



March 15, 2020

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

Attention: Carey Upton

**Re: PCB Removal Clearance Letter
Malibu High School-Building J**

1 PROJECT BACKGROUND

Alta Environmental DBA NV5 (NV5) conducted full-time monitoring and observation during the removal of building material containing polychlorinated biphenyls (PCBs) from Vestibules 700H and 704A, and from Rooms 704, 705, 714 and 722, located in Building J at Malibu High School (Site). The removal activities were conducted in accordance with the USEPA-approved *Notification of New PCB-impacted Building Materials at Malibu High School* dated August 19, 2020 (herein identified as the “Work Plan”).

2 PROJECT OBSERVATIONS

Project observations of work activities completed at the Site are described below.

Removal Work Activities

Miller Environmental, Inc. (Miller) completed removal of PCB-containing source material (door, window and vent caulking) at the Site. Prior to beginning removal activities, a full containment work area including critical barriers, three-stage worker decontamination facility, and temporary negative pressure differential was established. Removal activities were completed by HAZWOPER-trained technicians using manual means and wet methods.

2.1 Door Caulking

Miller removed all visible caulking material from the doorways in Rooms 704, 704A, 705 and 700H in a staged process, with the interior doorways completed first (Rooms 704, 705) and the exterior doorways completed thereafter (Rooms 704A, 700H). All doorway assembly components, including associated pcb-impacted caulking, were fully removed and properly disposed as Bulk Product Waste. Based on the findings of previous investigations and the planned lock-off of these areas, removal of porous substrates adjoining the doorways was not required.

Following removal activities, Miller and NV5 field personnel performed a final visual inspection of the containment areas. Once the areas were found to be acceptably free of PCB-impacted materials, dust and other debris, NV5 collected clearance wipe samples prior to removal of the work area containment systems.

NV5 | Alta Environmental

3777 Long Beach Boulevard Annex Building Long Beach CA 90807 United States of America
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The clearance wipe samples for the Room 704 and 705 doorway containment were collected on July 31, 2020 and the samples for the Room 704A containment and separate Room 700H containment were collected on August 14, 2020. All initial clearance wipe samples were reported with PCB concentrations less than 1 microgram (μg) per 100 square-centimeters (cm^2) and the containments were subsequently removed to facilitate build-back using new building materials.

2.2 Window and Vent Caulking

Miller removed all visible caulking material from the exterior wall vent assembly located in Room 714, the large window located in the western exterior wall that spans Rooms 704 and 705, and the large window in the eastern exterior wall of Room 722. In addition, Miller utilized a chemical wash to clean and remove any remaining residue from the metal framed wall openings and the metal window assemblies to facilitate reuse. The exterior wall vent from Room 714 was replaced with a new unit and therefore cleaning of the old removed vent was not required.

Following the window and vent cleaning activities, Miller and NV5 field personnel performed a final visual inspection of the containment areas. Once the areas were found to be acceptably free of PCB-impacted materials, dust and other debris, NV5 collected clearance wipe samples from each of the metal framed wall openings and the window assemblies to confirm adequate removal of any remaining PCB-impacted caulk residue. All initial clearance wipe samples were reported with PCB concentrations less than $1 \mu\text{g}/100\text{cm}^2$ and the containments were subsequently removed. Miller then applied an encapsulant and metal cladding extending a minimum distance of 16 inches around the Room 704/705, Room 714 and Room 722 wall openings and reinstalled the cleaned window assemblies and the new vent assembly.

Based on the reported laboratory results, the subject work area was released back to the Santa Monica Malibu Unified School District for re-occupancy on September 24, 2020.

3 CONCLUSIONS

The previously identified PCB-impacted window and vent caulking materials within Malibu High School Building J Rooms 704, 704A, 705, 714, and 722 were appropriately removed and disposed, in accordance with the USEPA-approved Work Plan.

4 SIGNATORY

Respectfully submitted by:

NV5


Jonathan Barkman
Project Manager


Bryan Stone, PE
Vice President – Site Assessment and Remediation

Attachments:

Laboratory Analytical Reports

APPENDIX A

Laboratory Results – Building Component Reuse and Work Area Clearance Sampling



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September 21, 2020

AETL Job No: BBI0237
Received Date: 09/18/2020
Project Number: SMSD-20-9592

NV5
3777 Long Beach Boulevard, Annex Building
Long Beach, CA 90807
Telephone: (562) 495-5777

Attention: Jonathan Barkman

Project Name: MMHS
Site: MMHS
30215 Morning View Dr.
Malibu, CA 90265

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Harriet Torosyan
Project Manager

Approved By:

Jim Lin
Project Manager

Table of Contents

Client Project Name: Malibu High School (SMSD-20-9592)
Work Order Number: BBI0237

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NV5	AETL Job Number: BBI0237	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/21/2020 16:18

Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: 4.0 °C

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y



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CHAIN OF CUSTODY RECORD

120409

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AETL JOB No. **BB10237**

Page ___ of ___

COMPANY **NVS/ALTA** PROJECT MANAGER **JOHN BARKMAN**
 COMPANY ADDRESS **3777 Long Beach Blvd. Long Beach** PHONE **300 920-8404**
 PROJECT NAME **MMHS** EMAIL **Johnathan.Barkman@nvs.com**
 SITE NAME AND ADDRESS **30215 Morning View Pt. Malibu Ca. 90265** PROJECT # **SMSP-20-9592**

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
1								
2	BB10237-01	9/18/20	1340	WIPE	100CM ²	ICE	XXXXXX	XXXXXX
3	BB10237-02		1345				XXXXXX	
4	BB10237-03		1348				XXXXXX	
5	BB10237-04		1355				XXXXXX	
6	BB10237-05		1400				XXXXXX	
7	BB10237-06		1405				XXXXXX	
8	BB10237-07		1410				XXXXXX	
9								
10								
11								
12								
13								
14								
15								

TOTAL NUMBER OF CONTAINERS: 7

BILLING INFORMATION / SPECIAL INSTRUCTIONS

TURN AROUND TIME
 NORMAL SAME DAY RUSH NEXT DAY RUSH 3 DAYS RUSH 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
 HARD COPY E-COPY GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY)

RELINQUISHED BY: SAMPLER: Signature: [Signature] Printed Name: Candy Howard Date: 9/18/20 Time: 1430

RELINQUISHED BY: 1. Signature: [Signature] Printed Name: [Signature] Date: 9/18/20 Time: 1430

RELINQUISHED BY: 2. Signature: [Signature] Printed Name: [Signature] Date: 9/18/20 Time: 1600

RELINQUISHED BY: 3. Signature: [Signature] Printed Name: [Signature] Date: 9/18/20 Time: 1600

TRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <u>NV5</u>			
Project Name:			
AETL Job Number: <u>BB10237</u>			
Date Received: <u>9/18/2020</u>		Received by: <u>Sergis Pireh</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GLS <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>1</u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>5°C</u> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input type="checkbox"/> MeOH			
<input checked="" type="checkbox"/> Other (Specify): <u>WIPS</u>			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	↓		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:



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NV5	AETL Job Number: BBI0237	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/21/2020 16:18

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0237 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: MMHS 30215 Morning View Dr. Malibu, CA 90265 Reported: 09/21/2020 16:18
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Samples Received

AETL received the following samples on 09/18/2020 with the following specifications

Project Name: MMHS Site: 30215 Morning View Dr. Malibu, CA 90265		
Client ID W-1		Sample Date 09/18/2020 13:40
Lab ID BBI0237-01	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID W-2		Sample Date 09/18/2020 13:45
Lab ID BBI0237-02	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID W-3		Sample Date 09/18/2020 13:48
Lab ID BBI0237-03	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID W-4		Sample Date 09/18/2020 13:55
Lab ID BBI0237-04	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0237 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: MMHS 30215 Morning View Dr. Malibu, CA 90265 Reported: 09/21/2020 16:18
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Samples Received (Continued)

AETL received the following samples on 09/18/2020 with the following specifications

Project Name: MMHS Site: 30215 Morning View Dr. Malibu, CA 90265		
Client ID W-5		Sample Date 09/18/2020 14:00
Lab ID BBI0237-05	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID W-6		Sample Date 09/18/2020 14:05
Lab ID BBI0237-06	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID W-7		Sample Date 09/18/2020 14:10
Lab ID BBI0237-07	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Total Number of Samples received:		7



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0237 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: MMHS 30215 Morning View Dr. Malibu, CA 90265 Reported: 09/21/2020 16:18
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Positive Hits Summary

Lab ID	Client ID				Received
BBI0237-01	W-1				09/18/2020 16:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8082	Aroclor-1260 (PCB-1260)	0.218		ug/100cm2	09/21/2020 11:22
BBI0237-02	W-2				09/18/2020 16:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8082	Aroclor-1260 (PCB-1260)	0.647		ug/100cm2	09/21/2020 11:42
BBI0237-05	W-5				09/18/2020 16:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8082	Aroclor-1260 (PCB-1260)	0.162		ug/100cm2	09/21/2020 12:40
BBI0237-06	W-6				09/18/2020 16:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8082	Aroclor-1260 (PCB-1260)	0.308		ug/100cm2	09/21/2020 13:00



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NV5	AETL Job Number: BBI0237	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/21/2020 16:18

Analytical Results

Client ID: W-1

Lab ID: BBI0237-01 (Wipe)

Sampled: 09/18/20 13:40

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:22	B0I0426	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:22	B0I0426	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:22	B0I0426	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:22	B0I0426	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:22	B0I0426	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:22	B0I0426	ATS	3540C
Aroclor-1260 (PCB-1260)	0.218		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:22	B0I0426	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:22	B0I0426	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:22	B0I0426	ATS	3540C
			Recovery		Acceptance Criteria						
Surrogate: Decachlorobiphenyl	61.0%			30-150	09/18/20 16:30	09/21/20 11:22	B0I0426	ATS	3540C		
Surrogate: Tetrachloro-m-xylene	60.3%			30-150	09/18/20 16:30	09/21/20 11:22	B0I0426	ATS	3540C		



