



January 25, 2019

Santa Monica-Malibu Unified School District
Facilities Improvement Projects
2828 4th Street
Santa Monica, California 90405

Attention: Carey Upton

**Re: PCB Wipe and Air Sampling Results
Malibu High School, Building D, Rooms 120 (Workroom), Copy Room, 101A, 101B**

1 PROJECT BACKGROUND

Alta Environmental (Alta) conducted full-time monitoring and observation during the removal of flooring material containing polychlorinated biphenyls (PCBs) within Building D in Room 120 (Workroom), the Copy Room and Rooms 101A and 101B (herein identified as "Site").

2 PROJECT OBSERVATIONS

Flooring Removal Work Activities

Alta observed Karcher Environmental, Inc. (Karcher) conduct removal activities for PCB-containing source material (flooring and adhesive) at the Site. To facilitate safe removal activities, a full containment work area was established which included critical barriers, three-stage worker decontamination facility, and a temporary negative pressure differential. The removal was completed by HAZWOPER trained technicians using manual means and wet methods.

Karcher and Alta field personnel performed a final visual inspection of the work area once the visible flooring material and associated adhesives were removed. The area was found to be acceptably free of PCB source material.

Following inspection of the work area, Karcher applied the specified epoxy floor coating in accordance with the approved work plan. The final coat of the epoxy was applied on December 27, 2018. After an appropriate cure time, Alta collected an initial set of wipe samples in order to clear the work area for future restoration activities. This sampling was conducted on December 31, 2018 and the samples met the criteria established for releasing the work area for restorative work.

In accordance with approved project documents, Alta collected both wipe and air samples inside the Room 120 (workroom), the Copy Room and Rooms 101A and 101B once the restoration work was completed. This sampling was conducted on January 19, 2019. All air and wipe samples collected were reported below the EPA's recommended re-occupancy screening-levels.

Alta Environmental

3777 Long Beach Boulevard Annex Building Long Beach CA 90807 United States of America
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3 CONCLUSIONS

All PCB related work was completed in accordance with the PCB Removal/Remediation Procedures (SMSD-18-8154) prepared by Alta for this project.

4 SIGNATORY

Respectfully submitted by:

Alta Environmental

A handwritten signature in blue ink, appearing to read "DAVE SCHACK".

David Schack
VP, Building Science

Attachments:

Air and Wipe inventory
Analytical Laboratory Reports
Chain of Custody Documentation

Summary of Building D Air Sampling Results

CLIENT: SMMUSD
PROJECT NO: SMSD-18-8154
PROJECT: Malibu High School - Building D Flood
Date: 1/19/19 - 1/20/19

Building	Room Placard ID	Floor Plan Room ID	Room Description	Sampling Date ^[a]	Sample ID	Total PCBs (ng/m ³)
D	NA	NA	120	1/19/2019	011919-SF01	ND(<28)
D	NA	NA	Copy Room	1/19/2019	011919-SF02	ND(<28)
D	NA	NA	101A	1/19/2019	011919-SF03	ND(<28)
D	NA	NA	101A Backroom	1/19/2019	011919-SF04	ND(<28)
D	NA	NA	101B	1/19/2019	011919-SF05	ND(<28)
D	NA	NA	Ambient	1/19/2019	011919-SF06	ND(<28)
Field Blank				1/19/2019	011919-SF07	ND(<28)

Notes:

[a] Air samples were collected over a 24-hour period with the lights on, windows and door closed, and ventilation off (start date listed).

Abbreviations:

ng/m3 = nanograms per cubic meter

NA = not applicable

ND = compound was not detected above the laboratory reporting limit

PCB = polychlorinated biphenyl

Summary of Building D Flood Wipe Sampling Results

CLIENT: SMMUSD
PROJECT: SMSD-18-8154
PROJECT: Malibu High School - Building D Flood
Date: 01-19-19

Building	Background or Clearance	Sample Location	Component	Surface Area (cm ²)	Interior or Exterior	Sampling Date	Sample ID	Total PCB Surface Wipe Concentration (µg/100cm ²)
D	Clearance	Approximately center of room; Room D120	Vinyl Flooring	100	Interior	1/19/2019	011919-SF01	ND (<0.10)
D	Clearance	Approximately center of room; Copy Room	Vinyl Flooring	100	Interior	1/19/2019	011919-SF02	ND (<0.10)
D	Clearance	Approximately center of room; Room 101A	Vinyl Flooring	100	Interior	1/19/2019	011919-SF03	ND (<0.10)
D	Clearance	Approximately center of room; Room 101A backroom	Vinyl Flooring	100	Interior	1/19/2019	011919-SF04	ND (<0.10)
D	Clearance	Approximately center of room; Room 101B	Vinyl Flooring	100	Interior	1/19/2019	011919-SF05	ND (<0.10)
Field Blank						1/19/2019	011919-SF06	ND (<0.10)

