August 23, 2019

Mr. Devlin Piplic
Director of Facilities
Monroe School District
200 East Fremont
Monroe, WA 98272

RE: 2019 Annual PCB Wipe Testing
Sky Valley Educational Center
351 Short Columbia Street
Monroe, Washington

Dear Mr. Piplic:

PBS Engineering and Environmental, Inc. (PBS) performed Polychlorinated Biphenyl (PCB) surface testing for the annual monitoring program at the Sky Valley Educational Center (SVEC) located at 351 Short Columbia Street, Monroe, Washington. The following report discusses background information, methodology, findings and conclusions.

BACKGROUND INFORMATION

PCB-containing caulking and contaminated light fixture abatement activities were performed at the Sky Valley Educational Center (SVEC) in the Administration, Annex, Gymnasium, Classroom Pod/Library, and the Technology buildings during summer 2016.

PBS was requested to conduct annual surface sampling for PCBs in accordance with the SVEC, March 27, 2017 Quality Assurance Project Plan (QAPP) to evaluate the effectiveness of the abatement process.

METHODOLOGY

The following is a description of the surface sample collection and analysis process. The Monroe School District provided PBS with drawings that identified specific locations to be sampled. See attached sample location diagrams.

PBS collected surface samples in twelve (12) interior locations within the study area. The 2019 annual PCB surface sampling was performed using the wipe sampling method in 40 CFR Part 761. This method uses a gauze pad wetted with hexane and placed in a glass jar. The sample media was provided by ALS Laboratories. The hexane wetted gauze pad is wiped over a 100 cm^2 area using a disposable template as a guide and then placed in a glass jar. PBS personnel wore disposable nitrile gloves to protect against cross-contamination between samples. A total of two (2) field blanks were collected during this activity. The wipe samples were collected to evaluate the effectiveness of the epoxy sealant. The samples were labeled with unique identification numbers, packaged and delivered with chain-of-custody documentation to ALS Laboratories. The samples were analyzed by EPA Method SW 8082 for PCBs. See attached laboratory report.

The EPA regulatory threshold for PCBs in surface wipes is 10 micrograms (µg) per 100 cm^2.

FINDINGS

The following is a summary of our laboratory findings for the surface sampling activity.

Laboratory results revealed all twelve (12) surface wipe samples collected during this annual monitoring event were **below** the EPA threshold of 10 µg/100 cm^2, see Table 1.

Table 1 – Wipe Sampling Results

Sample Number	Location	PCB Results (µg/100 cm^2)
W-01-2019	Annex building – Room E - South window, right-lower brick/metal transition	0.47
W-02-2019	Annex building – Room F - North window, right-middle brick/metal transition	0.30
W-03-2019	Gym building – CTE - Northwest window, upper-right brick/metal transition	3.3
W-04-2019	Gym building – Gathering place – Center window of Southeast bay, top-horizontal brick/metal transition	ND
W-05-2019	North Pod – Room 19 - West window, lower-horizontal brick/metal transition	ND
W-06-2019	North Pod – Room 16 - North window, lower-left corner brick/metal transition	0.21
W-07-2019	East Pod – Room 13 - North window, lower-left corner brick/metal transition	0.29
W-08-2019	East Pod – Room 9 - South window, right vertical center brick/metal transition	0.16
W-09-2019	South Pod – Room 6 - East window, left vertical center brick/metal transition	1.0
W-10-2019	South Pod – Room 2 - West window, right upper corner brick/metal transition	0.64
W-11-2019	Admin building – Staff room, Northeast window, lower right corner brick/metal transition	ND
W-12-2019	Admin building – Southwest corner office – West window, lower left corner brick/metal transition	ND

µg/100 cm^2 = micrograms/100 square centimeters
ND = Not detected above reporting limits

CONCLUSIONS

Based on laboratory results of the surface wipe samples, no PCBs were found to exceed the EPA regulatory threshold.

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

Sincerely,

PBS Engineering and Environmental, Inc.

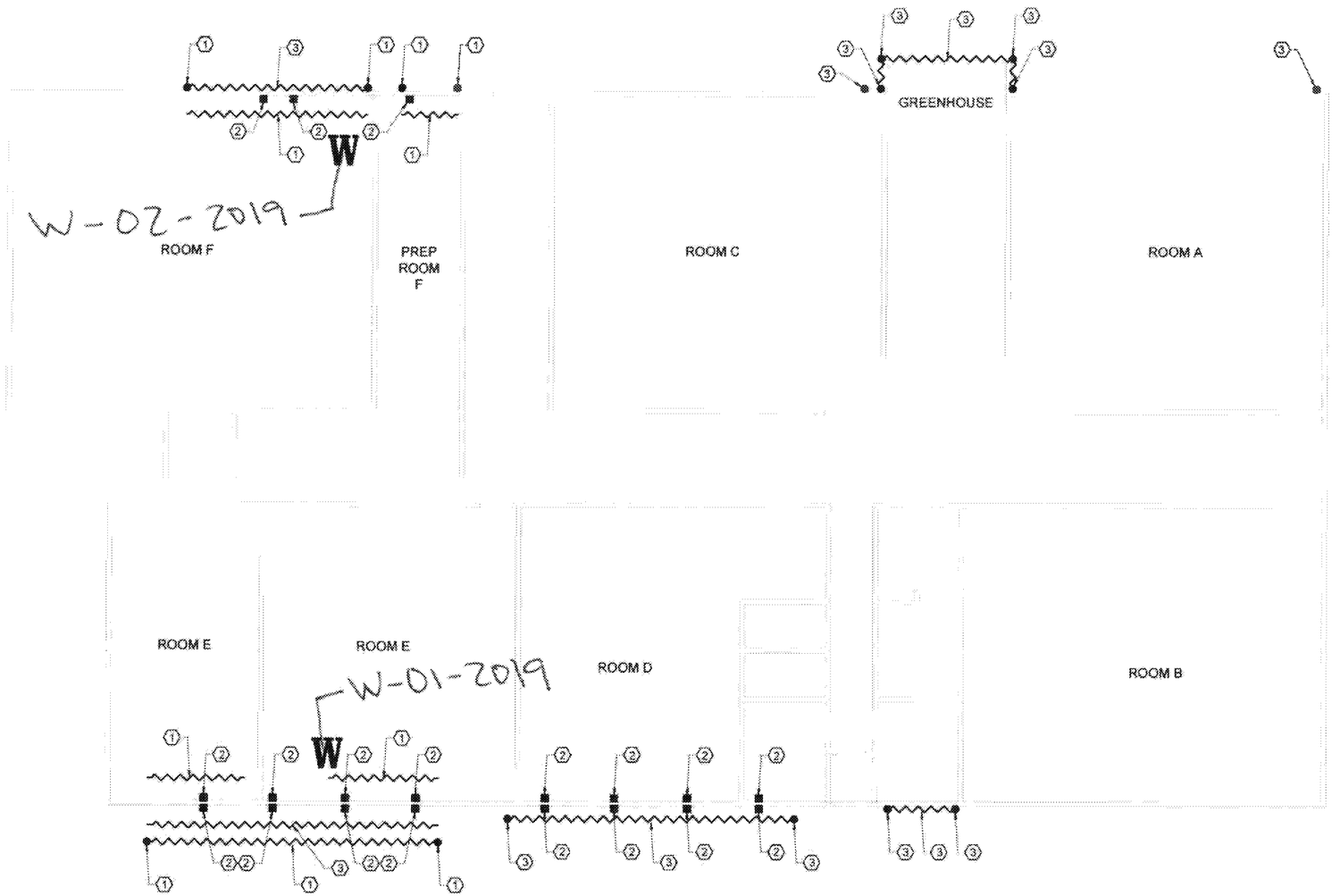
Digitally signed by Justin H. Day
Date: 2019.08.23 11:51:11
-07'00'

