August 26, 2021

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

RE: 2021 Annual PCB Wipe Sampling
Sky Valley Educational Center
351 Short Colombia 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 and associated controls.

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) locations within the study area. The 2021 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 also collected during this activity. The wipe samples were collected to evaluate the effectiveness of the epoxy sealant that was placed over PCB residues. 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)
21-01	Gym Building – Daycare Area – West partition wall to Gathering Place	ND
21-02	Small Gym – Gym Area – West 6th Beam/brick transition	ND
21-03	North Pod– Room 17 - North Window brick/metal transition	0.82
21-04	North Pod– Room 20 - South window brick/metal transition	ND
21-05	East Pod – Room 10 – East window brick/metal transition	ND
21-06	East Pod – Room 8 - South window brick/metal transition	ND
21-07	South Pod – Room 7 - East window brick/metal transition	ND
21-08	South Pod – Room 3 - West window brick/metal transition	ND
21-09	Admin Building – Family Box - South window brick/metal transition	ND
21-10	Admin Building – West wall second office south - West window brick/metal transition	ND
21-11	Annex Building – Room E – South window brick/metal transition	3
21-12	Annex Building – Prep Room F - North window brick/metal transition	ND
21-13	Field Blank	ND
21-14	Field Blank	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.

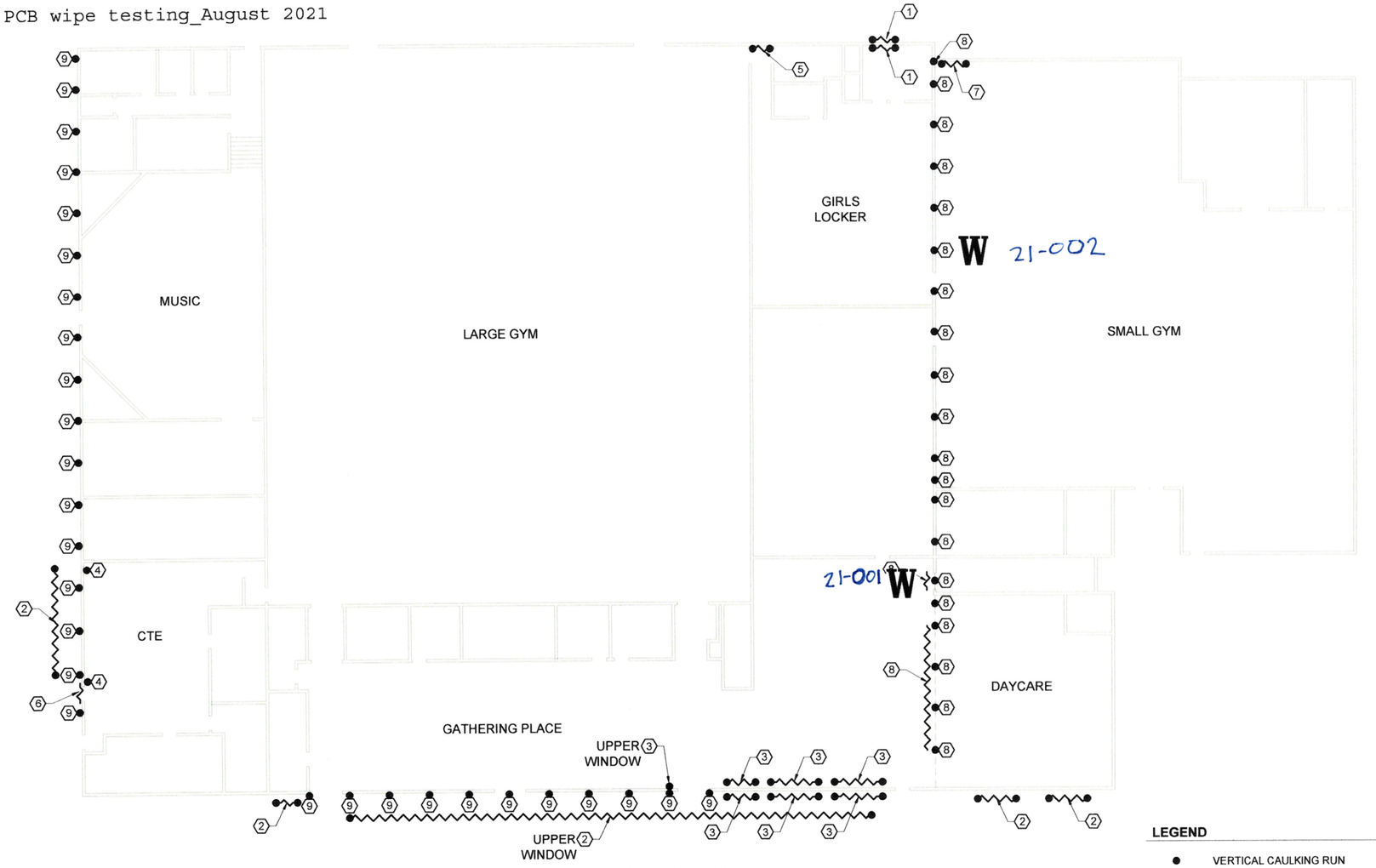


Claire Tsai
Industrial Hygiene Technician

Reviewed by: Gregg Middaugh
Senior Project Manager

Attachments: Sample location Diagrams
Surface Wipe Sample Laboratory Report

PCB wipe testing_August 2021

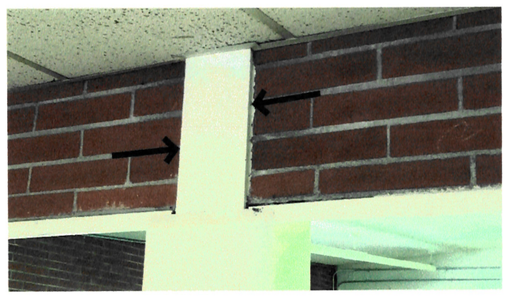


GYM BUILDING
NOT TO SCALE

W Wipe Test Sample



②⑨**PHOTO DETAIL**



⑧**PHOTO DETAIL**



⑧**PHOTO DETAIL**

LEGEND

- VERTICAL CAULKING RUN
- HORIZONTAL CAULKING RUNS

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. 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.

