0.00000044	0.0020
Endosulfan-II	<0.0020	<0.0000057	<0.00000034	0.0020
4,4'-DDT	<0.0020	<0.0000057	<0.00000039	0.0020
Endrin aldehyde	<0.0020	<0.0000057	<0.00000036	0.0020
Endosulfan sulfate	<0.0020	<0.0000057	<0.00000033	0.0020
Methoxychlor	<0.0020	<0.0000057	<0.00000040	0.0020
Endrin ketone	<0.0020	<0.0000057	<0.00000037	0.0020
Chlordane (Technical)	<0.020	<0.000057	<0.00000034	0.020
Toxaphene	<0.10	<0.00029	NA	0.10

Sample ID: A4-041124		Collected: 04/11/2024		
Lab ID: 2410650004		Received: 04/12/2024		
Sampling Location: Mt Vernon Elementary				
Method: NIOSH 5605 Draft by GC-ECD		Media: SKC 226-58, Sorbent Tube, XAD-2 OVS, Quartz Filter	Instrument: GCE21	
Dilution: 1	Sampling Parameter: Air Volume 340 L		Analyzed: 04/18/2024 (316761)	
Analyte	Result (ug/sample)	Result (mg/m³)	Result (ppm)	RL (ug/sample)
alpha-BHC	<0.0020	<0.0000059	<0.00000049	0.0020
gamma-BHC	<0.0020	<0.0000059	<0.00000049	0.0020
beta-BHC	<0.0020	<0.0000059	<0.00000049	0.0020
delta-BHC	<0.0020	<0.0000059	<0.00000049	0.0020
Heptachlor	<0.0020	<0.0000059	<0.00000039	0.0020
Aldrin	<0.0020	<0.0000059	<0.00000039	0.0020
Heptachlor epoxide	<0.0020	<0.0000059	<0.00000037	0.0020
gamma-Chlordane	<0.0020	<0.0000059	<0.00000035	0.0020
alpha-Chlordane	<0.0020	<0.0000059	<0.00000035	0.0020
Endosulfan-I	<0.0020	<0.0000059	<0.00000035	0.0020
4,4'-DDE	<0.0020	<0.0000059	<0.00000045	0.0020
Dieldrin	<0.0020	<0.0000059	<0.00000038	0.0020
Endrin	<0.0020	<0.0000059	<0.00000038	0.0020
4,4'-DDD	<0.0020	<0.0000059	<0.00000045	0.0020
Endosulfan-II	<0.0020	<0.0000059	<0.00000035	0.0020
4,4'-DDT	<0.0020	<0.0000059	<0.00000041	0.0020

Results Continued on Next Page



ANALYTICAL REPORT

Workorder: **34-2410650**

Client Project ID: Mt Vernon Elementary School

Purchase Order: NA

Project Manager: Stella Hanis

Analytical Results

Sample ID: A4-041124		Collected: 04/11/2024		
Lab ID: 2410650004		Received: 04/12/2024		
Sampling Location: Mt Vernon Elementary				
Method: NIOSH 5605 Draft by GC-ECD		Media: SKC 226-58, Sorbent Tube, XAD-2 OVS, Quartz Filter	Instrument: GCE21	
Dilution: 1	Sampling Parameter: Air Volume 340 L	Analyzed: 04/18/2024 (316761)		
Analyte	Result (ug/sample)	Result (mg/m³)	Result (ppm)	RL (ug/sample)
Endrin aldehyde	<0.0020	<0.0000059	<0.00000038	0.0020
Endosulfan sulfate	<0.0020	<0.0000059	<0.00000034	0.0020
Methoxychlor	<0.0020	<0.0000059	<0.00000042	0.0020
Endrin ketone	<0.0020	<0.0000059	<0.00000038	0.0020
Chlordane (Technical)	<0.020	<0.000059	<0.0000035	0.020
Toxaphene	<0.10	<0.00029	NA	0.10