Justin Day
Industrial Hygiene Technician

Digitally signed by Gregg Middaugh
Date: 2019.08.23 12:32:18
-07'00'

Reviewed by: Gregg Middaugh
Senior Project Manager

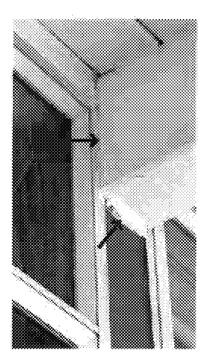
Attachments: Sample location Diagrams
Surface Wipe Sample Laboratory Report



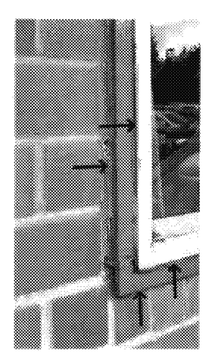
ANNEX BUILDING

NOT TO SCALE

①②③ PHOTO DETAIL



② PHOTO DETAIL



①③ PHOTO DETAIL

Air Testing Sample

W Wipe Test Sample

GENERAL NOTES

1. ALL ABATEMENT RELATED ACTIVITIES AT THIS PROJECT SITE SHALL COMPLY WITH DIVISION 01 AND 02 AND SPECIFICALLY SECTION 028400 PCB ACTIVITIES. CONTRACTOR TO VERIFY ALL ITEMS SHOWN, LOCATIONS AND QUANTITIES OF MATERIALS TO BE REMOVED, AND DIMENSIONS PRIOR TO REMOVAL. ANY DEVIATIONS FROM THE SPECIFICATION THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE OWNERS REPRESENTATIVE PRIOR TO REMOVAL. THE DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY. GENERAL LOCATIONS OF PCB-CONTAINING MATERIALS ARE DEPICTED DIAGRAMMATICALLY ON THE DRAWINGS. THE REMAINING MATERIAL LOCATIONS ARE DESCRIBED TEXTUALLY ON THESE DRAWINGS. QUANTITIES OF HAZARDOUS MATERIALS LISTED ON THIS SHEET ARE CONSIDERED ACCURATE TO WITHIN +/- 10%. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND PERMITS FOR THE REMOVAL AND DISPOSAL OF THE QUANTITIES OF HAZARDOUS MATERIALS PROVIDED PLUS AN ADDITIONAL 10%. THE CONTRACTOR WILL BE COMPENSATED FOR QUANTITIES WHICH ARE GREATER THAN 110% OF THE TOTAL AND THE OWNER WILL DEDUCT FROM THE CONTRACT SUM QUANTITIES THAT ARE 90% OR LESS OF THE TOTAL.
2. REMOVAL OF HAZARDOUS MATERIALS MAY COMPROMISE THE SECURITY OF THE SITE. THE CONTRACTOR IS FULLY RESPONSIBLE FOR MAINTAINING SITE SECURITY AND PUBLIC SAFETY THROUGHOUT THE PROJECT. SEE SPECIFICATIONS REGARDING SECURITY AND PUBLIC SAFETY.
3. ABATEMENT CONTRACTOR TO COORDINATE ALL ACTIVITIES WITH ALL OTHER ONSITE WORK INCLUDING, BUT NOT LIMITED TO: SCHEDULE, ACCESS, STAGING, ETC. ABATEMENT CONTRACTOR TO REPORT LOCATIONS AND QUANTITIES OF ALL HAZARDOUS MATERIALS TO BE REMOVED, TO THE OWNERS REPRESENTATIVE PRIOR TO ABATEMENT/DEMOLITION.
4. THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS.

KEY NOTES

① REMOVE APPROX. 200 LF OF PCB-CONTAINING CAULKING LOCATED ON INTERIOR PERIMETER METAL WINDOW FRAME TRANSITIONS. THIS INCLUDES REMOVAL OF CAULKING WHICH EXISTS ON EXTERIOR METAL WINDOW FRAME TRANSITIONS ON THE NORTH AND SOUTH BUILDING ELEVATION WINDOWS AS SHOWN.

② REMOVE APPROX. 80 LF OF PCB-CONTAINING CAULKING ON WOOD CEILING/SOFFIT BEAMS AT PERIMETER WALL/CEILING TRANSITIONS IN ROOMS E, F AND PREP ROOM F AS SHOWN.

③ REMOVE APPROX. 300 LF OF PCB AND ASBESTOS-CONTAINING TAN CAULKING LOCATED ON VARIOUS VERTICAL AND HORIZONTAL METAL WINDOW FRAME TRANSITIONS ON THE NORTH AND SOUTH ELEVATIONS OF THE ANNEX BUILDING AS SHOWN.