NOT TO SCALE

MONROE SCHOOL DISTRICT

GYM BUILDING
CAULKING ABATEMENT PLAN

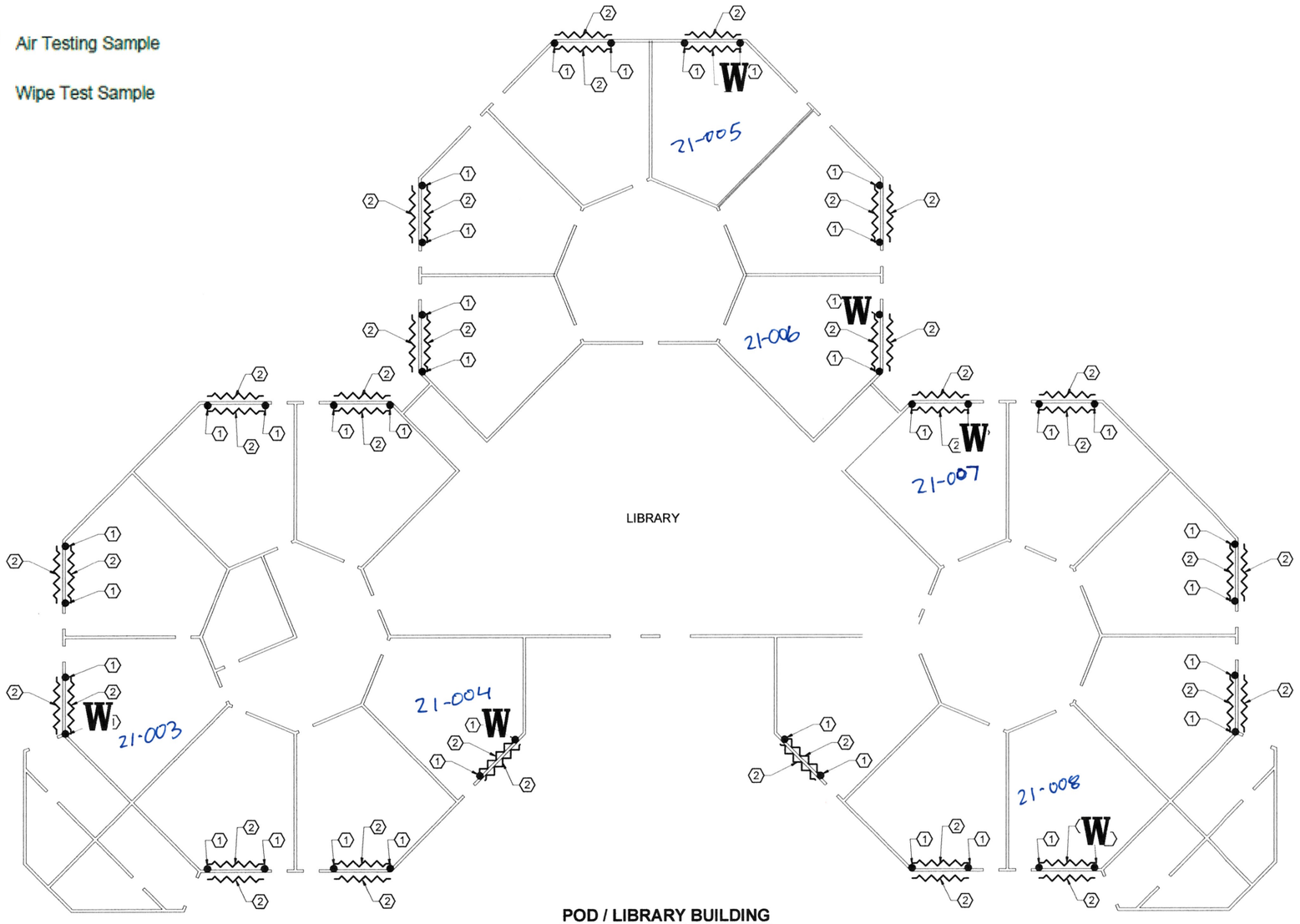
SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY EDUCATIONAL CENTER
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

PROJECT:	41373.000
DRAWN:	JHD
CHECKED:	GM
DATE:	JUNE 2016
DWG NO.	HM1
SHEET NO.	1 OF 5

Air Testing Sample

W Wipe Test Sample



POD / LIBRARY BUILDING

NOT TO SCALE

GENERAL NOTES

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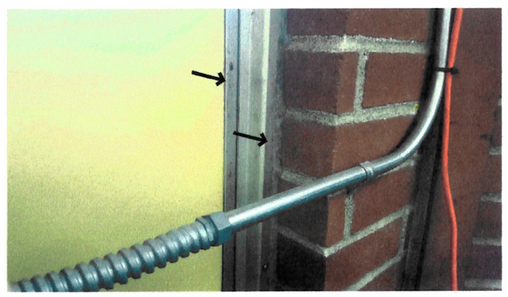
KEY NOTES

(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.