Sample ID: A5-041124		Collected: 04/11/2024		
Lab ID: 2410650005		Received: 04/12/2024		
Sampling Location: Mt Vernon Elementary				
Method: NIOSH 5605 Draft by GC-ECD		Media: SKC 226-58, Sorbent Tube, XAD-2 OVS, Quartz Filter	Instrument: GCE21	
Dilution: 1	Sampling Parameter: Air Volume 175.5 L	Analyzed: 04/18/2024 (316761)		
Analyte	Result (ug/sample)	Result (mg/m³)	Result (ppm)	RL (ug/sample)
alpha-BHC	<0.0020	<0.000011	<0.00000096	0.0020
gamma-BHC	<0.0020	<0.000011	<0.00000096	0.0020
beta-BHC	<0.0020	<0.000011	<0.00000096	0.0020
delta-BHC	<0.0020	<0.000011	<0.00000096	0.0020
Heptachlor	<0.0020	<0.000011	<0.00000075	0.0020
Aldrin	<0.0020	<0.000011	<0.00000076	0.0020
Heptachlor epoxide	<0.0020	<0.000011	<0.00000072	0.0020
gamma-Chlordane	<0.0020	<0.000011	<0.00000068	0.0020
alpha-Chlordane	<0.0020	<0.000011	<0.00000068	0.0020
Endosulfan-I	<0.0020	<0.000011	<0.00000068	0.0020
4,4'-DDE	<0.0020	<0.000011	<0.00000088	0.0020
Dieldrin	<0.0020	<0.000011	<0.00000073	0.0020
Endrin	<0.0020	<0.000011	<0.00000073	0.0020
4,4'-DDD	<0.0020	<0.000011	<0.00000087	0.0020
Endosulfan-II	<0.0020	<0.000011	<0.00000068	0.0020
4,4'-DDT	<0.0020	<0.000011	<0.00000079	0.0020
Endrin aldehyde	<0.0020	<0.000011	<0.00000073	0.0020
Endosulfan sulfate	<0.0020	<0.000011	<0.00000066	0.0020
Methoxychlor	<0.0020	<0.000011	<0.00000081	0.0020
Endrin ketone	<0.0020	<0.000011	<0.00000073	0.0020
Chlordane (Technical)	<0.020	<0.00011	<0.0000068	0.020
Toxaphene	<0.10	<0.00057	NA	0.10



ANALYTICAL REPORT

Workorder: **34-2410650**

Client Project ID: Mt Vernon Elementary School

Purchase Order: NA

Project Manager: Stella Hanis

Analytical Results

Sample ID: A1-041124		Collected: 04/11/2024	
Lab ID: 2410650006		Received: 04/12/2024	
Sampling Location: Mt Vernon Elementary			
Method: NIOSH 5605 Draft, Acid Herb.		Media: SKC 226-66	Instrument: 5975-D
Dilution: 1		Sampling Parameter: Air Volume 380 L	Analyzed: 05/01/2024 (316701)
Analyte	Result (ug/sample)	Result (mg/m ³)	RL (ug/sample)
2,4,5-T	<0.030	<0.000079	0.030
2,4-D	<0.030	<0.000079	0.030
2,4-DB	<0.030	<0.000079	0.030
Acifluorfen	<0.030	<0.000079	0.030
Dicamba	<0.030	<0.000079	0.030
Dichlorprop	<0.030	<0.000079	0.030
Dinoseb	<0.030	<0.000079	0.030
MCPA	<1.0	<0.0026	1.0
MCP	<1.0	<0.0026	1.0
Pentachlorophenol	<0.030	<0.000079	0.030
Picloram	<0.030	<0.000079	0.030
2,4,5-TP(Silvex)	<0.030	<0.000079	0.030
Chloramben	<0.030	<0.000079	0.030
Dacthal	<0.030	<0.000079	0.030

Sample ID: A2-041124		Collected: 04/11/2024	
Lab ID: 2410650007		Received: 04/12/2024	
Sampling Location: Mt Vernon Elementary			
Method: NIOSH 5605 Draft, Acid Herb.		Media: SKC 226-66	Instrument: 5975-D
Dilution: 1		Sampling Parameter: Air Volume 369.6 L	Analyzed: 05/01/2024 (316701)
Analyte	Result (ug/sample)	Result (mg/m ³)	RL (ug/sample)
2,4,5-T	<0.030	<0.000081	0.030
2,4-D	<0.030	<0.000081	0.030
2,4-DB	<0.030	<0.000081	0.030
Acifluorfen	<0.030	<0.000081	0.030
Dicamba	<0.030	<0.000081	0.030
Dichlorprop	<0.030	<0.000081	0.030
Dinoseb	<0.030	<0.000081	0.030
MCPA	<1.0	<0.0027	1.0
MCP	<1.0	<0.0027	1.0
Pentachlorophenol	<0.030	<0.000081	0.030
Picloram	<0.030	<0.000081	0.030
2,4,5-TP(Silvex)	<0.030	<0.000081	0.030
Chloramben	<0.030	<0.000081	0.030
Dacthal	<0.030	<0.000081	0.030