LEGEND

- ● VERTICAL CAULKING RUN
- ■ CAULKING ON BEAM
- 〰 HORIZONTAL CAULKING RUN

NOT TO SCALE

MONROE SCHOOL DISTRICT

ANNEX BUILDING CAULKING ABATEMENT PLAN

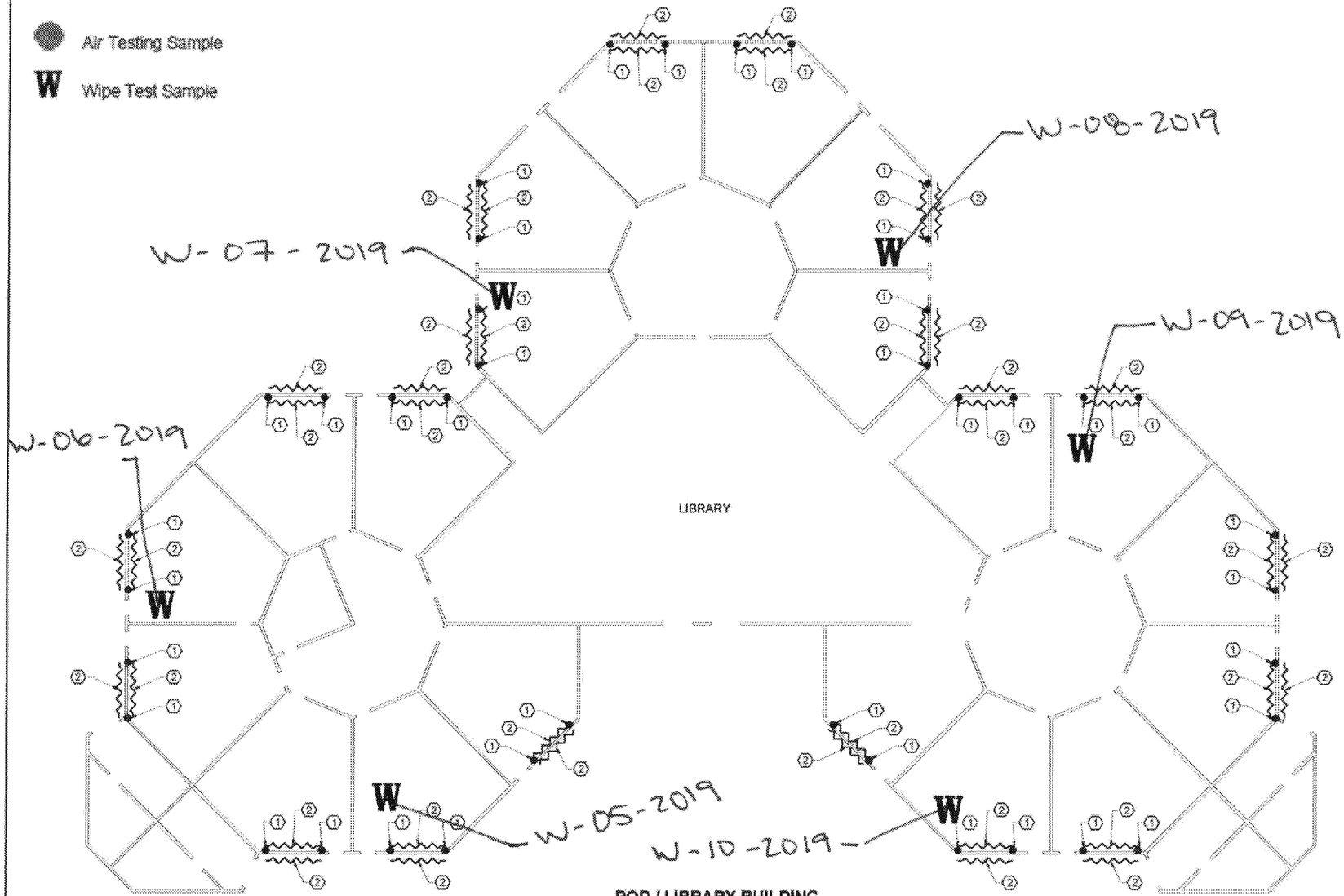
SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY EDUCATIONAL CENTER
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

PROJECT	41373.000
DRAWN	JHD
CHECKED	GM
DATE	JUNE 2019
DWG NO	HM4
SHEET NO	4 OF 5

Air Testing Sample

W Wipe Test Sample



POD / LIBRARY BUILDING

NOT TO SCALE

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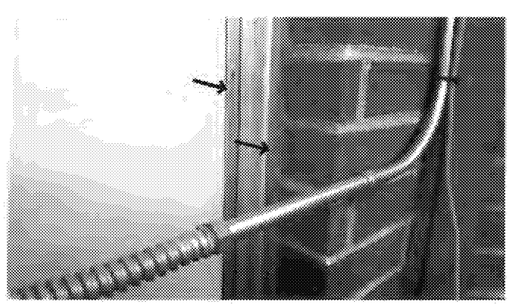
4. THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS.

KEY NOTES

1. REMOVE APPROX. 500 LF OF PCB-CONTAINING CAULKING LOCATED ON INTERIOR PERIMETER METAL WINDOW FRAME TO BRICK TRANSITION VERTICALS IN EACH OF CLASSROOMS 1-20 AS SHOWN.
2. REMOVE APPROX. 1,400 LF OF PCB-CONTAINING CAULKING ON THE INTERIOR AND EXTERIOR SIDES OF THE CEMENT ASBESTOS BOARD (CAB) WINDOW INFILL PANELS. THE CAULKING FILLS THE GAP BETWEEN THE METAL WINDOW FRAME AND CAB TRANSITION IN EACH OF CLASSROOMS 1-20 AS SHOWN.

LEGEND

- VERTICAL CAULKING RUN
- HORIZONTAL CAULKING RUN



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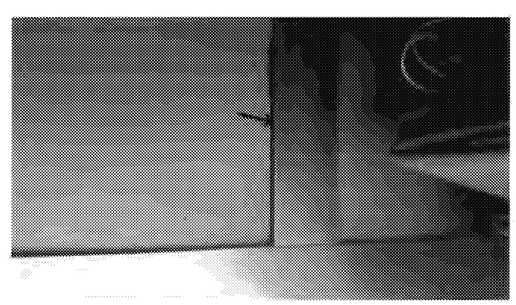

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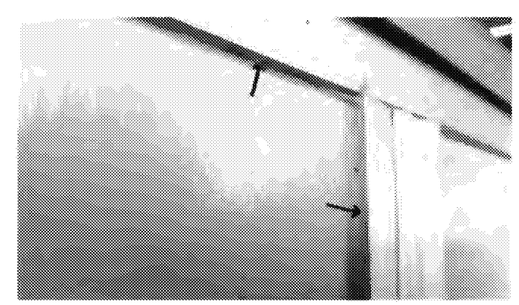