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0237 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: MMHS 30215 Morning View Dr. Malibu, CA 90265 Reported: 09/21/2020 16:18
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Analytical Results

Client ID: W-2

Lab ID: BBI0237-02 (Wipe)

Sampled: 09/18/20 13:45

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND	1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:42	B0I0426	ATS	3540C
Aroclor-1221 (PCB-1221)	ND	1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:42	B0I0426	ATS	3540C
Aroclor-1232 (PCB-1232)	ND	1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:42	B0I0426	ATS	3540C
Aroclor-1242 (PCB-1242)	ND	1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:42	B0I0426	ATS	3540C
Aroclor-1248 (PCB-1248)	ND	1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:42	B0I0426	ATS	3540C
Aroclor-1254 (PCB-1254)	ND	1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:42	B0I0426	ATS	3540C
Aroclor-1260 (PCB-1260)	0.647	1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:42	B0I0426	ATS	3540C
Aroclor-1262 (PCB-1262)	ND	1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:42	B0I0426	ATS	3540C
Aroclor-1268 (PCB-1268)	ND	1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 11:42	B0I0426	ATS	3540C

	Recovery			Acceptance Criteria						
Surrogate: Decachlorobiphenyl	64.2%									
Surrogate: Tetrachloro-m-xylene	58.6%									



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NV5	AETL Job Number: BBI0237	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/21/2020 16:18

Analytical Results

Client ID: W-3

Lab ID: BBI0237-03 (Wipe)

Sampled: 09/18/20 13:48

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:01	B0I0426	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:01	B0I0426	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:01	B0I0426	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:01	B0I0426	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:01	B0I0426	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:01	B0I0426	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:01	B0I0426	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:01	B0I0426	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:01	B0I0426	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl	66.0%						09/18/20 16:30	09/21/20 12:01	B0I0426	ATS	3540C
Surrogate: Tetrachloro-m-xylene	89.1%						09/18/20 16:30	09/21/20 12:01	B0I0426	ATS	3540C

Acceptance Criteria

							30-150	09/18/20 16:30			
							30-150	09/18/20 16:30			



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NV5	AETL Job Number: BBI0237	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/21/2020 16:18

Analytical Results

Client ID: **W-4**

Lab ID: **BBI0237-04 (Wipe)**

Sampled: **09/18/20 13:55**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: **EPA 8082**

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:21	B0I0426	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:21	B0I0426	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:21	B0I0426	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:21	B0I0426	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:21	B0I0426	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:21	B0I0426	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:21	B0I0426	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:21	B0I0426	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:21	B0I0426	ATS	3540C
			Recovery		Acceptance Criteria						
Surrogate: Decachlorobiphenyl	74.8%										
Surrogate: Tetrachloro-m-xylene	69.3%										



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NV5	AETL Job Number: BBI0237	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/21/2020 16:18

Analytical Results

Client ID: W-5

Lab ID: BBI0237-05 (Wipe)

Sampled: 09/18/20 14:00

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:40	B0I0426	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:40	B0I0426	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:40	B0I0426	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:40	B0I0426	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:40	B0I0426	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:40	B0I0426	ATS	3540C
Aroclor-1260 (PCB-1260)	0.162		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:40	B0I0426	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:40	B0I0426	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 12:40	B0I0426	ATS	3540C
			Recovery		Acceptance Criteria						
Surrogate: Decachlorobiphenyl	58.5%			30-150	09/18/20 16:30	09/21/20 12:40	B0I0426	ATS	3540C		
Surrogate: Tetrachloro-m-xylene	58.2%			30-150	09/18/20 16:30	09/21/20 12:40	B0I0426	ATS	3540C		



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NV5	AETL Job Number: BBI0237	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/21/2020 16:18

Analytical Results

Client ID: W-6

Lab ID: BBI0237-06 (Wipe)

Sampled: 09/18/20 14:05

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:00	B0I0426	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:00	B0I0426	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:00	B0I0426	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:00	B0I0426	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:00	B0I0426	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:00	B0I0426	ATS	3540C
Aroclor-1260 (PCB-1260)	0.308		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:00	B0I0426	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:00	B0I0426	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:00	B0I0426	ATS	3540C
			Recovery		Acceptance Criteria						
Surrogate: Decachlorobiphenyl	65.8%			30-150	09/18/20 16:30	09/21/20 13:00	B0I0426	ATS	3540C		
Surrogate: Tetrachloro-m-xylene	69.6%			30-150	09/18/20 16:30	09/21/20 13:00	B0I0426	ATS	3540C		



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NV5	AETL Job Number: BBI0237	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/21/2020 16:18

Analytical Results

Client ID: W-7

Lab ID: BBI0237-07 (Wipe)