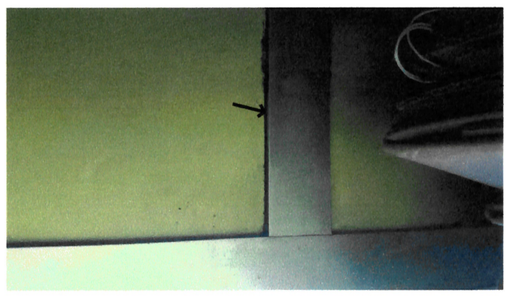
(2) REMOVE APPROX. 1,400 LF OF PCB-CONTAINING CAULKING ON THE INTERIOR AND EXTERIOR SIDES OF THE CEMENT ASBESTOS BOARD (CAB) WINDOW INFILL PANELS. THE CAULKING FILLS THE GAP BETWEEN THE METAL WINDOW FRAME AND CAB TRANSITION IN EACH OF CLASSROOMS 1-20 AS SHOWN.

LEGEND

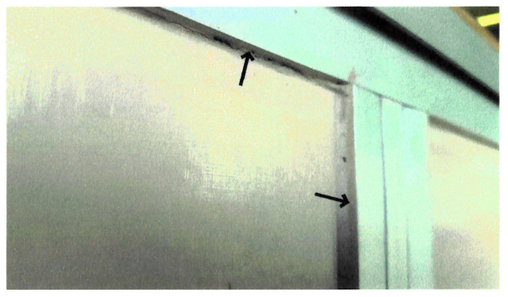
- VERTICAL CAULKING RUN
- HORIZONTAL CAULKING RUN



(1) PHOTO DETAIL



(2) PHOTO DETAIL



(2) PHOTO DETAIL

NOT TO SCALE

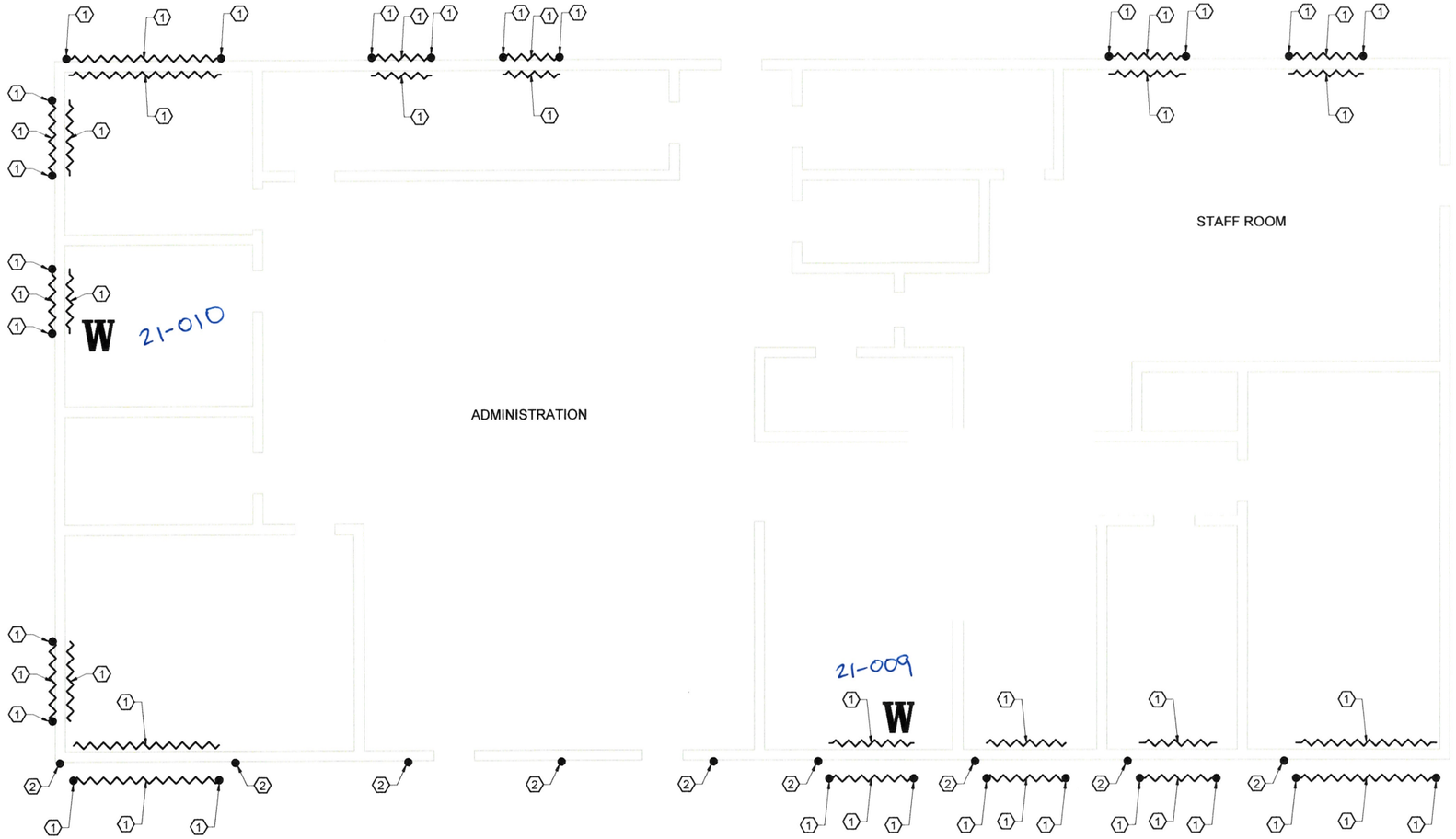
MONROE SCHOOL DISTRICT

POD/LIBRBAY BUILDING CAULKING ABATEMENT PLAN

SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY EDUCATIONAL CENTER
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