ANALYTICAL REPORT

Workorder: **34-2410650**

Client Project ID: Mt Vernon Elementary School

Purchase Order: NA

Project Manager: Stella Hanis

Analytical Results

Sample ID: A3-041124		Collected: 04/11/2024	
Lab ID: 2410650008		Received: 04/12/2024	
Sampling Location: Mt Vernon Elementary			
Method: NIOSH 5605 Draft, Acid Herb.		Media: SKC 226-66	Instrument: 5975-D
Dilution: 1		Sampling Parameter: Air Volume 350.4 L	Analyzed: 05/01/2024 (316701)
Analyte	Result (ug/sample)	Result (mg/m ³)	RL (ug/sample)
2,4,5-T	<0.030	<0.000086	0.030
2,4-D	<0.030	<0.000086	0.030
2,4-DB	<0.030	<0.000086	0.030
Acifluorfen	<0.030	<0.000086	0.030
Dicamba	<0.030	<0.000086	0.030
Dichlorprop	<0.030	<0.000086	0.030
Dinoseb	<0.030	<0.000086	0.030
MCPA	<1.0	<0.0029	1.0
MCPP	<1.0	<0.0029	1.0
Pentachlorophenol	<0.030	<0.000086	0.030
Picloram	<0.030	<0.000086	0.030
2,4,5-TP(Silvex)	<0.030	<0.000086	0.030
Chloramben	<0.030	<0.000086	0.030
Dacthal	<0.030	<0.000086	0.030

Sample ID: A4-041124		Collected: 04/11/2024	
Lab ID: 2410650009		Received: 04/12/2024	
Sampling Location: Mt Vernon Elementary			
Method: NIOSH 5605 Draft, Acid Herb.		Media: SKC 226-66	Instrument: 5975-D
Dilution: 1		Sampling Parameter: Air Volume 340 L	Analyzed: 05/01/2024 (316701)
Analyte	Result (ug/sample)	Result (mg/m ³)	RL (ug/sample)
2,4,5-T	<0.030	<0.000088	0.030
2,4-D	<0.030	<0.000088	0.030
2,4-DB	<0.030	<0.000088	0.030
Acifluorfen	<0.030	<0.000088	0.030
Dicamba	<0.030	<0.000088	0.030
Dichlorprop	<0.030	<0.000088	0.030
Dinoseb	<0.030	<0.000088	0.030
MCPA	<1.0	<0.0029	1.0
MCPP	<1.0	<0.0029	1.0
Pentachlorophenol	<0.030	<0.000088	0.030
Picloram	<0.030	<0.000088	0.030
2,4,5-TP(Silvex)	<0.030	<0.000088	0.030
Chloramben	<0.030	<0.000088	0.030
Dacthal	<0.030	<0.000088	0.030



ANALYTICAL REPORT

Workorder: **34-2410650**

Client Project ID: Mt Vernon Elementary School

Purchase Order: NA

Project Manager: Stella Hanis

Analytical Results

Sample ID: A5-041124		Collected: 04/11/2024	
Lab ID: 2410650010		Received: 04/12/2024	
Sampling Location: Mt Vernon Elementary			
Method: NIOSH 5605 Draft, Acid Herb.		Media: SKC 226-66	Instrument: 5975-D
Dilution: 1		Sampling Parameter: Air Volume 175.5 L	Analyzed: 05/01/2024 (316701)
Analyte	Result (ug/sample)	Result (mg/m ³)	RL (ug/sample)
2,4,5-T	<0.030	<0.00017	0.030
2,4-D	<0.030	<0.00017	0.030
2,4-DB	<0.030	<0.00017	0.030
Acifluorfen	<0.030	<0.00017	0.030
Dicamba	<0.030	<0.00017	0.030
Dichlorprop	<0.030	<0.00017	0.030
Dinoseb	<0.030	<0.00017	0.030
MCPA	<1.0	<0.0057	1.0
MCPP	<1.0	<0.0057	1.0
Pentachlorophenol	<0.030	<0.00017	0.030
Picloram	<0.030	<0.00017	0.030
2,4,5-TP(Silvex)	<0.030	<0.00017	0.030
Chloramben	<0.030	<0.00017	0.030
Dacthal	<0.030	<0.00017	0.030