Notes:

1. Duplicate samples were collected adjacent to the primary sample.
2. Replicate samples were collected in the same location as the primary sample, after the primary sample was collected.
3. Sample ID key: 120218 (Date) - SF01 (Sample Code)

Abbreviations:

µg/100cm² = microgram per 100 square centimeters

ND = not detected above the reporting limit

PCB = polychlorinated biphenyl



ANALYTICAL REPORT

Report Date: January 25, 2019

Scott Fan
ALTA Environmental
3777 Long Beach Blvd.
Long Beach, CA 90807

Phone: (562) 495-5777

E-mail: Scott.Fan@altaenviron.com

Workorder: **34-1902240**

Project ID: MHS 011919

Purchase Order: NA

Project Manager Paul E. Pope

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
011919-SF01	1902240001	01/19/19	01/22/19	MHS
011919-SF02	1902240002	01/19/19	01/22/19	MHS
011919-SF03	1902240003	01/19/19	01/22/19	MHS
011919-SF04	1902240004	01/19/19	01/22/19	MHS
011919-SF05	1902240005	01/19/19	01/22/19	MHS
011919-SF06	1902240006	01/19/19	01/22/19	MHS
011919-SF07	1902240007	01/19/19	01/22/19	MHS

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Environmental

www.alsglobal.com

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ANALYTICAL REPORT

Workorder: **34-1902240**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 011919-SF01	Sampling Site: MHS	Collected: 01/19/2019
Lab ID: 1902240001	Media: PUF Tube	Received: 01/22/2019
Matrix: Air	Sampling Parameter: Air Volume 7200 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/28258 (HBN: 231478)	Initial: 1 filter	Batch: EGC/7641 (HBN: 231637)	Percent Solid: NA
Prepared: 01/22/2019	Final: 10 mL	Analyzed: 01/23/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ng/m ³)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<28	0.20	1	
Aroclor 1232	ND	<14	0.10	1	
Aroclor 1016	ND	<14	0.10	1	
Aroclor 1242	ND	<14	0.10	1	
Aroclor 1248	ND	<14	0.10	1	
Aroclor 1254	ND	<14	0.10	1	
Aroclor 1260	ND	<14	0.10	1	
Aroclor 1262	ND	<14	0.10	1	
Aroclor 1268	ND	<14	0.10	1	

Sample ID: 011919-SF02	Sampling Site: MHS	Collected: 01/19/2019
Lab ID: 1902240002	Media: PUF Tube	Received: 01/22/2019
Matrix: Air	Sampling Parameter: Air Volume 7207.2 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/28258 (HBN: 231478)	Initial: 1 filter	Batch: EGC/7641 (HBN: 231637)	Percent Solid: NA
Prepared: 01/22/2019	Final: 10 mL	Analyzed: 01/23/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ng/m ³)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<28	0.20	1	
Aroclor 1232	ND	<14	0.10	1	
Aroclor 1016	ND	<14	0.10	1	
Aroclor 1242	ND	<14	0.10	1	
Aroclor 1248	ND	<14	0.10	1	
Aroclor 1254	ND	<14	0.10	1	
Aroclor 1260	ND	<14	0.10	1	
Aroclor 1262	ND	<14	0.10	1	
Aroclor 1268	ND	<14	0.10	1	



ANALYTICAL REPORT

Workorder: **34-1902240**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 011919-SF03	Sampling Site: MHS	Collected: 01/19/2019
Lab ID: 1902240003	Media: PUF Tube	Received: 01/22/2019
Matrix: Air	Sampling Parameter: Air Volume 7200 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/28258 (HBN: 231478)	Initial: 1 filter	Batch: EGC/7641 (HBN: 231637)	Percent Solid: NA
Prepared: 01/22/2019	Final: 10 mL	Analyzed: 01/23/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ng/m ³)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<28	0.20	1	
Aroclor 1232	ND	<14	0.10	1	
Aroclor 1016	ND	<14	0.10	1	
Aroclor 1242	ND	<14	0.10	1	
Aroclor 1248	ND	<14	0.10	1	
Aroclor 1254	ND	<14	0.10	1	
Aroclor 1260	ND	<14	0.10	1	
Aroclor 1262	ND	<14	0.10	1	
Aroclor 1268	ND	<14	0.10	1	