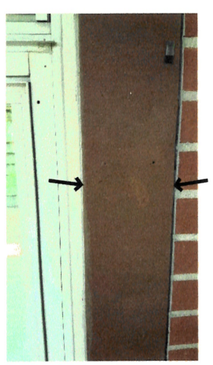
PROJECT:	41373.000
DRAWN:	JHD
CHECKED:	GM
DATE:	JUNE 2016
DWG NO.	HM2
SHEET NO.	2 OF 5



ADMIN BUILDING
NOT TO SCALE



①PHOTO DETAIL



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

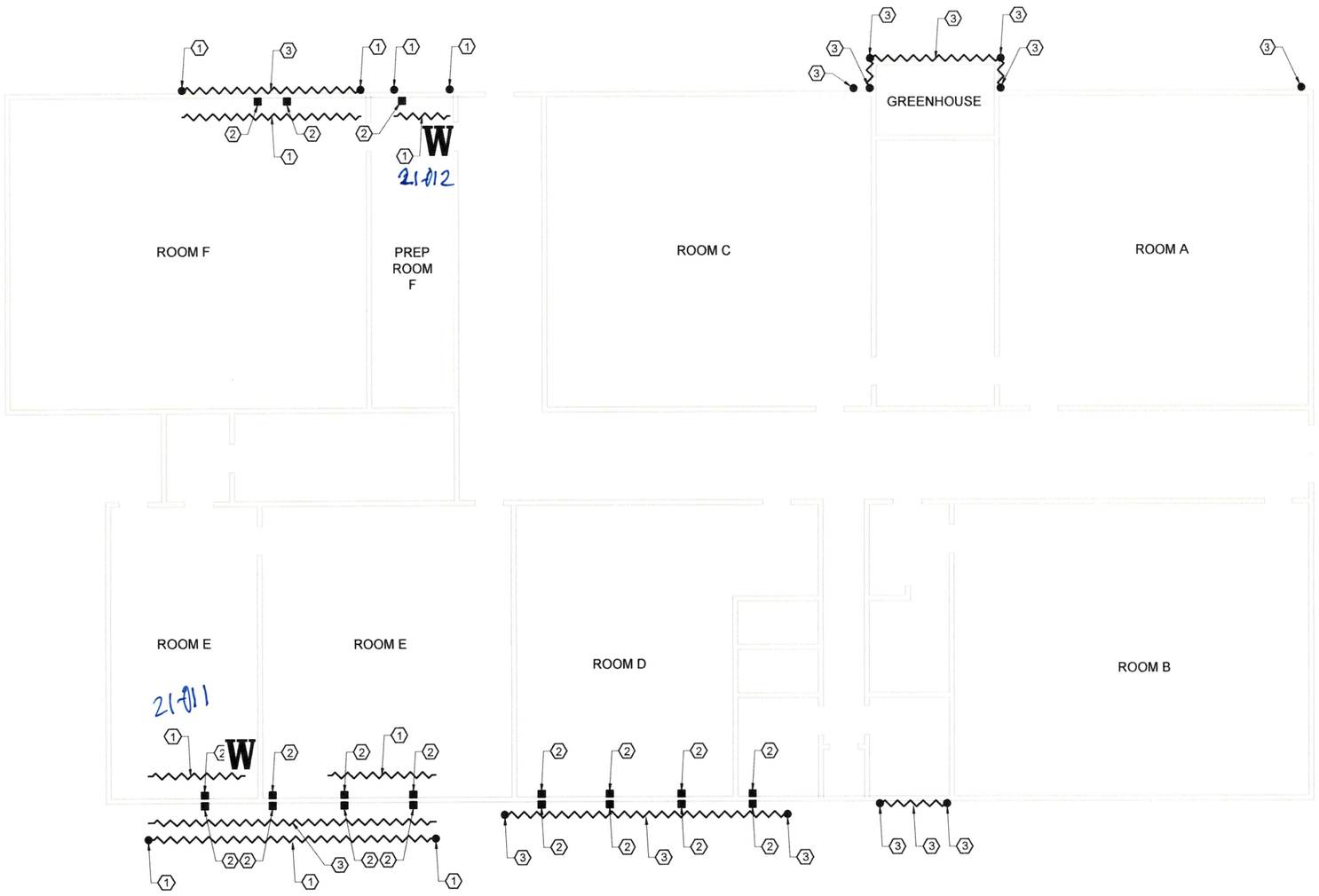
MONROE SCHOOL DISTRICT

ADMIN BUILDING CAULKING ABATEMENT PLAN

SKY VALLEY EDUCATIONAL CENTER

SKY VALLEY EDUCATIONAL CENTER
351 SHORT COLUMBIA STREET
MONROE, WASHINGTON

PROJECT:	41373.000
DRAWN:	JHD
CHECKED:	GM
DATE:	JUNE 2016
DWG NO.	HM3
SHEET NO.	3 OF 5



ANNEX BUILDING
NOT TO SCALE



①②③**PHOTO DETAIL**



②**PHOTO DETAIL**



①③**PHOTO 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. 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 2016
DWG NO.	HM4
SHEET NO.	4 OF 5

Monday, August 23, 2021

Gregg Middaugh
PBS Engineering and Environmental
214 E Galer St, Suite 300
Seattle, WA 98102

Re: ALS Workorder: 2108190
Project Name: Sky Valley IAQ
Project Number: 41373.000

Dear Mr. Middaugh:

Fourteen wipe samples were received from PBS Engineering and Environmental, on 8/11/2021. The samples were scheduled for the following analysis:

PCBs

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Katie M. OBrien
Project Manager

Accreditations: ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
California (CA)	2926
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
PJ-LA (DoD ELAP/ISO 170250)	95377
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO010992018-1
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	TN02976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

40 CFR Part 136: All analyses for Clean Water Act samples are analyzed using the 40 CFR Part 136 specified method and include all the QC requirements.

2108190

PCB:
The samples were analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082. The samples were extracted via Soxhlet Extraction SW-846 Method 3540C.