Sample ID: A1-041124		Collected: 04/11/2024	
Lab ID: 2410650011		Received: 04/12/2024	
Sampling Location: Mt Vernon Elementary			
Method: NIOSH 5503		Media: Filter/Tube	Instrument: GCE03
Dilution: 1		Sampling Parameter: Air Volume 47.5 L	Analyzed: 04/16/2024 (316700)
Analyte	Result (ug/sample)	Result (mg/m ³)	RL (ug/sample)
Aroclor 1016	<0.010	<0.00021	0.010
Aroclor 1260	<0.010	<0.00021	0.010
Aroclor 1221	<0.020	<0.00042	0.020
Aroclor 1232	<0.010	<0.00021	0.010
Aroclor 1242	<0.010	<0.00021	0.010
Aroclor 1248	<0.010	<0.00021	0.010
Aroclor 1254	<0.010	<0.00021	0.010
Aroclor 1262	<0.010	<0.00021	0.010
Aroclor 1268	<0.010	<0.00021	0.010

Sample ID: A2-041124		Collected: 04/11/2024	
Lab ID: 2410650012		Received: 04/12/2024	
Sampling Location: Mt Vernon Elementary			
Method: NIOSH 5503		Media: Filter/Tube	Instrument: GCE03
Dilution: 1		Sampling Parameter: Air Volume 46.2 L	Analyzed: 04/16/2024 (316700)
Analyte	Result (ug/sample)	Result (mg/m ³)	RL (ug/sample)
Aroclor 1016	<0.010	<0.00022	0.010

Results Continued on Next Page



ANALYTICAL REPORT

Workorder: **34-2410650**

Client Project ID: Mt Vernon Elementary School

Purchase Order: NA

Project Manager: Stella Hanis

Analytical Results

Sample ID: A2-041124		Collected: 04/11/2024	
Lab ID: 2410650012		Received: 04/12/2024	
Sampling Location: Mt Vernon Elementary			
Method: NIOSH 5503	Media: Filter/Tube	Instrument: GCE03	
Dilution: 1	Sampling Parameter: Air Volume 46.2 L	Analyzed: 04/16/2024 (316700)	
Analyte	Result (ug/sample)	Result (mg/m ³)	RL (ug/sample)
Aroclor 1260	<0.010	<0.00022	0.010
Aroclor 1221	<0.020	<0.00043	0.020
Aroclor 1232	<0.010	<0.00022	0.010
Aroclor 1242	<0.010	<0.00022	0.010
Aroclor 1248	<0.010	<0.00022	0.010
Aroclor 1254	<0.010	<0.00022	0.010
Aroclor 1262	<0.010	<0.00022	0.010
Aroclor 1268	<0.010	<0.00022	0.010

Sample ID: A3-041124		Collected: 04/11/2024	
Lab ID: 2410650013		Received: 04/12/2024	
Sampling Location: Mt Vernon Elementary			
Method: NIOSH 5503	Media: Filter/Tube	Instrument: GCE03	
Dilution: 1	Sampling Parameter: Air Volume 43.8 L	Analyzed: 04/16/2024 (316700)	
Analyte	Result (ug/sample)	Result (mg/m ³)	RL (ug/sample)
Aroclor 1016	<0.010	<0.00023	0.010
Aroclor 1260	<0.010	<0.00023	0.010
Aroclor 1221	<0.020	<0.00046	0.020
Aroclor 1232	<0.010	<0.00023	0.010
Aroclor 1242	<0.010	<0.00023	0.010
Aroclor 1248	<0.010	<0.00023	0.010
Aroclor 1254	<0.010	<0.00023	0.010
Aroclor 1262	<0.010	<0.00023	0.010
Aroclor 1268	<0.010	<0.00023	0.010

Sample ID: A4-041124		Collected: 04/11/2024	
Lab ID: 2410650014		Received: 04/12/2024	
Sampling Location: Mt Vernon Elementary			
Method: NIOSH 5503	Media: Filter/Tube	Instrument: GCE03	
Dilution: 1	Sampling Parameter: Air Volume 42.5 L	Analyzed: 04/16/2024 (316700)	
Analyte	Result (ug/sample)	Result (mg/m ³)	RL (ug/sample)
Aroclor 1016	<0.010	<0.00024	0.010
Aroclor 1260	<0.010	<0.00024	0.010
Aroclor 1221	<0.020	<0.00047	0.020
Aroclor 1232	<0.010	<0.00024	0.010
Aroclor 1242	<0.010	<0.00024	0.010
Aroclor 1248	<0.010	<0.00024	0.010
Aroclor 1254	<0.010	<0.00024	0.010