②PHOTO DETAIL

NOT TO SCALE

MONROE SCHOOL DISTRICT

POD/LIBRBAY BUILDING CAULKING ABATEMENT PLAN

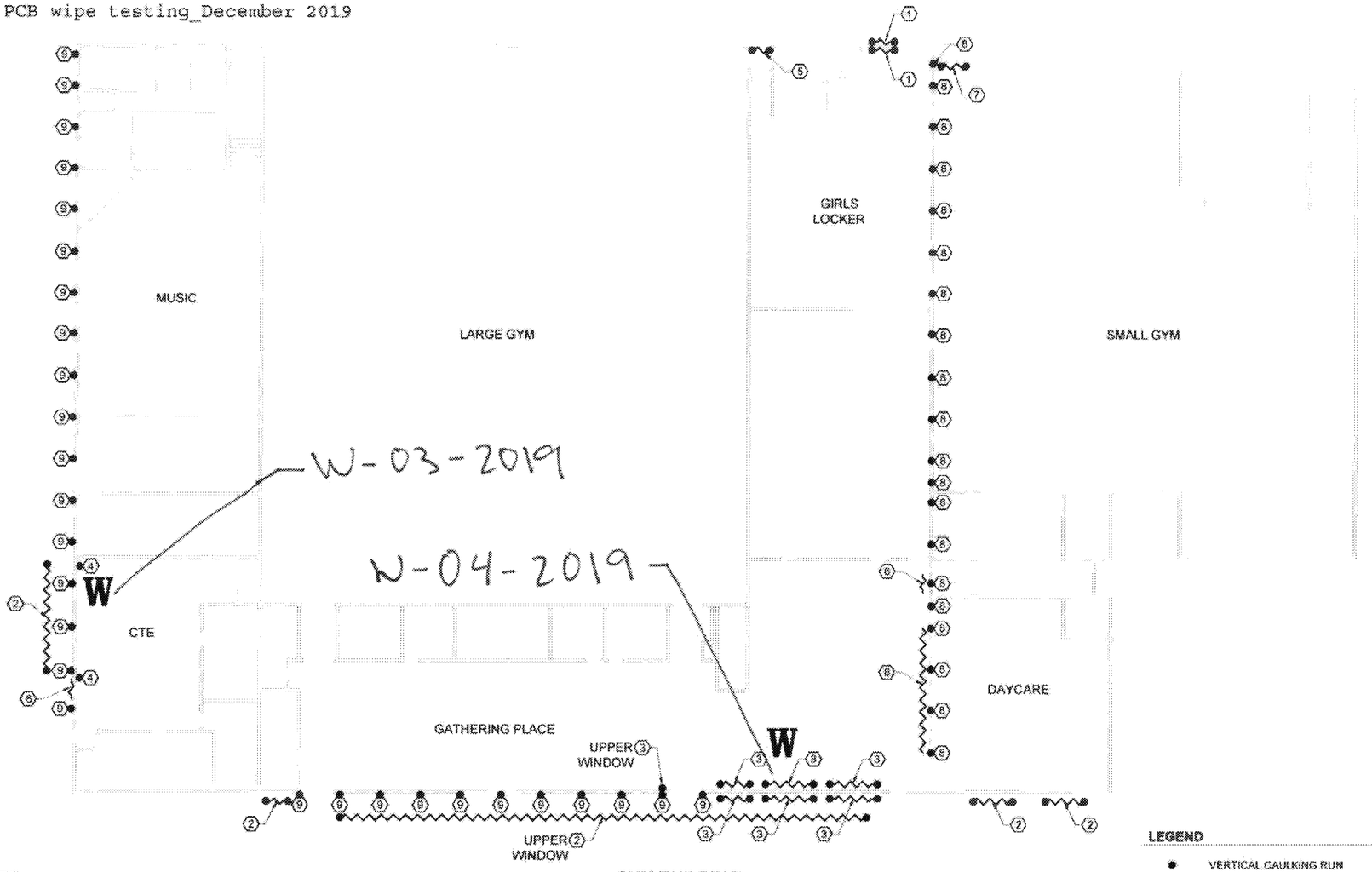
SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY EDUCATIONAL CENTER

331 SHORT COLUMBIA STREET
MONROE, WASHINGTON

PROJECT:	41373.000
DRAWN:	JHD
CHECKED:	GM
DATE:	JUNE 2018
DWG. NO.	HM2
SHEET NO.	2 OF 5

PCB wipe testing_December 2019



GYM BUILDING
NOT TO SCALE

W Wipe Test Sample

GENERAL NOTES

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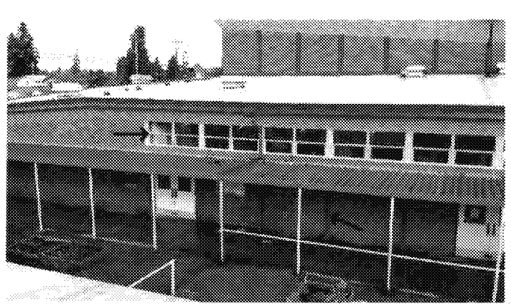
4. THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS.

KEY NOTES

1. REMOVE APPROX. 20 LF OF PCB-CONTAINING CAULKING LOCATED ON THE EXTERIOR AND INTERIOR METAL WINDOW FRAME ON THE GIRLS LOCKER ROOM NORTH PERIMETER WINDOW AS SHOWN.
2. REMOVE APPROX. 300 LF OF PCB-CONTAINING CAULKING ON THE EXTERIOR METAL WINDOW FRAMES ON ALL WINDOWS AT THE SOUTH AND WEST ELEVATIONS OF THE LARGE GYM BUILDING AS SHOWN. THIS INCLUDES CAULKING THAT EXISTS AROUND EACH WINDOW INFILL PANEL METAL FRAME TRANSITION ON THE WEST ELEVATION. THESE INFILL PANELS ARE CEMENT ASBESTOS BOARD.
3. REMOVE APPROX. 40 LF OF PCB-CONTAINING CAULKING LOCATED ON INTERIOR SIDE OF THE THREE LOWER WINDOWS AND THE UPPER WINDOW BANK EAST VERTICAL IN THE GATHERING PLACE AS SHOWN.
4. REMOVE APPROX. 10 LF OF PCB-CONTAINING OF CAULK ON INTERIOR WINDOW FRAME VERTICALS IN THE CTE ROOM AS SHOWN.
5. REMOVE APPROX. 18 LF OF PCB-CONTAINING OF CAULK ON INTERIOR SIDE OF NORTH EXTERIOR GIRLS LOCKER ENTRY DOOR AS SHOWN.
6. REMOVE APPROX. 18 LF OF PCB-CONTAINING OF CAULK ON EXTERIOR SIDE OF NORTH CTE ENTRY DOOR AS SHOWN.
7. REMOVE APPROX. 18 LF OF PCB-CONTAINING OF CAULK ON THE INTERIOR SIDE OF THE NORTHWEST PERIMETER ENTRY DOOR FRAME OF THE SMALL GYM AS SHOWN.
8. REMOVE APPROX. 500 LF OF PCB-CONTAINING CAULKING LOCATED ON ALL VERTICAL STRUCTURAL METAL COLUMN TRANSITIONS THROUGHOUT THE EAST ELEVATION OF THE LARGE GYM AS SHOWN. THIS INCLUDES THE REMOVAL OF ALL CAULKING ON THE INTERIOR DEMISING WALL METAL BEAMS (VERTICAL AND HORIZONTAL) BETWEEN THE DAYCARE AND THE GATHERING PLACE/CAFETERIA AS SHOWN. THE CAULKING IS HEAVILY PAINTED THROUGHOUT THE WORK SCOPE AREA.
9. REMOVE APPROX. 780 LF OF PCB-CONTAINING CAULKING LOCATED ON ALL EXTERIOR VERTICAL STRUCTURAL METAL COLUMN TRANSITIONS THROUGHOUT THE LOWER WEST AND SOUTH ELEVATIONS OF THE LARGE GYM BUILDING AS SHOWN.