The laboratory control sample duplicate was lost during extraction. See NCR #15330. An LCSD is not a requirement per the project QAPP.

All remaining acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2108190
Client Name: PBS Engineering and Environmental
Client Project Name: Sky Valley IAQ
Client Project Number: 41373.000
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
21-01	2108190-1		WIPE	10-Aug-21	8:43
21-02	2108190-2		WIPE	10-Aug-21	8:46
21-03	2108190-3		WIPE	10-Aug-21	9:00
21-04	2108190-4		WIPE	10-Aug-21	9:10
21-05	2108190-5		WIPE	10-Aug-21	9:16
21-06	2108190-6		WIPE	10-Aug-21	9:33
21-07	2108190-7		WIPE	10-Aug-21	9:40
21-08	2108190-8		WIPE	10-Aug-21	9:47
21-09	2108190-9		WIPE	10-Aug-21	10:02
21-10	2108190-10		WIPE	10-Aug-21	10:09
21-11	2108190-11		WIPE	10-Aug-21	10:17
21-12	2108190-12		WIPE	10-Aug-21	10:26
21-13	2108190-13		WIPE	10-Aug-21	10:33
21-14	2108190-14		WIPE	10-Aug-21	10:35

ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

2108190 Chain-of-Custody

Turnaround time for samples received after 2 p.m. will be calculated beginning from the next business day.
Turnaround time for samples received Saturday will be calculated beginning from the next business day.

2108190-C

PROJECT NAME	Sky Valley IAQ	TURNAROUND TIME	Standard	SAMPLER	Claire Tsai
PROJECT No.	41373.000	SITE ID			
	Phase 16	EDD FORMAT			
COMPANY NAME	PBS Engineering & Environmental	PURCHASE ORDER			
SEND REPORT TO	Gregg Middaugh	BILL TO COMPANY	← same		
ADDRESS	214 E Baker St Suite 300	INVOICE ATTN TO			
CITY / STATE / ZIP	Seattle WA 98102	ADDRESS			
PHONE	206 2339639	CITY / STATE / ZIP			
FAX		PHONE			
E-MAIL	Gregg.Middaugh@pbsusa.com	FAX			
	Claire.Tsai@pbsusa.com	E-MAIL	seattleap@pbsusa.com		

PAGE 1 of 2

DISPOSAL BY LAB or RETURN

PARAMETER/METHOD REQUEST FOR ANALYSIS

A	
B	
C	
D	
E	
F	
G	
H	
I	
J	

LAB ID	FIELD ID	MATRIX	SAMPLE DATE	SAMPLE TIME	# OF BOTTLES	PRESERVATIVE	QC	A	B	C	D	E	F	G	H	I	J	SEE NOTES SECTION
1	21-01	surface	8/10/21	843AM	1	7												
2	21-02	"	"	846AM	1	7												
3	21-03	"	"	900AM	1	7												
4	21-04	"	"	910AM	1	7												
5	21-05	"	"	916AM	1	7												
6	21-06	"	"	933AM	1	7												
7	21-07	"	"	940AM	1	7												
8	21-08	"	"	947AM	1	7												
9	21-09	"	"	1002AM	1	7												
10	21-10	"	"	1009AM	1	7												
11	21-11	"	"	1017AM	1	7												
12	21-12	"	"	1026AM	1	7												

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

NOTES

PCB EPA 3540/8082
Surface Area 100cm²

5 of 24

REPORT LEVEL / QC REQUIRED	
	Summary (Standard QC)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw

PRESERVATION KEY: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaOH/ZnAcetate 6-NaHSO4 7-4°C 8-Other

Form 202r9

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Claire Tsai	Claire Tsai	8/10/21	1:30
RECEIVED BY	Claire Thennes	Claire Thennes	8/11/21	8:30
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Turnaround time for samples received after 2 p.m. will be calculated beginning from the next business day.
Turnaround time for samples received Saturday will be calculated beginning from the next business day.

ALS WORKORDER # # 2108190

TURNAROUND TIME	Standard	SAMPLER	Claire Tsai	PAGE	2 of 2
SITE ID				DISPOSAL	BY LAB or RETURN
EDD FORMAT				PARAMETER/METHOD REQUEST FOR ANALYSIS	
PURCHASE ORDER				A	
BILL TO COMPANY				B	
INVOICE ATTN TO	Same as page 1			C	
ADDRESS				D	
CITY / STATE / ZIP				E	
PHONE				F	
FAX				G	
E-MAIL				H	
				I	
				J	

PROJECT NAME	Sky Valley IAQ
PROJECT No.	41373.000 Phase 16
COMPANY NAME	
SEND REPORT TO	Same as page 1
ADDRESS	
CITY / STATE / ZIP	
PHONE	
FAX	
E-MAIL	

LAB ID	FIELD ID	MATRIX	SAMPLE DATE	SAMPLE TIME	# OF BOTTLES	PRESERVATIVE	QC	A	B	C	D	E	F	G	H	I	J	SEE NOTES SECTION
13	21-13	Surface	8/10/21	1033	1	7												
14	21-14	" "	" "	1035	1	7												

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

NOTES

PCB EPA 3540/8082

6 of 24

REPORT LEVEL / QC REQUIRED	
	Summary (Standard QC)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw

PRESERVATION KEY: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaOH/ZnAcetate 6-NaHSO4 7-4°C 8-Other

Form 202r9

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Claire Tsai	Claire Tsai	8/10/21	1:30
RECEIVED BY	Claire Thennes	Claire Thennes	8/11/21	8:30
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: PBS Workorder No: 2108190