Results Continued on Next Page



ANALYTICAL REPORT

Workorder: **34-2410650**

Client Project ID: Mt Vernon Elementary School

Purchase Order: NA

Project Manager: Stella Hanis

Analytical Results

Sample ID: A4-041124		Collected: 04/11/2024	
Lab ID: 2410650014		Received: 04/12/2024	
Sampling Location: Mt Vernon Elementary			
Method: NIOSH 5503	Media: Filter/Tube	Instrument: GCE03	
Dilution: 1	Sampling Parameter: Air Volume 42.5 L	Analyzed: 04/16/2024 (316700)	
Analyte	Result (ug/sample)	Result (mg/m ³)	RL (ug/sample)
Aroclor 1262	<0.010	<0.00024	0.010
Aroclor 1268	<0.010	<0.00024	0.010

Sample ID: A5-041124		Collected: 04/11/2024	
Lab ID: 2410650015		Received: 04/12/2024	
Sampling Location: Mt Vernon Elementary			
Method: NIOSH 5503	Media: Filter/Tube	Instrument: GCE03	
Dilution: 1	Sampling Parameter: Air Volume 43.4 L	Analyzed: 04/16/2024 (316700)	
Analyte	Result (ug/sample)	Result (mg/m ³)	RL (ug/sample)
Aroclor 1016	<0.010	<0.00023	0.010
Aroclor 1260	<0.010	<0.00023	0.010
Aroclor 1221	<0.020	<0.00046	0.020
Aroclor 1232	<0.010	<0.00023	0.010
Aroclor 1242	<0.010	<0.00023	0.010
Aroclor 1248	<0.010	<0.00023	0.010
Aroclor 1254	<0.010	<0.00023	0.010
Aroclor 1262	<0.010	<0.00023	0.010
Aroclor 1268	<0.010	<0.00023	0.010

Comments

Quality Control: NIOSH 5605 Draft, Acid Herb. - (Batch: 316701)

The CCV did not pass criteria for Chloramben. Any results for Chloramben should be treated as semi-quantitative.

Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method (Analysis Batch)	Analyst	Peer Review
NIOSH 5503 (316700)	/S/ Colin Johnson 04/23/2024 13:36	/S/ Steven J. Sagers 04/23/2024 14:32
NIOSH 5605 Draft by GC-ECD (316761)	/S/ Colin Johnson 04/19/2024 13:50	/S/ Steven J. Sagers 04/23/2024 10:36
NIOSH 5605 Draft, Acid Herb. (316701)	/S/ David Teynor 05/02/2024 09:50	/S/ Thomas J. Masoian 05/02/2024 11:22

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.alsglobal.com/slt



ANALYTICAL REPORT

Workorder: **34-2410650**

Client Project ID: Mt Vernon Elementary School

Purchase Order: NA

Project Manager: Stella Hanis

General Lab Comments

The results provided in this report relate only to the items tested.

Samples were received in acceptable condition unless otherwise noted.

The following was provided by the client: Sample ID, Collection Date, Sampling Location, Media Type, Sampling Parameter. Collection Date, Media Type, and Sampling Parameter can potentially affect the validity of the results.

Samples have not been blank corrected unless otherwise noted.

This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP)	101574	http://www.aihaaccreditedlabs.org
	DOECAP-AP	L24-29	http://www.pjllabs.com
	Washington	C596	https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Laboratory-Accreditation

Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.

LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.

ND = Not Detected, Testing result not detected above the LOD or LOQ.

NA = Not Applicable.

** No result could be reported, see sample comments for details.

< Means this testing result is less than the numerical value.

() This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.