LEGEND

- VERTICAL CAULKING RUN
- HORIZONTAL CAULKING RUNS



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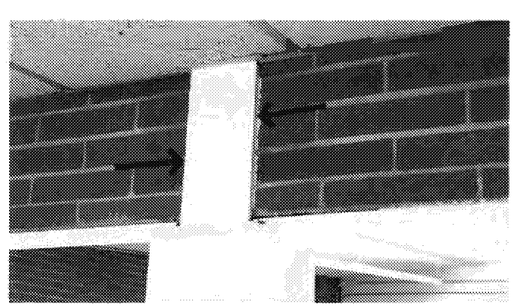

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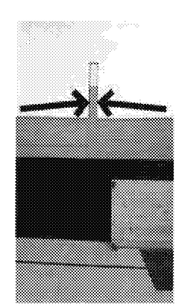


⑧PHOTO DETAIL

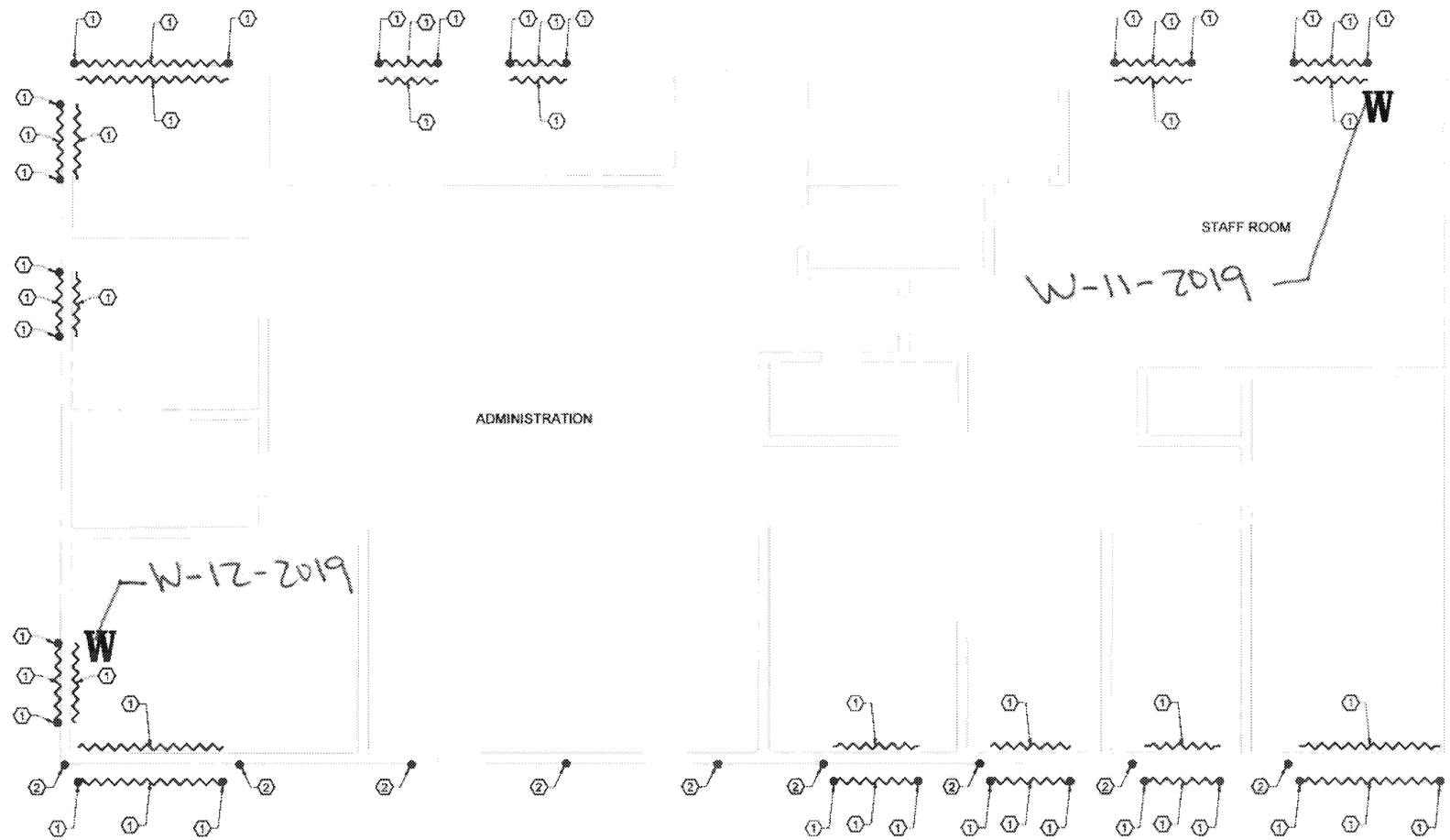
NOT TO SCALE

MONROE SCHOOL DISTRICT

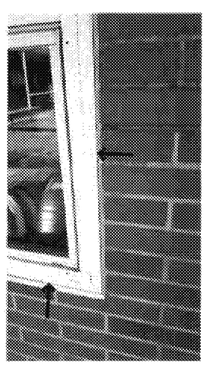
GYM BUILDING
CAULKING ABATEMENT PLAN
SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY EDUCATIONAL CENTER
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

PROJECT	51373.002
DRAWN	JHD
CHECKED	GM
DATE	JUNE 2019
DWG NO	HM1
SHEET NO	1 OF 5



ADMIN BUILDING
NOT TO SCALE



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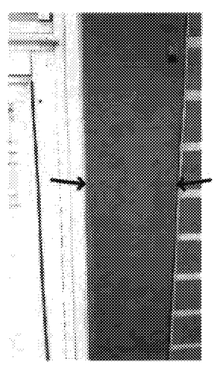

②PHOTO DETAIL

● Air Testing Sample

W Wipe Test Sample

GENERAL NOTES

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4. THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS.