Sampled: 09/18/20 14:10

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:19	B0I0426	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:19	B0I0426	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:19	B0I0426	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:19	B0I0426	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:19	B0I0426	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:19	B0I0426	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:19	B0I0426	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:19	B0I0426	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/18/20 16:30	09/21/20 13:19	B0I0426	ATS	3540C
			Recovery		Acceptance Criteria						
Surrogate: Decachlorobiphenyl	68.6%			30-150	09/18/20 16:30	09/21/20 13:19	B0I0426	ATS	3540C		
Surrogate: Tetrachloro-m-xylene	92.8%			30-150	09/18/20 16:30	09/21/20 13:19	B0I0426	ATS	3540C		



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NV5	AETL Job Number: BBI0237	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/21/2020 16:18

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0426 - 3540C					Prepared: 09/18/2020 16:30						
Method Blank (B0I0426-BLK1)					Analyzed: 09/21/2020 11:02						
Aroclor-1016 (PCB-1016)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1221 (PCB-1221)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1232 (PCB-1232)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1242 (PCB-1242)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1248 (PCB-1248)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1254 (PCB-1254)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1260 (PCB-1260)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1262 (PCB-1262)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1268 (PCB-1268)	ND	0.0200	0.0500	ug/100cm2							
<hr/>											
Surrogate: Decachlorobiphenyl	0.0386			ug/100cm2	0.0500		77.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.0379			ug/100cm2	0.0500		75.8	30-150			



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NV5	AETL Job Number: BBI0237	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/21/2020 16:18

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0426 - 3540C (Continued)					Prepared: 09/18/2020 16:30						
LCS (B0I0426-BS1)					Analyzed: 09/21/2020 10:23						
Aroclor-1016 (PCB-1016)	0.762	0.0200	0.0500	ug/100cm2	1.00		76.2	50-150			
Aroclor-1260 (PCB-1260)	0.711	0.0200	0.0500	ug/100cm2	1.00		71.1	50-150			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0511</i>			<i>ug/100cm2</i>	<i>0.0500</i>		<i>102</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0254</i>			<i>ug/100cm2</i>	<i>0.0500</i>		<i>50.8</i>	<i>30-150</i>			
LCSD (B0I0426-BSD1)					Analyzed: 09/21/2020 10:43						
Aroclor-1016 (PCB-1016)	0.745	0.0200	0.0500	ug/100cm2	1.00		74.5	50-150	2.32	40	
Aroclor-1260 (PCB-1260)	0.890	0.0200	0.0500	ug/100cm2	1.00		89.0	50-150	22.3	40	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0496</i>			<i>ug/100cm2</i>	<i>0.0500</i>		<i>99.2</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0447</i>			<i>ug/100cm2</i>	<i>0.0500</i>		<i>89.4</i>	<i>30-150</i>			



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NV5	AETL Job Number: BBI0237	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/21/2020 16:18

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HC	Hydrocarbon
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalent to LOQ.
RPD	Relative Percent Difference



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NV5	AETL Job Number: BBI0237	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/21/2020 16:18

SIM	Selective Ion Monitoring
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction



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September 28, 2020

AETL Job No: BBI0346
Received Date: 09/25/2020
Project Number: SMSD-20-9592

NV5
3777 Long Beach Boulevard, Annex Building
Long Beach, CA 90807
Telephone: (562) 495-5777

Attention: Jonathan Barkman

Project Name: MMHS
Site: MMHS
30215 Morning View Dr.
Malibu, CA 90265

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Harriet Torosyan
Project Manager

Approved By:

Corey Jones
Project Manager

Table of Contents

Client Project Name: Malibu High School (SMSD-20-9592)
Work Order Number: BBI0346

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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: 4.0 °C

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y



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CHAIN OF CUSTODY RECORD

120495

COMPANY NVS PROJECT MANAGER Sonia Barlow
 COMPANY ADDRESS 3777 Long Beach Blvd PHONE 310 920-8404
Long Beach EMAIL _____

PROJECT NAME MNHLS PROJECT # SMSP-20-9592

SITE NAME AND ADDRESS 30215 Morning View Pl, Malibu Cal.

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
1	9A5-A-1	9/25/20	1345	WPE	100 cap	1SE	XXXX	
2	A-2		1350	I	I	I	XXXX	
3	A-3		1355	I	I	I	XXXX	
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

TOTAL NUMBER OF CONTAINERS: 3

BILLING INFORMATION / SPECIAL INSTRUCTIONS

TURN AROUND TIME
 NORMAL SAME DAY RUSH NEXT DAY RUSH
 2 DAYS RUSH 3 DAYS RUSH 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
 HARD COPY E-COPY GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER:	1.	2.	3.
Signature:	<u>MA</u>		
Printed Name:	<u>Kandy Flu</u>		
Date:	<u>9/25/20</u>		
Time:	<u>1520</u>		
RECEIVED BY:	1.	2.	3.
Signature:			
Printed Name:			
Date:			
Time:			

RECEIVED BY LABORATORY:
 Signature: _____
 Printed Name: _____
 Date: 09/25/20
 Time: 15:20