Quality Control Sample Batch Report

Analysis Information

Workorder: 2410650

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: NA
Batch: NA
Prepared By: NA

Analysis: NIOSH 5503
Batch: IGC/1620 (HBN: 316700)
Analyzed By: Colin Johnson

Blank

LMB: 854532
Analyzed: 04/16/2024 00:00
Units: ug/sample

Analyte	Result	MDL	RL
Aroclor 1016	ND	NA	0.0100
Aroclor 1260	ND	NA	0.0100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 854533
Analyzed: 04/16/2024 00:00
Dilution: 1
Units: ug/sample

LCSD: 854534
Analyzed: 04/16/2024 00:00
Dilution: 1
Units: ug/sample

Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
Aroclor 1016	0.200	0.201	99.5	67.3	125.9	0.203	101	1.55	0.0	20.0
Aroclor 1260	0.179	0.200	89.6	67.6	128.5	0.183	91.5	2.16	0.0	20.0

QC Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Workorder	Analyst	Peer Review
2410650	/S/ Colin Johnson 04/23/2024 13:36	/S/ Steven J. Sagers 04/23/2024 14:32

Symbols and Definitions

- * - Analyte above reporting limit or outside of control limits
- ▲ - Sample result is greater than 4 times the spike added
- - Sample and Matrix Duplicate less than 5 times the reporting limit
- - Result is above the calibration range
- # - The Matrix Spike, Matrix Spike duplicate or Matrix Duplicate is reported for your information only. The sample matrix may be inappropriate for the method selected.

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected (U - Qualifier also flags analyte as not detected)
NA - Not Applicable
QC results are not adjusted for moisture correction, where applicable



Quality Control Sample Batch Report

Analysis Information

Workorder: 2410650

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: NA
Batch: NA
Prepared By: NA

Analysis: NIOSH 5605 Draft by GC-ECD
Batch: IGC/1623 (HBN: 316761)
Analyzed By: Colin Johnson

Blank

MB: 854750 Analyzed: 04/18/2024 00:00 Units: ug/sample			
Analyte	Result	MDL	RL
alpha-BHC	ND	NA	0.00200
gamma-BHC	ND	NA	0.00200
beta-BHC	ND	NA	0.00200
delta-BHC	ND	NA	0.00200
Heptachlor	ND	NA	0.00200
Aldrin	ND	NA	0.00200
Heptachlor epoxide	ND	NA	0.00200
gamma-Chlordane	ND	NA	0.00200
alpha-Chlordane	ND	NA	0.00200
Endosulfan-I	ND	NA	0.00200
4,4'-DDE	ND	NA	0.00200
Dieldrin	ND	NA	0.00200
Endrin	ND	NA	0.00200
4,4'-DDD	ND	NA	0.00200
Endosulfan-II	ND	NA	0.00200
4,4'-DDT	ND	NA	0.00200
Endrin aldehyde	ND	NA	0.00200
Endosulfan sulfate	ND	NA	0.00200
Methoxychlor	ND	NA	0.00200
Endrin ketone	ND	NA	0.00200
Chlordane (Technical)	ND	NA	0.0200
Toxaphene	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 854751 Analyzed: 04/18/2024 00:00 Dilution: 1 Units: ug/sample						LCSD: 854752 Analyzed: 04/18/2024 00:00 Dilution: 1 Units: ug/sample				
Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
alpha-BHC	0.0502	0.0500	100	67.2	126.5	0.0487	97.4	3.03	0.0	20.0
gamma-BHC	0.0506	0.0501	101	67.4	129.4	0.0495	98.8	2.20	0.0	20.0
beta-BHC	0.0535	0.0503	106	47.2	143.0	0.0508	101	5.18	0.0	20.0
delta-BHC	0.0545	0.0503	108	51.9	144.1	0.0528	105	3.17	0.0	20.0
Heptachlor	0.0523	0.0500	105	75.3	126.3	0.0503	101	3.90	0.0	20.0
Aldrin	0.0500	0.0503	99.5	75.1	123.3	0.0485	96.5	3.05	0.0	20.0
Heptachlor epoxide	0.0467	0.0500	93.4	78.1	122.1	0.0471	94.2	0.853	0.0	20.0
gamma-Chlordane	0.0499	0.0500	99.9	76.3	121.7	0.0480	96.0	3.88	0.0	20.0
alpha-Chlordane	0.0470	0.0500	94.0	75.8	121.2	0.0481	96.2	2.31	0.0	20.0



Quality Control Sample Batch Report

Analysis Information

Workorder: 2410650

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: NA
Batch: NA
Prepared By: NA

Analysis: NIOSH 5605 Draft by GC-ECD
Batch: IGC/1623 (HBN: 316761)
Analyzed By: Colin Johnson