Sample ID: 011919-SF04	Sampling Site: MHS	Collected: 01/19/2019
Lab ID: 1902240004	Media: PUF Tube	Received: 01/22/2019
Matrix: Air	Sampling Parameter: Air Volume 7200 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/28258 (HBN: 231478)	Initial: 1 filter	Batch: EGC/7641 (HBN: 231637)	Percent Solid: NA
Prepared: 01/22/2019	Final: 10 mL	Analyzed: 01/23/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ng/m ³)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<28	0.20	1	
Aroclor 1232	ND	<14	0.10	1	
Aroclor 1016	ND	<14	0.10	1	
Aroclor 1242	ND	<14	0.10	1	
Aroclor 1248	ND	<14	0.10	1	
Aroclor 1254	ND	<14	0.10	1	
Aroclor 1260	ND	<14	0.10	1	
Aroclor 1262	ND	<14	0.10	1	
Aroclor 1268	ND	<14	0.10	1	



ANALYTICAL REPORT

Workorder: **34-1902240**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 011919-SF05	Sampling Site: MHS	Collected: 01/19/2019
Lab ID: 1902240005	Media: PUF Tube	Received: 01/22/2019
Matrix: Air	Sampling Parameter: Air Volume 7192.8 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/28258 (HBN: 231478)	Initial: 1 filter	Batch: EGC/7641 (HBN: 231637)	Percent Solid: NA
Prepared: 01/22/2019	Final: 10 mL	Analyzed: 01/23/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ng/m ³)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<28	0.20	1	
Aroclor 1232	ND	<14	0.10	1	
Aroclor 1016	ND	<14	0.10	1	
Aroclor 1242	ND	<14	0.10	1	
Aroclor 1248	ND	<14	0.10	1	
Aroclor 1254	ND	<14	0.10	1	
Aroclor 1260	ND	<14	0.10	1	
Aroclor 1262	ND	<14	0.10	1	
Aroclor 1268	ND	<14	0.10	1	

Sample ID: 011919-SF06	Sampling Site: MHS	Collected: 01/19/2019
Lab ID: 1902240006	Media: PUF Tube	Received: 01/22/2019
Matrix: Air	Sampling Parameter: Air Volume 7200 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/28258 (HBN: 231478)	Initial: 1 filter	Batch: EGC/7641 (HBN: 231637)	Percent Solid: NA
Prepared: 01/22/2019	Final: 10 mL	Analyzed: 01/23/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ng/m ³)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<28	0.20	1	
Aroclor 1232	ND	<14	0.10	1	
Aroclor 1016	ND	<14	0.10	1	
Aroclor 1242	ND	<14	0.10	1	
Aroclor 1248	ND	<14	0.10	1	
Aroclor 1254	ND	<14	0.10	1	
Aroclor 1260	ND	<14	0.10	1	
Aroclor 1262	ND	<14	0.10	1	
Aroclor 1268	ND	<14	0.10	1	



ANALYTICAL REPORT

Workorder: **34-1902240**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 011919-SF07	Sampling Site: MHS	Collected: 01/19/2019
Lab ID: 1902240007	Media: PUF Tube	Received: 01/22/2019
Matrix: Air	Sampling Parameter: NA	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/28258 (HBN: 231478)	Initial: 1 filter	Batch: EGC/7641 (HBN: 231637)	Percent Solid: NA
Prepared: 01/22/2019	Final: 10 mL	Analyzed: 01/23/2019 00:00	Report Basis: Wet

Analyte	Result (ug/sample)	Result (ng/m ³)	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
EPA TO-10A, PCBs	/S/ Mila V. Potekhin 01/24/2019 10:23	/S/ Lyle Edwards 01/24/2019 14:20

Laboratory Contact Information

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

Phone: (801) 266-7700
 Email: als@alst.com
 Web: www.alst.com



ANALYTICAL REPORT

Workorder: **34-1902240**

Client: ALTA Environmental

Project Manager: Paul E. Pope

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	Certificate Number	Website
Environmental	PJLA (DoD ELAP)		
	Utah (TNI)		
	Nevada		
	Oklahoma		
	Iowa		

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.
< 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%.