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <i>NVS</i>			
Project Name:			
AETL Job Number: <i>BB10346</i>			
Date Received: <i>9/25/2020</i>		Received by: <i>Sergiy Pivch</i>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GLS <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<i>1</i>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <i>4°C</i> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input type="checkbox"/> MeOH			
<input type="checkbox"/> Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<input checked="" type="checkbox"/>		
2. Are the Sample labels legible?	<input checked="" type="checkbox"/>		
3. Do samples match the COC?	<input checked="" type="checkbox"/>		
4. Are the required analyses clear?	<input checked="" type="checkbox"/>		
5. Is there enough samples for required analysis?	<input checked="" type="checkbox"/>		
6. Are samples sealed with evidence tape?	<i>N/A</i>		
7. Are sample containers in good condition?	<input checked="" type="checkbox"/>		
8. Are samples preserved?	<input checked="" type="checkbox"/>		
9. Are samples preserved properly for the intended analysis?	<input checked="" type="checkbox"/>		
10. Are the VOAs free of headspace?	<i>N/A</i>		
11. Are the jars free of headspace?	<input checked="" type="checkbox"/>		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0346 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: MMHS	Site: MMHS 30215 Morning View Dr. Malibu, CA 90265 Reported: 09/28/2020 17:45
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Samples Received

AETL received the following samples on 09/25/2020 with the following specifications

Project Name: MMHS Site: 30215 Morning View Dr. Malibu, CA 90265		
Client ID 905-A-1		Sample Date 09/25/2020 13:45
Lab ID BBI0346-01	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID 905-A-2		Sample Date 09/25/2020 13:50
Lab ID BBI0346-02	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID 905-A-3		Sample Date 09/25/2020 13:55
Lab ID BBI0346-03	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1

Total Number of Samples received: 3



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Positive Hits Summary

Lab ID	Client ID	Result	Qualifier	Unit	Received
BBI0346-02	905-A-2				09/25/2020 15:20
Method	Analyte				Analyzed
EPA 8082	Aroclor-1254 (PCB-1254)	2.19		ug/100cm2	09/28/2020 11:44

Lab ID	Client ID	Result	Qualifier	Unit	Received
BBI0346-03	905-A-3				09/25/2020 15:20
Method	Analyte				Analyzed
EPA 8082	Aroclor-1254 (PCB-1254)	0.685		ug/100cm2	09/28/2020 12:04



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Analytical Results

Client ID: 905-A-1

Lab ID: BBI0346-01 (Wipe)

Sampled: 09/25/20 13:45

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl	32.5%
Surrogate: Tetrachloro-m-xylene	74.9%

Acceptance Criteria

		30-150	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
		30-150	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Analytical Results

Client ID: 905-A-2

Lab ID: BBI0346-02 (Wipe)

Sampled: 09/25/20 13:50

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1254 (PCB-1254)	2.19		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl	42.0%						09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Surrogate: Tetrachloro-m-xylene	63.0%						09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C

Acceptance Criteria

							30-150	09/25/20 17:00			
							30-150	09/25/20 17:00			



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Analytical Results

Client ID: 905-A-3

Lab ID: BBI0346-03 (Wipe)

Sampled: 09/25/20 13:55

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1254 (PCB-1254)	0.685		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
			Recovery		Acceptance Criteria						
Surrogate: Decachlorobiphenyl	45.4%			30-150	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C		
Surrogate: Tetrachloro-m-xylene	75.0%			30-150	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C		



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0594 - 3540C					Prepared: 09/25/2020 17:00						
Method Blank (B0I0594-BLK1)					Analyzed: 09/28/2020 11:05						
Aroclor-1016 (PCB-1016)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1221 (PCB-1221)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1232 (PCB-1232)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1242 (PCB-1242)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1248 (PCB-1248)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1254 (PCB-1254)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1260 (PCB-1260)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1262 (PCB-1262)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1268 (PCB-1268)	ND	0.0200	0.0500	ug/100cm2							
<hr/>											
Surrogate: Decachlorobiphenyl	0.0240			ug/100cm2	0.0500		48.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.0429			ug/100cm2	0.0500		85.8	30-150			



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0594 - 3540C (Continued)					Prepared: 09/25/2020 17:00						
LCS (B0I0594-BS1)					Analyzed: 09/28/2020 10:26						
Aroclor-1016 (PCB-1016)	0.765	0.0200	0.0500	ug/100cm2	1.00		76.5	50-150			
Aroclor-1260 (PCB-1260)	0.699	0.0200	0.0500	ug/100cm2	1.00		69.9	50-150			
<hr/>											
Surrogate: Decachlorobiphenyl	0.0295			ug/100cm2	0.0500		59.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.0381			ug/100cm2	0.0500		76.2	30-150			
<hr/>											
LCSD (B0I0594-BSD1)					Analyzed: 09/28/2020 10:45						
Aroclor-1016 (PCB-1016)	0.981	0.0200	0.0500	ug/100cm2	1.00		98.1	50-150	24.7	40	
Aroclor-1260 (PCB-1260)	0.732	0.0200	0.0500	ug/100cm2	1.00		73.2	50-150	4.64	40	
<hr/>											
Surrogate: Decachlorobiphenyl	0.0218			ug/100cm2	0.0500		43.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.0423			ug/100cm2	0.0500		84.7	30-150			