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 854751 Analyzed: 04/18/2024 00:00 Dilution: 1 Units: ug/sample						LCSD: 854752 Analyzed: 04/18/2024 00:00 Dilution: 1 Units: ug/sample				
Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
Endosulfan-I	0.0476	0.0500	95.2	70.0	130.0	0.0475	95.0	0.210	0.0	20.0
4,4'-DDE	0.0441	0.0503	87.8	78.8	121.3	0.0463	92.1	4.87	0.0	20.0
Dieldrin	0.0479	0.0500	95.8	78.9	123.3	0.0478	95.6	0.209	0.0	20.0
Endrin	0.0446	0.0503	88.8	79.3	120.4	0.0449	89.4	0.670	0.0	20.0
4,4'-DDD	0.0447	0.0501	89.2	77.8	122.3	0.0464	92.6	3.73	0.0	20.0
Endosulfan-II	0.0459	0.0503	91.3	70.0	130.0	0.0473	94.1	3.00	0.0	20.0
4,4'-DDT	0.0439	0.0501	87.6	76.0	125.2	0.0462	92.2	5.11	0.0	20.0
Endrin aldehyde	0.0463	0.0501	92.4	61.9	133.6	0.0480	95.8	3.61	0.0	20.0
Endosulfan sulfate	0.0456	0.0503	90.7	65.0	127.9	0.0474	94.3	3.87	0.0	20.0
Methoxychlor	0.0442	0.0500	88.5	71.4	136.3	0.0468	93.7	5.71	0.0	20.0
Endrin ketone	0.0441	0.0505	87.3	74.9	124.6	0.0471	93.3	6.58	0.0	20.0

QC Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Workorder	Analyst	Peer Review
2410650	/S/ Colin Johnson 04/19/2024 13:50	/S/ Steven J. Sagers 04/23/2024 10:36

Symbols and Definitions

- * - Analyte above reporting limit or outside of control limits
- ▲ - Sample result is greater than 4 times the spike added
- - Sample and Matrix Duplicate less than 5 times the reporting limit
- - Result is above the calibration range
- # - The Matrix Spike, Matrix Spike duplicate or Matrix Duplicate is reported for your information only. The sample matrix may be inappropriate for the method selected.

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected (U - Qualifier also flags analyte as not detected)
NA - Not Applicable
QC results are not adjusted for moisture correction, where applicable



Quality Control Sample Batch Report

Analysis Information

Workorder: 2410650

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: NA
Batch: NA
Prepared By: NA

Analysis: NIOSH 5605 Draft, Acid Herb.
Batch: ISVO/6518 (HBN: 316701)
Analyzed By: David Teynor

Blank

MB: 854536
Analyzed: 05/01/2024 13:20
Units: ug/sample

Analyte	Result	MDL	RL
2,4,5-T	ND	NA	0.0300
2,4-D	ND	NA	0.0300
2,4-DB	ND	NA	0.0300
Acifluorfen	ND	NA	0.0300
Dicamba	ND	NA	0.0300
Dichlorprop	ND	NA	0.0300
Dinoseb	ND	NA	0.0300
MCPA	ND	NA	1.00
MCPP	ND	NA	1.00
Pentachlorophenol	ND	NA	0.0300
Picloram	ND	NA	0.0300
2,4,5-TP(Silvex)	ND	NA	0.0300
Chloramben	ND	NA	0.0300
Dacthal	ND	NA	0.0300

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 854537
Analyzed: 05/01/2024 13:41
Dilution: 1
Units: ug/sample

LCSD: 854538
Analyzed: 05/01/2024 14:02
Dilution: 1
Units: ug/sample

Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
2,4,5-T	0.967	1.00	96.7	50.0	150.0	0.962	96.2	0.498	0.0	20.0
2,4-DB	0.950	1.00	95.0	60.0	140.0	0.951	95.1	0.116	0.0	20.0
Acifluorfen	0.879	1.00	87.9	60.0	140.0	0.877	87.7	0.285	0.0	20.0
Dicamba	1.01	1.00	101	50.0	150.0	1.02	102	0.855	0.0	20.0
2,4-D	0.965	1.00	96.5	50.0	150.0	0.965	96.5	0.0725	0.0	20.0
Dichlorprop	1.03	1.00	103	60.0	140.0	1.05	105	1.93	0.0	20.0
Dinoseb	0.865	1.00	86.5	50.0	150.0	0.862	86.2	0.290	0.0	20.0
MCPA	120	100	120	50.0	150.0	120	120	0.0997	0.0	20.0
MCPP	118	100	118	50.0	150.0	118	118	0.340	0.0	20.0
Pentachlorophenol	1.00	1.00	100	60.0	140.0	1.01	101	0.398	0.0	20.0
Picloram	0.983	1.00	98.3	60.0	140.0	0.852	85.2	14.3	0.0	20.0
2,4,5-TP(Silvex)	0.961	1.00	96.1	60.0	140.0	0.975	97.5	1.45	0.0	20.0
Chloramben	1.03	1.00	103	60.0	140.0	0.990	99.0	4.15	0.0	20.0
Dacthal	0.923	1.00	92.3	60.0	140.0	1.02	102	10.5	0.0	20.0