Project Manager: KMO Initials: CXT Date: 8/11/21

	N/A	YES	NO
1. Are airbills / shipping documents present and/or removable?		X	
Tracking number: 1Z 155 T8T 15 9549 2606			
2. Are custody seals on shipping containers intact?		X	
3. Are custody seals on sample containers intact?	X		
4. Is there a COC (chain-of-custody) present?		X	
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)		X	
6. Are short-hold samples present?			X
7. Are all samples within holding times for the requested analyses?		X	
8. Were all sample containers received intact? (not broken or leaking)		X	
9. Is there sufficient sample for the requested analyses?		X	
10. Are samples in proper containers for requested analyses? (form 250, *Sample Handling Guidelines*)		X	
11. Are all aqueous samples preserved correctly, if required? (excluding volatiles)	X		
12. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)	X		
13. Were the samples shipped on ice?		X	
14. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #5	RAD ONLY	X	

Cooler #:	1						
Temperature (°C):	4.9						
# of custody seals on cooler:	1						
External µR/hr reading:	13						
Background µR/hr reading:	12						

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? NA (If no, see Form 008.)

* Please provide details here for NO responses to boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

Were unpreserved bottles pH checked? NA All client bottle ID's vs ALS lab ID's double-checked by: CT

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: 8/11/21

Form 201r30.xls
03/18/2021

*IR Gun #5, VWR SN 192272629

Client:	PBS Engineering and Environmental	**Date:**	*23-Aug-21*
Project:	41373.000 Sky Valley IAQ	**Work Order:**	2108190
Sample ID:	21-01	**Lab ID:**	2108190-1
Legal Location:		**Matrix:**	WIPE
Collection Date:	8/10/2021 08:43	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 18:29
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 18:29
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 18:29
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 18:29
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 18:29
AROCLOR-1254	ND		0.5	UG/sample	1	8/17/2021 18:29
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 18:29
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 18:29
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 18:29
TOTAL PCB	ND		0.5	UG/sample	1	8/17/2021 18:29
Surr: TETRACHLORO-M-XYLENE	*90*		*69-129*	*%REC*	1	8/17/2021 18:29
Surr: DECACHLOROBIPHENYL	*76*		*55-135*	*%REC*	1	8/17/2021 18:29

Client:	PBS Engineering and Environmental	**Date:**	*23-Aug-21*
Project:	41373.000 Sky Valley IAQ	**Work Order:**	2108190
Sample ID:	21-02	**Lab ID:**	2108190-2
Legal Location:		**Matrix:**	WIPE
Collection Date:	8/10/2021 08:46	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 18:48
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 18:48
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 18:48
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 18:48
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 18:48
AROCLOR-1254	ND		0.5	UG/sample	1	8/17/2021 18:48
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 18:48
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 18:48
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 18:48
TOTAL PCB	ND		0.5	UG/sample	1	8/17/2021 18:48
Surr: TETRACHLORO-M-XYLENE	*96*		*69-129*	*%REC*	1	8/17/2021 18:48
Surr: DECACHLOROBIPHENYL	*80*		*55-135*	*%REC*	1	8/17/2021 18:48

Client:	PBS Engineering and Environmental	**Date:**	*23-Aug-21*
Project:	41373.000 Sky Valley IAQ	**Work Order:**	2108190
Sample ID:	21-03	**Lab ID:**	2108190-3
Legal Location:		**Matrix:**	WIPE
Collection Date:	8/10/2021 09:00	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 19:07
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 19:07
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 19:07
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 19:07
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 19:07
AROCLOR-1254	**0.82**		**0.5**	**UG/sample**	1	8/17/2021 19:07
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 19:07
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 19:07
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 19:07
TOTAL PCB	**0.82**		**0.5**	**UG/sample**	**1**	8/17/2021 19:07
Surr: TETRACHLORO-M-XYLENE	*105*		*69-129*	*%REC*	1	8/17/2021 19:07
Surr: DECACHLOROBIPHENYL	*82*		*55-135*	*%REC*	1	8/17/2021 19:07

Client:	PBS Engineering and Environmental	**Date:**	*23-Aug-21*
Project:	41373.000 Sky Valley IAQ	**Work Order:**	2108190
Sample ID:	21-04	**Lab ID:**	2108190-4
Legal Location:		**Matrix:**	WIPE
Collection Date:	8/10/2021 09:10	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 19:26
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 19:26
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 19:26
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 19:26
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 19:26
AROCLOR-1254	ND		0.5	UG/sample	1	8/17/2021 19:26
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 19:26
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 19:26
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 19:26
TOTAL PCB	ND		0.5	UG/sample	1	8/17/2021 19:26
Surr: TETRACHLORO-M-XYLENE	*102*		*69-129*	*%REC*	1	8/17/2021 19:26
Surr: DECACHLOROBIPHENYL	*84*		*55-135*	*%REC*	1	8/17/2021 19:26

Client:	PBS Engineering and Environmental	**Date:**	*23-Aug-21*
Project:	41373.000 Sky Valley IAQ	**Work Order:**	2108190
Sample ID:	21-05	**Lab ID:**	2108190-5
Legal Location:		**Matrix:**	WIPE
Collection Date:	8/10/2021 09:16	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 19:44
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 19:44
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 19:44
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 19:44
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 19:44
AROCLOR-1254	ND		0.5	UG/sample	1	8/17/2021 19:44
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 19:44
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 19:44
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 19:44
TOTAL PCB	ND		0.5	UG/sample	1	8/17/2021 19:44
Surr: TETRACHLORO-M-XYLENE	*98*		*69-129*	*%REC*	1	8/17/2021 19:44
Surr: DECACHLOROBIPHENYL	*82*		*55-135*	*%REC*	1	8/17/2021 19:44

Client: PBS Engineering and Environmental
Project: 41373.000 Sky Valley IAQ
Sample ID: 21-06
Legal Location:
Collection Date: 8/10/2021 09:33