KEY NOTES

① REMOVE APPROX. 400 LF OF PCB-CONTAINING CAULKING LOCATED ON ALL INTERIOR METAL WINDOW SILL TRANSITIONS AND ALL EXTERIOR METAL WINDOW FRAME TRANSITIONS THROUGHOUT THE ADMINISTRATION BUILDING AS SHOWN.

② REMOVE APPROX. 175 LF OF PCB-CONTAINING CAULKING LOCATED ON ALL EXTERIOR VERTICAL STRUCTURAL METAL BEAM TRANSITIONS THROUGHOUT THE ADMINISTRATION BUILDING AS SHOWN.

LEGEND

● VERTICAL CAULKING RUN

〰 HORIZONTAL CAULKING RUN

NOT TO SCALE

MONROE SCHOOL DISTRICT

ADMIN BUILDING
CAULKING ABATEMENT PLAN
SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY EDUCATIONAL CENTER
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

PROJECT	41372.000
DRAWN	JHD
CHECKED	RM
DATE	JUNE 2018
DWG NO.	HM3
SHEET NO.	3 OF 5

ANALYTICAL REPORT
Amended-20190823

Report Date: August 23, 2019

Gregg Middaugh
PBS Engineering & Environmental
2517 Eastlake Ave. East
Suite 100
Seattle, WA 98102

Phone: (206) 233-9639
Fax: (206) 762-4780
E-mail: gregg.middaugh@pbsusa.com

Workorder: **34-1922943**
Project ID: SKy Valley/Monroe SD
Purchase Order: NA
Project Manager Stella Hanis

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
W-01-2019	1922943001	08/08/19	08/12/19	Sky Valley/Monroe SD
W-02-2019	1922943002	08/08/19	08/12/19	Sky Valley/Monroe SD
W-03-2019	1922943003	08/08/19	08/12/19	Sky Valley/Monroe SD
W-04-2019	1922943004	08/08/19	08/12/19	Sky Valley/Monroe SD
W-05-2019	1922943005	08/08/19	08/12/19	Sky Valley/Monroe SD
W-06-2019	1922943006	08/08/19	08/12/19	Sky Valley/Monroe SD
W-07-2019	1922943007	08/08/19	08/12/19	Sky Valley/Monroe SD
W-08-2019	1922943008	08/08/19	08/12/19	Sky Valley/Monroe SD
W-09-2019	1922943009	08/08/19	08/12/19	Sky Valley/Monroe SD
W-10-2019	1922943010	08/08/19	08/12/19	Sky Valley/Monroe SD
W-11-2019	1922943011	08/08/19	08/12/19	Sky Valley/Monroe SD
W-12-2019	1922943012	08/08/19	08/12/19	Sky Valley/Monroe SD
W-13-2019	1922943013	08/08/19	08/12/19	Sky Valley/Monroe SD
W-14-2019	1922943014	08/08/19	08/12/19	Sky Valley/Monroe SD

ANALYTICAL REPORT
Amended-20190823

Workorder: 34-1922943
Client: PBS Environmental
Project Manager: Stella Hanis

Analytical Results

Sample ID: **W-01-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943001 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

Analysis Method - SW 8082

Preparation:	EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis:	SW 8082, Wipe	Instrument ID: GCE03
Batch:	ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch:	EGC/7892 (HBN: 245748)	%Solids: NA
Prepared:	08/13/2019	Final: 10 mL	Analyzed:	08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<0.20	0.20	1	
Aroclor 1232	ND	<0.10	0.10	1	
Aroclor 1016	ND	<0.10	0.10	1	
Aroclor 1242	ND	<0.10	0.10	1	
Aroclor 1248	ND	<0.10	0.10	1	
Aroclor 1254	ND	<0.10	0.10	1	
Aroclor 1260	**0.47**	**0.47**	0.10	1	
Aroclor 1262	ND	<0.10	0.10	1	
Aroclor 1268	ND	<0.10	0.10	1	

Sample ID: **W-02-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943002 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

Analysis Method - SW 8082

Preparation:	EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis:	SW 8082, Wipe	Instrument ID: GCE03
Batch:	ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch:	EGC/7892 (HBN: 245748)	%Solids: NA
Prepared:	08/13/2019	Final: 10 mL	Analyzed:	08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<0.20	0.20	1	
Aroclor 1232	ND	<0.10	0.10	1	
Aroclor 1016	ND	<0.10	0.10	1	
Aroclor 1242	ND	<0.10	0.10	1	
Aroclor 1248	ND	<0.10	0.10	1	
Aroclor 1254	ND	<0.10	0.10	1	
Aroclor 1260	**0.30**	**0.30**	0.10	1	
Aroclor 1262	ND	<0.10	0.10	1	
Aroclor 1268	ND	<0.10	0.10	1	

ANALYTICAL REPORT
Amended-20190823

Workorder: **34-1922943**
Client: PBS Environmental
Project Manager: Stella Hanis

Analytical Results

Sample ID: **W-03-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943003 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch: EGC/7892 (HBN: 245748)	%Solids: NA
Prepared: 08/13/2019	Final: 10 mL	Analyzed: 08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<0.20	0.20	1	
Aroclor 1232	ND	<0.10	0.10	1	
Aroclor 1016	ND	<0.10	0.10	1	
Aroclor 1242	ND	<0.10	0.10	1	
Aroclor 1248	ND	<0.10	0.10	1	
Aroclor 1254	ND	<0.10	0.10	1	
Aroclor 1260	ND	<0.10	0.10	1	
Aroclor 1262	**3.3**	**3.3**	0.10	1	
Aroclor 1268	ND	<0.10	0.10	1	