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HC	Hydrocarbon
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalent to LOQ.
RPD	Relative Percent Difference



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

SIM	Selective Ion Monitoring
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction



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September 28, 2020

AETL Job No: BBI0346
Received Date: 09/25/2020
Project Number: SMSD-20-9592

NV5
3777 Long Beach Boulevard, Annex Building
Long Beach, CA 90807
Telephone: (562) 495-5777

Attention: Jonathan Barkman

Project Name: MMHS
Site: MMHS
30215 Morning View Dr.
Malibu, CA 90265

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Harriet Torosyan
Project Manager

Approved By:

Corey Jones
Project Manager

Table of Contents

Client Project Name: Malibu High School (SMSD-20-9592)
Work Order Number: BBI0346

1	Cover Letter	1
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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: 4.0 °C

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y



120495

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COMPANY NVS PROJECT MANAGER Joni Barlow
 COMPANY ADDRESS 3777 Long Beach Blvd PHONE 310 920-8404
Long Beach EMAIL _____
 PROJECT NAME MNH5 PROJECT # SM5D-20-9592

SITE NAME AND ADDRESS 30215 Morning View Pl
Malibu Calif

AETL JOB No. BB10346

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS	
1	9A5-A-1	9/25/20	1345	WPE	100 cm ²	ISE	X	X	X	X		
2	A-2		1350	I	I	I	X	X	X	X		
3	A-3		1355	I	I	I	X	X	X	X		
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

TOTAL NUMBER OF CONTAINERS: 3

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY: **1.** SAMPLER: MA Signature: _____ Printed Name: _____ Date: 9/25/20 Time: 1520

RELINQUISHED BY: **2.** _____ Signature: _____ Printed Name: _____ Date: _____ Time: _____

RELINQUISHED BY: **3.** _____ Signature: _____ Printed Name: _____ Date: _____ Time: _____

DATA DELIVERABLE REQUIRED
 NORMAL SAME DAY RUSH NEXT DAY RUSH HARD COPY
 2 DAYS RUSH 3 DAYS RUSH 4 DAYS RUSH GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY) _____

TURN AROUND TIME

RECEIVED BY: **1.** _____ Signature: _____ Printed Name: _____ Date: _____ Time: _____

RECEIVED BY: **2.** _____ Signature: _____ Printed Name: _____ Date: _____ Time: _____

RECEIVED BY: **3.** _____ Signature: _____ Printed Name: _____ Date: _____ Time: _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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2834 N. NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP# 1541 & 2402 LACSD# 10181

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COOLER RECEIPT FORM

Client Name: <i>NVS</i>			
Project Name:			
AETL Job Number: <i>BB10346</i>			
Date Received: <i>9/25/2020</i>		Received by: <i>Sergiy Pivch</i>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GLS <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<i>1</i>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <i>4°C</i> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input type="checkbox"/> MeOH			
<input type="checkbox"/> Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<i>✓</i>		
2. Are the Sample labels legible?	<i>✓</i>		
3. Do samples match the COC?	<i>✓</i>		
4. Are the required analyses clear?	<i>✓</i>		
5. Is there enough samples for required analysis?	<i>✓</i>		
6. Are samples sealed with evidence tape?	<i>N/A</i>		
7. Are sample containers in good condition?	<i>✓</i>		
8. Are samples preserved?	<i>✓</i>		
9. Are samples preserved properly for the intended analysis?	<i>✓</i>		
10. Are the VOAs free of headspace?	<i>N/A</i>		
11. Are the jars free of headspace?	<i>✓</i>		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0346 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: MMHS	Site: MMHS 30215 Morning View Dr. Malibu, CA 90265 Reported: 09/28/2020 17:45
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Samples Received

AETL received the following samples on 09/25/2020 with the following specifications

Project Name: MMHS Site: 30215 Morning View Dr. Malibu, CA 90265		
Client ID 905-A-1		Sample Date 09/25/2020 13:45
Lab ID BBI0346-01	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID 905-A-2		Sample Date 09/25/2020 13:50
Lab ID BBI0346-02	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID 905-A-3		Sample Date 09/25/2020 13:55
Lab ID BBI0346-03	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1

Total Number of Samples received: 3



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0346 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: MMHS	Site: MMHS 30215 Morning View Dr. Malibu, CA 90265 Reported: 09/28/2020 17:45
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Positive Hits Summary

Lab ID	Client ID	Method	Analyte	Result	Qualifier	Unit	Received
BBI0346-02	905-A-2	EPA 8082	Aroclor-1254 (PCB-1254)	2.19		ug/100cm2	09/25/2020 15:20 Analyzed
							09/28/2020 11:44

Lab ID	Client ID	Method	Analyte	Result	Qualifier	Unit	Received
BBI0346-03	905-A-3	EPA 8082	Aroclor-1254 (PCB-1254)	0.685		ug/100cm2	09/25/2020 15:20 Analyzed
							09/28/2020 12:04



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Analytical Results

Client ID: 905-A-1

Lab ID: BBI0346-01 (Wipe)