Date: *23-Aug-21*
Work Order: 2108190
Lab ID: 2108190-6
Matrix: WIPE
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 20:03
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 20:03
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 20:03
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 20:03
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 20:03
AROCLOR-1254	ND		0.5	UG/sample	1	8/17/2021 20:03
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 20:03
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 20:03
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 20:03
TOTAL PCB	ND		0.5	UG/sample	1	8/17/2021 20:03
Surr: TETRACHLORO-M-XYLENE	*103*		*69-129*	*%REC*	1	8/17/2021 20:03
Surr: DECACHLOROBIPHENYL	*81*		*55-135*	*%REC*	1	8/17/2021 20:03

Client:	PBS Engineering and Environmental	**Date:**	*23-Aug-21*
Project:	41373.000 Sky Valley IAQ	**Work Order:**	2108190
Sample ID:	21-07	**Lab ID:**	2108190-7
Legal Location:		**Matrix:**	WIPE
Collection Date:	8/10/2021 09:40	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 20:22
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 20:22
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 20:22
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 20:22
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 20:22
AROCLOR-1254	ND		0.5	UG/sample	1	8/17/2021 20:22
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 20:22
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 20:22
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 20:22
TOTAL PCB	ND		0.5	UG/sample	1	8/17/2021 20:22
Surr: TETRACHLORO-M-XYLENE	*101*		*69-129*	*%REC*	1	8/17/2021 20:22
Surr: DECACHLOROBIPHENYL	*85*		*55-135*	*%REC*	1	8/17/2021 20:22

Client: PBS Engineering and Environmental
Project: 41373.000 Sky Valley IAQ
Sample ID: 21-08
Legal Location:
Collection Date: 8/10/2021 09:47

Date: *23-Aug-21*
Work Order: 2108190
Lab ID: 2108190-8
Matrix: WIPE
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 20:41
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 20:41
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 20:41
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 20:41
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 20:41
AROCLOR-1254	ND		0.5	UG/sample	1	8/17/2021 20:41
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 20:41
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 20:41
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 20:41
TOTAL PCB	ND		0.5	UG/sample	1	8/17/2021 20:41
Surr: TETRACHLORO-M-XYLENE	*106*		*69-129*	*%REC*	1	8/17/2021 20:41
Surr: DECACHLOROBIPHENYL	*83*		*55-135*	*%REC*	1	8/17/2021 20:41

Client:	PBS Engineering and Environmental	**Date:**	*23-Aug-21*
Project:	41373.000 Sky Valley IAQ	**Work Order:**	2108190
Sample ID:	21-09	**Lab ID:**	2108190-9
Legal Location:		**Matrix:**	WIPE
Collection Date:	8/10/2021 10:02	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 20:59
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 20:59
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 20:59
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 20:59
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 20:59
AROCLOR-1254	ND		0.5	UG/sample	1	8/17/2021 20:59
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 20:59
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 20:59
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 20:59
TOTAL PCB	ND		0.5	UG/sample	1	8/17/2021 20:59
Surr: TETRACHLORO-M-XYLENE	*95*		*69-129*	*%REC*	1	8/17/2021 20:59
Surr: DECACHLOROBIPHENYL	*77*		*55-135*	*%REC*	1	8/17/2021 20:59

Client:	PBS Engineering and Environmental	**Date:**	*23-Aug-21*
Project:	41373.000 Sky Valley IAQ	**Work Order:**	2108190
Sample ID:	21-10	**Lab ID:**	2108190-10
Legal Location:		**Matrix:**	WIPE
Collection Date:	8/10/2021 10:09	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 21:18
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 21:18
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 21:18
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 21:18
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 21:18
AROCLOR-1254	ND		0.5	UG/sample	1	8/17/2021 21:18
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 21:18
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 21:18
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 21:18
TOTAL PCB	ND		0.5	UG/sample	1	8/17/2021 21:18
Surr: TETRACHLORO-M-XYLENE	*97*		*69-129*	*%REC*	1	8/17/2021 21:18
Surr: DECACHLOROBIPHENYL	*74*		*55-135*	*%REC*	1	8/17/2021 21:18

Client:	PBS Engineering and Environmental	**Date:**	*23-Aug-21*
Project:	41373.000 Sky Valley IAQ	**Work Order:**	2108190
Sample ID:	21-11	**Lab ID:**	2108190-11
Legal Location:		**Matrix:**	WIPE
Collection Date:	8/10/2021 10:17	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 21:37
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 21:37
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 21:37
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 21:37
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 21:37
AROCLOR-1254	**3**		**0.5**	**UG/sample**	1	8/17/2021 21:37
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 21:37
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 21:37
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 21:37
TOTAL PCB	**3**		**0.5**	**UG/sample**	**1**	8/17/2021 21:37
Surr: TETRACHLORO-M-XYLENE	*99*		*69-129*	*%REC*	1	8/17/2021 21:37
Surr: DECACHLOROBIPHENYL	*79*		*55-135*	*%REC*	1	8/17/2021 21:37

Client:	PBS Engineering and Environmental	**Date:**	*23-Aug-21*
Project:	41373.000 Sky Valley IAQ	**Work Order:**	2108190
Sample ID:	21-12	**Lab ID:**	2108190-12
Legal Location:		**Matrix:**	WIPE
Collection Date:	8/10/2021 10:26	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 21:55
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 21:55
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 21:55
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 21:55
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 21:55
AROCLOR-1254	ND		0.5	UG/sample	1	8/17/2021 21:55
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 21:55
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 21:55
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 21:55
TOTAL PCB	ND		0.5	UG/sample	1	8/17/2021 21:55
Surr: TETRACHLORO-M-XYLENE	*109*		*69-129*	*%REC*	1	8/17/2021 21:55
Surr: DECACHLOROBIPHENYL	*82*		*55-135*	*%REC*	1	8/17/2021 21:55