Sample ID: **W-04-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943004 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch: EGC/7892 (HBN: 245748)	%Solids: NA
Prepared: 08/13/2019	Final: 10 mL	Analyzed: 08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<0.20	0.20	1	
Aroclor 1232	ND	<0.10	0.10	1	
Aroclor 1016	ND	<0.10	0.10	1	
Aroclor 1242	ND	<0.10	0.10	1	
Aroclor 1248	ND	<0.10	0.10	1	
Aroclor 1254	ND	<0.10	0.10	1	
Aroclor 1260	ND	<0.10	0.10	1	
Aroclor 1262	ND	<0.10	0.10	1	
Aroclor 1268	ND	<0.10	0.10	1	

ANALYTICAL REPORT
Amended-20190823

Workorder: **34-1922943**
Client: PBS Environmental
Project Manager: Stella Hanis

Analytical Results

Sample ID: **W-05-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943005 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

Analysis Method - SW 8082

Preparation:	EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis:	SW 8082, Wipe	Instrument ID: GCE03
Batch:	ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch:	EGC/7892 (HBN: 245748)	%Solids: NA
Prepared:	08/13/2019	Final: 10 mL	Analyzed:	08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<0.20	0.20	1	
Aroclor 1232	ND	<0.10	0.10	1	
Aroclor 1016	ND	<0.10	0.10	1	
Aroclor 1242	ND	<0.10	0.10	1	
Aroclor 1248	ND	<0.10	0.10	1	
Aroclor 1254	ND	<0.10	0.10	1	
Aroclor 1260	ND	<0.10	0.10	1	
Aroclor 1262	ND	<0.10	0.10	1	
Aroclor 1268	ND	<0.10	0.10	1	

Sample ID: **W-06-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943006 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

Analysis Method - SW 8082

Preparation:	EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis:	SW 8082, Wipe	Instrument ID: GCE03
Batch:	ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch:	EGC/7892 (HBN: 245748)	%Solids: NA
Prepared:	08/13/2019	Final: 10 mL	Analyzed:	08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<0.20	0.20	1	
Aroclor 1232	ND	<0.10	0.10	1	
Aroclor 1016	ND	<0.10	0.10	1	
Aroclor 1242	ND	<0.10	0.10	1	
Aroclor 1248	ND	<0.10	0.10	1	
Aroclor 1254	ND	<0.10	0.10	1	
Aroclor 1260	**0.21**	**0.21**	0.10	1	
Aroclor 1262	ND	<0.10	0.10	1	
Aroclor 1268	ND	<0.10	0.10	1	

ANALYTICAL REPORT
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Workorder: 34-1922943
Client: PBS Environmental
Project Manager: Stella Hanis

Analytical Results

Sample ID: **W-07-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943007 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

Analysis Method - SW 8082

Preparation:	EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis:	SW 8082, Wipe	Instrument ID: GCE03
Batch:	ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch:	EGC/7892 (HBN: 245748)	%Solids: NA
Prepared:	08/13/2019	Final: 10 mL	Analyzed:	08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<0.20	0.20	1	
Aroclor 1232	ND	<0.10	0.10	1	
Aroclor 1016	ND	<0.10	0.10	1	
Aroclor 1242	ND	<0.10	0.10	1	
Aroclor 1248	ND	<0.10	0.10	1	
Aroclor 1254	ND	<0.10	0.10	1	
Aroclor 1260	**0.29**	**0.29**	0.10	1	
Aroclor 1262	ND	<0.10	0.10	1	
Aroclor 1268	ND	<0.10	0.10	1	

Sample ID: **W-08-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943008 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

Analysis Method - SW 8082

Preparation:	EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis:	SW 8082, Wipe	Instrument ID: GCE03
Batch:	ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch:	EGC/7892 (HBN: 245748)	%Solids: NA
Prepared:	08/13/2019	Final: 10 mL	Analyzed:	08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<0.20	0.20	1	
Aroclor 1232	ND	<0.10	0.10	1	
Aroclor 1016	ND	<0.10	0.10	1	
Aroclor 1242	ND	<0.10	0.10	1	
Aroclor 1248	ND	<0.10	0.10	1	
Aroclor 1254	ND	<0.10	0.10	1	
Aroclor 1260	**0.16**	**0.16**	0.10	1	
Aroclor 1262	ND	<0.10	0.10	1	
Aroclor 1268	ND	<0.10	0.10	1	

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Workorder: 34-1922943
Client: PBS Environmental
Project Manager: Stella Hanis

Analytical Results

Sample ID: **W-09-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943009 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

Analysis Method - SW 8082

Preparation:	EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis:	SW 8082, Wipe	Instrument ID: GCE03
Batch:	ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch:	EGC/7892 (HBN: 245748)	%Solids: NA
Prepared:	08/13/2019	Final: 10 mL	Analyzed:	08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<0.20	0.20	1	
Aroclor 1232	ND	<0.10	0.10	1	
Aroclor 1016	ND	<0.10	0.10	1	
Aroclor 1242	ND	<0.10	0.10	1	
Aroclor 1248	ND	<0.10	0.10	1	
Aroclor 1254	ND	<0.10	0.10	1	
Aroclor 1260	**1.0**	**1.0**	0.10	1	
Aroclor 1262	ND	<0.10	0.10	1	
Aroclor 1268	ND	<0.10	0.10	1	

Sample ID: **W-10-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943010 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

Analysis Method - SW 8082

Preparation:	EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis:	SW 8082, Wipe	Instrument ID: GCE03
Batch:	ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch:	EGC/7892 (HBN: 245748)	%Solids: NA
Prepared:	08/13/2019	Final: 10 mL	Analyzed:	08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<0.20	0.20	1	
Aroclor 1232	ND	<0.10	0.10	1	
Aroclor 1016	ND	<0.10	0.10	1	
Aroclor 1242	ND	<0.10	0.10	1	
Aroclor 1248	ND	<0.10	0.10	1	
Aroclor 1254	ND	<0.10	0.10	1	
Aroclor 1260	**0.64**	**0.64**	0.10	1	
Aroclor 1262	ND	<0.10	0.10	1	
Aroclor 1268	ND	<0.10	0.10	1	

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Workorder: 34-1922943
Client: PBS Environmental
Project Manager: Stella Hanis

Analytical Results

Sample ID: **W-11-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943011 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch: EGC/7892 (HBN: 245748)	%Solids: NA
Prepared: 08/13/2019	Final: 10 mL	Analyzed: 08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<0.20	0.20	1	
Aroclor 1232	ND	<0.10	0.10	1	
Aroclor 1016	ND	<0.10	0.10	1	
Aroclor 1242	ND	<0.10	0.10	1	
Aroclor 1248	ND	<0.10	0.10	1	
Aroclor 1254	ND	<0.10	0.10	1	
Aroclor 1260	ND	<0.10	0.10	1	
Aroclor 1262	ND	<0.10	0.10	1	
Aroclor 1268	ND	<0.10	0.10	1	