Sampled: 09/25/20 13:45

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:25	B0I0594	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl	32.5%
Surrogate: Tetrachloro-m-xylene	74.9%

Acceptance Criteria



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Analytical Results

Client ID: 905-A-2

Lab ID: BBI0346-02 (Wipe)

Sampled: 09/25/20 13:50

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1254 (PCB-1254)	2.19		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl	42.0%						09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C
Surrogate: Tetrachloro-m-xylene	63.0%						09/25/20 17:00	09/28/20 11:44	B0I0594	ATS	3540C

Acceptance Criteria

							30-150	09/25/20 17:00			
							30-150	09/25/20 17:00			



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Analytical Results

Client ID: 905-A-3

Lab ID: BBI0346-03 (Wipe)

Sampled: 09/25/20 13:55

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1254 (PCB-1254)	0.685		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C
			Recovery		Acceptance Criteria						
Surrogate: Decachlorobiphenyl	45.4%			30-150	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C		
Surrogate: Tetrachloro-m-xylene	75.0%			30-150	09/25/20 17:00	09/28/20 12:04	B0I0594	ATS	3540C		



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0594 - 3540C											
Method Blank (B0I0594-BLK1)											
Aroclor-1016 (PCB-1016)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1221 (PCB-1221)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1232 (PCB-1232)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1242 (PCB-1242)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1248 (PCB-1248)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1254 (PCB-1254)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1260 (PCB-1260)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1262 (PCB-1262)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1268 (PCB-1268)	ND	0.0200	0.0500	ug/100cm2							
Surrogate: Decachlorobiphenyl	0.0240			ug/100cm2	0.0500		48.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.0429			ug/100cm2	0.0500		85.8	30-150			



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0594 - 3540C (Continued)					Prepared: 09/25/2020 17:00						
LCS (B0I0594-BS1)					Analyzed: 09/28/2020 10:26						
Aroclor-1016 (PCB-1016)	0.765	0.0200	0.0500	ug/100cm2	1.00		76.5	50-150			
Aroclor-1260 (PCB-1260)	0.699	0.0200	0.0500	ug/100cm2	1.00		69.9	50-150			
<hr/>											
Surrogate: Decachlorobiphenyl	0.0295			ug/100cm2	0.0500		59.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.0381			ug/100cm2	0.0500		76.2	30-150			
<hr/>											
LCSD (B0I0594-BSD1)					Analyzed: 09/28/2020 10:45						
Aroclor-1016 (PCB-1016)	0.981	0.0200	0.0500	ug/100cm2	1.00		98.1	50-150	24.7	40	
Aroclor-1260 (PCB-1260)	0.732	0.0200	0.0500	ug/100cm2	1.00		73.2	50-150	4.64	40	
<hr/>											
Surrogate: Decachlorobiphenyl	0.0218			ug/100cm2	0.0500		43.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.0423			ug/100cm2	0.0500		84.7	30-150			



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HC	Hydrocarbon
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalent to LOQ.
RPD	Relative Percent Difference



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NV5	AETL Job Number: BBI0346	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: MMHS	Reported: 09/28/2020 17:45

SIM	Selective Ion Monitoring
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction



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October 02, 2020

AETL Job No: BBJ0015
Received Date: 10/01/2020
Project Number: SMSD-20-9592

NV5
3777 Long Beach Boulevard, Annex Building
Long Beach, CA 90807
Telephone: (562) 495-5777

Attention: Jonathan Barkman

Project Name: MMHS-Bldg J
Site: Malibu High School
Morning Star Drive
Malibu, CA

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Harriet Torosyan
Project Manager

Approved By:

Corey Jones
Project Manager

Table of Contents

Client Project Name: Malibu High School (SMSD-20-9592)
Work Order Number: BBJ0015

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NV5	AETL Job Number: BBJ0015	Site: Malibu High School
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	Morning Star Drive
Long Beach, CA 90807	Attention: Jonathan Barkman	Malibu, CA
	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:15

Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: 3.1 °C

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y



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A KYZER LABS COMPANY

COMPANY Attn: AKS **PROJECT MANAGER** Je Barakman
COMPANY ADDRESS 3777 Long Beach Blvd **PHONE** 562-495-5777
New Bend Ct 90807 **EMAIL** Jonathan.Barakman@AETL.com
PROJECT NAME MMS - Bldg J **PROJECT #** SMSD-20-9592
SITE NAME AND ADDRESS Malibu High School **PO #** SMSD-20-9592
Morning Star Drive

AETL JOB No. BBJ0015

Page 1 of 1

CHAIN OF CUSTODY RECORD
116379

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TEST INSTRUCTIONS & COMMENTS	ANALYSIS REQUESTED
J714-1	BBJ0015-01	9/30/20	Wipe	1345	100cm ²	ICE		
J714-2	BBJ0015-02	9/30/20		1350		I		
J714-3	BBJ0015-03	9/30/20		1355		I		

TOTAL NUMBER OF CONTAINERS: 3

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: Signature: [Signature] **RELINQUISHED BY:** Signature: AMM WND
 Printed Name: [Name] Printed Name: CHAO WHITE
 Date: 10/1/20 Time: 9:05 Date: 10/1/20 Time: 14:20