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: January 22, 2019

Mr. David Schack
Alta Environmental
3777 Long Beach Blvd, Annex Building
Long Beach, CA 90807
Tel: (562) 495-5777 E-Mail: David.Schack@altaenviron.com

Project: **Malibu High School Bldg D Flood SMSD-18-8154**
Lab I.D.: **190121-23 through -28**

Dear Mr. Schack:

The **analytical results** for the wipe samples, received by our laboratory on January 21, 2019, are attached. The samples were received intact, and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,


Curtis Desilets
Vice President/Program Manager


Andy Wang
Laboratory Manager

LABORATORY REPORT

CUSTOMER: **Alta Environmental**
 3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
 Tel: (562) 495-5777 E-Mail: David.Schack@altaenviron.com

PROJECT: **Malibu High School Bldg D Flood SMSD-18-8154**

DATE SAMPLED: <u>01/19/19</u>	DATE RECEIVED: <u>01/21/19</u>
MATRIX: <u>WIPE</u>	DATE EXTRACTED: <u>01/21-22/19</u>
REPORT TO: <u>MR. DAVID SCHACK</u>	DATE ANALYZED: <u>01/22/19</u>
	DATE REPORTED: <u>01/22/19</u>

PCBs ANALYSIS

METHOD: EPA 3540C/8082

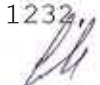
UNITS: ug/100CM² = MICROGRAM PER 100 SQUARE CENTIMETERS

SAMPLE I.D.	LAB I.D.	PCB- 1016	PCB- 1221	PCB- 1232	PCB- 1242	PCB- 1248	PCB- 1254	PCB- 1260	TOTAL PCBs*	DF
<u>011919-SF01</u>	<u>190121-23</u>	ND	ND	ND	ND	ND	ND	ND	ND	<u>1</u>
<u>011919-SF02</u>	<u>190121-24</u>	ND	ND	ND	ND	ND	ND	ND	ND	<u>1</u>
<u>011919-SF03</u>	<u>190121-25</u>	ND	ND	ND	ND	ND	ND	ND	ND	<u>1</u>
<u>011919-SF04</u>	<u>190121-26</u>	ND	ND	ND	ND	ND	ND	ND	ND	<u>1</u>
<u>011919-SF05</u>	<u>190121-27</u>	ND	ND	ND	ND	ND	ND	ND	ND	<u>1</u>
<u>011919-SF06</u>	<u>190121-28</u>	ND	ND	ND	ND	ND	ND	ND	ND	<u>1</u>
<u>Method Blank</u>		ND	ND	ND	ND	ND	ND	ND	ND	<u>1</u>

PQL 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10

COMMENTS:

PQL = Practical Quantitation Limit
 DF = Dilution Factor
 Actual Detection Limit = PQL X DF
 ND = Non-Detected or Below the Actual Detection Limit
 * = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260

Data Reviewed and Approved by: 
 CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc. Laboratories
 1214 E. Lexington Avenue,
 Pomona, CA 91766
 Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

Turnaround Time
 Same Day
 24 Hours
 48 Hours
 72 Hours
 1 Week (Standard)
 Other: **ASAP**

RUSH

PRELIMINARY ANALYSIS

Misc./PO#

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required		COMMENTS	
011919 - SF01	190/21-23	01/19/19		wipe	1		ICE	X			
-SF02	-74							X			
-SF03	-25							X			
-SF04	-26							X			
-SF05	-27							X			
-SF06	-28							X			
Company Name: ATA Environmental				Project Contact: David Schwack				Sampler's Signature: <i>[Signature]</i>			
Address: 3777 Long Beach Blvd				Tel:				Project Name/ID: Mullibu High School Blast			
City/State/Zip: Long Beach, CA, 90807				Fax: <i>[Signature]</i>				SMSD - 18-8154			
Relinquished by: <i>[Signature]</i>				Received by:				Date & Time: 01/21/19			
Relinquished by:				Received by:				Date & Time: 11/10			
Relinquished by:				Received by:				Date & Time:			
Instructions for Sample Storage After Analysis: <input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days) <input type="checkbox"/> Other:											

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE - YELLOW TO CLIENT

Date: **01/21/19**

Page **1** of **1**