Sample ID: **W-12-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943012 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: Volume 100 cm²

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch: EGC/7892 (HBN: 245748)	%Solids: NA
Prepared: 08/13/2019	Final: 10 mL	Analyzed: 08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<0.20	0.20	1	
Aroclor 1232	ND	<0.10	0.10	1	
Aroclor 1016	ND	<0.10	0.10	1	
Aroclor 1242	ND	<0.10	0.10	1	
Aroclor 1248	ND	<0.10	0.10	1	
Aroclor 1254	ND	<0.10	0.10	1	
Aroclor 1260	ND	<0.10	0.10	1	
Aroclor 1262	ND	<0.10	0.10	1	
Aroclor 1268	ND	<0.10	0.10	1	

ANALYTICAL REPORT
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Workorder: 34-1922943
Client: PBS Environmental
Project Manager: Stella Hanis

Analytical Results

Sample ID: **W-13-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943013 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: NA

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch: EGC/7892 (HBN: 245748)	%Solids: NA
Prepared: 08/13/2019	Final: 10 mL	Analyzed: 08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	NA	0.20	1	
Aroclor 1232	ND	NA	0.10	1	
Aroclor 1016	ND	NA	0.10	1	
Aroclor 1242	ND	NA	0.10	1	
Aroclor 1248	ND	NA	0.10	1	
Aroclor 1254	ND	NA	0.10	1	
Aroclor 1260	ND	NA	0.10	1	
Aroclor 1262	ND	NA	0.10	1	
Aroclor 1268	ND	NA	0.10	1	

Sample ID: **W-14-2019** | Sampling Site: Sky Valley/Monroe SD | Collected: 08/08/2019
Lab ID: 1922943014 | Media: Wipe | Received: 08/12/2019
Matrix: Wipe | Sampling Parameter: NA

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	Weight/Volume	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/29138 (HBN: 245505)	Initial 1 wipe	Batch: EGC/7892 (HBN: 245748)	%Solids: NA
Prepared: 08/13/2019	Final: 10 mL	Analyzed: 08/14/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	NA	0.20	1	
Aroclor 1232	ND	NA	0.10	1	
Aroclor 1016	ND	NA	0.10	1	
Aroclor 1242	ND	NA	0.10	1	
Aroclor 1248	ND	NA	0.10	1	
Aroclor 1254	ND	NA	0.10	1	
Aroclor 1260	ND	NA	0.10	1	
Aroclor 1262	ND	NA	0.10	1	
Aroclor 1268	ND	NA	0.10	1	

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

Method	Analyst	Peer Review
SW 8082	/S/ Mila V. Potekhin 08/19/2019 14:54	/S/ Matthew Roberts 08/20/2019 18:26

ANALYTICAL REPORT
Amended-20190823

Workorder: 34-1922943
Client: PBS Environmental
Project Manager: Stella Hanis

Laboratory Contact Information

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General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
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
Environmental	PJLA (DoD ELAP)	L17-506	http://www.pjlabs.com
	PJLA (ISO 17025)	L17-507-R1	http://www.pjlabs.com
	Utah (TNI)	UT00953	http://lams.nelac-institute.org/search
	Iowa (TNI)	IA# 376	http://www.shl.uiowa.edu/labcert/idnr/
	Kansas	E-10416	http://www.kdheks.gov/envlab/disclaimer.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP)	101574	http://www.aihaaccreditedlabs.org
	DOECAP-AP	L18-606	http://www.pjlabs.com
	Washington	C596	https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Laboratory-Accreditation
Dietary Supplements	PJLA (ISO 17025)	L17-507-R1	http://www.pjlabs.com

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.
RL = Reporting Limit, a verified value of method/media/instrument sensitivity.
CRDL = Contract Required Detection Limit
Reg. Limit = Regulatory Limit.
ND = Not Detected, testing result not detected above the MDL or RL.
< Means this testing result is less than the numerical value.
** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.
J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds calibration range.
P = Qualifier indicates that the RPD between the two columns is greater than 40%.

Quality Control Sample
Batch Report

Analysis Information

Workorder: **1922943**

Limits:	Method	Preparation:	EPA 3550, Sonic Ext, Wipe	Analysis:	SW 8082
Basis:	ALS Laboratory Group	Batch:	ENVX/29138 (HBN: 245505)	Batch:	EGC/7892 (HBN: 245748)
		Prepared By:	Matthew Roberts	Analyzed By:	Mila V. Potekhin

Blank

MB: 668102
Analyzed: 08/14/2019 00:00
Units: ug/sample

Analyte	Result	MDL	RL
Aroclor 1221	ND	NA	0.200
Aroclor 1232	ND	NA	0.100
Aroclor 1016	ND	NA	0.100
Aroclor 1242	ND	NA	0.100
Aroclor 1248	ND	NA	0.100
Aroclor 1254	ND	NA	0.100
Aroclor 1260	ND	NA	0.100
Aroclor 1262	ND	NA	0.100
Aroclor 1268	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 668103
Analyzed: 08/14/2019 00:00
Dilution: 1
Units: ug/sample

LCSD: 668104
Analyzed: 08/14/2019 00:00
Dilution: 1
Units: ug/sample

Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
Aroclor 1221	3.49	4.00	87.3	30.0	170.0	3.53	88.3	1.14	0.0	35.0
Aroclor 1232	3.89	4.00	97.3	30.0	170.0	3.96	99.0	1.78	0.0	35.0
Aroclor 1016	3.64	4.00	91.0	30.0	170.0	3.67	91.8	0.821	0.0	35.0
Aroclor 1242	3.55	4.00	88.8	30.0	170.0	3.57	89.3	0.562	0.0	35.0
Aroclor 1248	3.74	4.00	93.5	30.0	170.0	3.76	94.0	0.533	0.0	35.0
Aroclor 1254	3.61	4.00	90.3	30.0	170.0	3.63	90.8	0.552	0.0	35.0
Aroclor 1260	4.06	4.00	102	30.0	170.0	4.20	105	3.39	0.0	35.0
Aroclor 1262	3.47	4.00	* 86.8			3.46	* 86.5	0.289	0.0	35.0
Aroclor 1268	3.45	4.00	86.3	30.0	170.0	3.43	85.8	0.581	0.0	35.0

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

Analyst	Peer Review
/S/ Mila V. Potekhin	/S/ Matthew Roberts
08/19/2019 14:54	08/20/2019 18:26

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