Comments

The CCV did not pass criteria for Chloramben. Any results for Chloramben should be treated as semi-quantitative.



Quality Control Sample Batch Report

Analysis Information

Workorder: 2410650

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: NA
Batch: NA
Prepared By: NA

Analysis: NIOSH 5605 Draft, Acid Herb.
Batch: ISVO/6518 (HBN: 316701)
Analyzed By: David Teynor

QC Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Workorder	Analyst	Peer Review
2410650	/S/ David Teynor 05/02/2024 09:50	/S/ Thomas J. Masoian 05/02/2024 11:22

Symbols and Definitions

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RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected (U - Qualifier also flags analyte as not detected)
NA - Not Applicable
QC results are not adjusted for moisture correction, where applicable



2410650



ANALYTICAL REQUEST FORM

2410650

1. ☒ REGULAR Status☐ RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____

DATE

CONTACT ALS SALT LAKE PRIOR TO SENDING SAMPLES

2. Date 4/11/2024 Purchase Order No. _____

4. Quote No. _____

3. Company Name : PBSALS Project Manager: Stella HanisAddress: 3500 Chad Drive Suite 100

5. Sample Collection

Eugene, OR 97408

Sampling Site Mt. Vernon Elementary SchoolPerson to Contact: Cary MidwoodIndustrial Process: No

Telephone (360)7495698

Date of Collection 4/11/2024

Fax Telephone () _____

Time Collected All Samples ran for 8 hours (Approx.)E-mail Address: cary.midwood@pbsusa.comDate of Shipment 04/12/24

Billing Address (if different from above)

Chain of Custody No.: _____

6. How did you first learn about ALS?

7. REQUEST FOR ANALYSES

Client Sample Number	Matrix*	Sample/Area Volume	ANALYSES REQUESTED - Use method number if known	Units**	Lab Comments
A1-041124	Air	380 L	Pesticides by NIOSH 5605. Herbicides by NIOSH 5605	2 mL	
A2-041124	Air	369.6 L	Pesticides by NIOSH 5605. Herbicides by NIOSH 5605	2 mL	
A3-041124	Air	350.4 L	Pesticides by NIOSH 5605. Herbicides by NIOSH 5605	2 mL	
A4-041124	Air	340 L	Pesticides by NIOSH 5605. Herbicides by NIOSH 5605	2 mL	
A5-041124	Air	175.5 L	Pesticides by NIOSH 5605. Herbicides by NIOSH 5605	2 mL	
A1-041124	Air	47.5 L	PCBs by NIOSH 5503	7 mL	
A2-041124	Air	46.2 L	PCBs by NIOSH 5503	7 mL	
A3-041124	Air	43.8 L	PCBs by NIOSH 5503	7 mL	
A4-041124	Air	42.5 L	PCBs by NIOSH 5503	7 mL	
A5-041124	Air	43.4 L	PCBs by NIOSH 5503	7 mL	

* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other

** 1. µg/sample 2. mg/m³ 3. ppm 4. % 5. µg/m³ 6. _____ (other) Please indicate one or more units in the column entitled Units**Comments 2 Sep tubes rec'd for PEST (220-98) + Herb (220-100)2 Sep tubes for PCB (220-37) + GFF

Possible Contamination and/or Chemical Hazards _____

7. Chain of Custody (Optional)

Relinquished by	<u>MASON KAZER</u>	Date/Time	<u>04/12/24 13:30</u>
Received by	<u>[Signature]</u> <u>Friday 2759 374/2596</u>	Date/Time	<u>4/12/24 950</u>
Relinquished by	_____	Date/Time	_____
Received by	_____	Date/Time	_____

960 West LeVoy Drive / Salt Lake City, UT 84123

800-356-9135 or 801-266-7700 / FAX: 801-268-9992

ALS Environmental