Client:	PBS Engineering and Environmental	**Date:**	*23-Aug-21*
Project:	41373.000 Sky Valley IAQ	**Work Order:**	2108190
Sample ID:	21-13	**Lab ID:**	2108190-13
Legal Location:		**Matrix:**	WIPE
Collection Date:	8/10/2021 10:33	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 22:14
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 22:14
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 22:14
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 22:14
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 22:14
AROCLOR-1254	ND		0.5	UG/sample	1	8/17/2021 22:14
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 22:14
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 22:14
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 22:14
TOTAL PCB	ND		0.5	UG/sample	1	8/17/2021 22:14
Surr: TETRACHLORO-M-XYLENE	*98*		*69-129*	*%REC*	1	8/17/2021 22:14
Surr: DECACHLOROBIPHENYL	*80*		*55-135*	*%REC*	1	8/17/2021 22:14

Client:	PBS Engineering and Environmental	**Date:**	*23-Aug-21*
Project:	41373.000 Sky Valley IAQ	**Work Order:**	2108190
Sample ID:	21-14	**Lab ID:**	2108190-14
Legal Location:		**Matrix:**	WIPE
Collection Date:	8/10/2021 10:35	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		**SW8082**		Prep Date: **8/13/2021**		PrepBy: **CPC**
AROCLOR-1016	ND		0.5	UG/sample	1	8/17/2021 22:33
AROCLOR-1221	ND		0.5	UG/sample	1	8/17/2021 22:33
AROCLOR-1232	ND		0.5	UG/sample	1	8/17/2021 22:33
AROCLOR-1242	ND		0.5	UG/sample	1	8/17/2021 22:33
AROCLOR-1248	ND		0.5	UG/sample	1	8/17/2021 22:33
AROCLOR-1254	ND		0.5	UG/sample	1	8/17/2021 22:33
AROCLOR-1260	ND		0.5	UG/sample	1	8/17/2021 22:33
AROCLOR-1262	ND		0.5	UG/sample	1	8/17/2021 22:33
AROCLOR-1268	ND		0.5	UG/sample	1	8/17/2021 22:33
TOTAL PCB	ND		0.5	UG/sample	1	8/17/2021 22:33
Surr: TETRACHLORO-M-XYLENE	*102*		*69-129*	*%REC*	1	8/17/2021 22:33
Surr: DECACHLOROBIPHENYL	*81*		*55-135*	*%REC*	1	8/17/2021 22:33

Client:	PBS Engineering and Environmental	**Date:**	*23-Aug-21*
Project:	41373.000 Sky Valley IAQ	**Work Order:**	2108190
Sample ID:	21-14	**Lab ID:**	2108190-14
Legal Location:		**Matrix:**	WIPE
Collection Date:	8/10/2021 10:35	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
G - Sample density differs by more than 15% of LCS density.
D - DER is greater than Control Limit

M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

Batch ID: **EX210813-2-1** Instrument ID: **Pest-1** Method: **SW8082**

LCS Sample ID: **EX210813-2** Units: **UG/sample** Analysis Date: **8/17/2021 17:29**

Client ID: Run ID: **PT210817-11** Prep Date: **8/13/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
AROCLOR-1016	0.123	0.0167	0.133		92	80-120				50	
AROCLOR-1260	0.117	0.0167	0.133		88	80-125				50	
Surr: TETRACHLORO-M-XYLENE	0.0168		0.0167		101	69-129					
Surr: DECACHLOROBIPHENYL	0.0139		0.0167		84	55-135					

MB Sample ID: **EX210813-2** Units: **UG/sample** Analysis Date: **8/17/2021 17:10**

Client ID: Run ID: **PT210817-11** Prep Date: **8/13/2021** DF: **1**

Analyte	Result	ReportLimit	Qual
AROCLOR-1016	ND	0.017	
AROCLOR-1221	ND	0.017	
AROCLOR-1232	ND	0.017	
AROCLOR-1242	ND	0.017	
AROCLOR-1248	ND	0.017	
AROCLOR-1254	ND	0.017	
AROCLOR-1260	ND	0.017	
AROCLOR-1262	ND	0.017	
AROCLOR-1268	ND	0.017	
TOTAL PCB	ND	0.017	
Surr: TETRACHLORO-M-XYLENE	0.0146	88 69-129	
Surr: DECACHLOROBIPHENYL	0.0124	74 55-135	

The following samples were analyzed in this batch:

2108190-1	2108190-2	2108190-3
2108190-4	2108190-5	2108190-6
2108190-7	2108190-8	2108190-9
2108190-10	2108190-11	2108190-12
2108190-13	2108190-14	

Ft. Collins, Colorado

CONTROLLED
NON-CONFORMANCE REPORT

Non-Conformance

Initiated By: Chris P. Casillas on 8/18/2021

Event Type: Lab QC Criteria Not Met -- LCS

Event Explanation: Concentrator tube containing LCSD cracked and broke during KD process, resulting in LCSD being lost.

Action To Prevent Reccurence: Inspect glassware for any fractures that could lead to shattering.

Corrective Action

Corrective Action:

Department Manager Approval:

Approval Date:

Corrective Action Comments:

Workorders Affected

Workorder -- Procedure		Approved By	Approval Date
2108190 -- SW3540	No client contact information.	PENDING	

Associated Batches

The samples were originally associated with the following Batch(es):

EX210813-2 created on 8/13/2021

All rework was completed in the following Batch(es):

Not Applicable

NCR Approval

Project Manager Approval:

Department Manager Approval:

QA Manager Approval:

225 Commerce Drive Ft. Collins, Colorado 80524

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