TURN AROUND TIME
 NORMAL SAME DAY RUSH NEXT DAY RUSH
 2 DAYS RUSH 3 DAYS RUSH 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
 HARD COPY
 E-COPY
 GEOTRACKER (GLOBAL ID)
 OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY: Signature: AMM WND **RECEIVED BY:** Signature: [Signature]
 Printed Name: CHAO WHITE Printed Name: [Name]
 Date: 10/1/20 Time: 9:05 Date: 10/1/20 Time: 14:20

CONTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <u>NV5</u>			
Project Name:			
AETL Job Number: <u>BBJ0015</u>			
Date Received: <u>10/01/2020</u>		Received by: <u>Carpetta Garegoosian</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GLS <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>1</u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3.1</u> , No 2: , No 3:			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input type="checkbox"/> MeOH			
<input type="checkbox"/> Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<input checked="" type="checkbox"/>		
2. Are the Sample labels legible?	<input checked="" type="checkbox"/>		
3. Do samples match the COC?	<input checked="" type="checkbox"/>		
4. Are the required analyses clear?	<input checked="" type="checkbox"/>		
5. Is there enough samples for required analysis?	<input checked="" type="checkbox"/>		
6. Are samples sealed with evidence tape?	<u>N/A</u>		
7. Are sample containers in good condition?	<input checked="" type="checkbox"/>		
8. Are samples preserved?	<input checked="" type="checkbox"/>		
9. Are samples preserved properly for the intended analysis?	<input checked="" type="checkbox"/>		
10. Are the VOAs free of headspace?	<u>N/A</u>		
11. Are the jars free of headspace?	<u>N/A</u>		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:



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NV5	AETL Job Number: BBJ0015	Site: Malibu High School
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	Morning Star Drive
Long Beach, CA 90807	Attention: Jonathan Barkman	Malibu, CA
	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:15

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBJ0015 Project Number: SMSD-20-9592 Attention: Jonathan Barkman Project Name: MMHS-Bldg J	Site: Malibu High School Morning Star Drive Malibu, CA Reported: 10/02/2020 16:15
--	--	--

Samples Received

AETL received the following samples on 10/01/2020 with the following specifications

Project Name: Malibu High School
Site: Morning Star Drive
Malibu, CA

Client ID J714-1		Sample Date 09/30/2020 13:45
Lab ID BBJ0015-01	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1

Client ID J714-2		Sample Date 09/30/2020 13:50
Lab ID BBJ0015-02	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1

Client ID J714-3		Sample Date 09/30/2020 13:55
Lab ID BBJ0015-03	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1

Total Number of Samples received: 3



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NV5	AETL Job Number: BBJ0015	Site: Malibu High School
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	Morning Star Drive
Long Beach, CA 90807	Attention: Jonathan Barkman	Malibu, CA
	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:15

Positive Hits Summary

Lab ID	Client ID	Result	Qualifier	Unit	Received
BBJ0015-01	J714-1				10/01/2020 14:20
Method	Analyte				Analyzed
EPA 8082	Aroclor-1254 (PCB-1254)	94.6	D	ug/100cm2	10/02/2020 13:20

Lab ID	Client ID	Result	Qualifier	Unit	Received
BBJ0015-02	J714-2				10/01/2020 14:20
Method	Analyte				Analyzed
EPA 8082	Aroclor-1254 (PCB-1254)	1.28		ug/100cm2	10/02/2020 13:40

Lab ID	Client ID	Result	Qualifier	Unit	Received
BBJ0015-03	J714-3				10/01/2020 14:20
Method	Analyte				Analyzed
EPA 8082	Aroclor-1254 (PCB-1254)	0.545		ug/100cm2	10/02/2020 14:19



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NV5	AETL Job Number: BBJ0015	Site: Malibu High School
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	Morning Star Drive
Long Beach, CA 90807	Attention: Jonathan Barkman	Malibu, CA
	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:15

Analytical Results

Client ID: J714-1

Lab ID: BBJ0015-01 (Wipe)

Sampled: 09/30/20 13:45

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:20	BJ00037	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:20	BJ00037	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:20	BJ00037	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:20	BJ00037	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:20	BJ00037	ATS	3540C
Aroclor-1254 (PCB-1254)	94.6	D	50	1.00	2.50	ug/100cm2	10/01/20 15:16	10/02/20 13:20	BJ00037	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:20	BJ00037	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:20	BJ00037	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:20	BJ00037	ATS	3540C
Recovery			Acceptance Criteria								
Surrogate: Decachlorobiphenyl	41.7%						10/01/20 15:16	10/02/20 13:20	BJ00037	ATS	3540C
Surrogate: Tetrachloro-m-xylene	57.5%						10/01/20 15:16	10/02/20 13:20	BJ00037	ATS	3540C



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NV5	AETL Job Number: BBJ0015	Site: Malibu High School
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	Morning Star Drive
Long Beach, CA 90807	Attention: Jonathan Barkman	Malibu, CA
	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:15

Analytical Results

Client ID: J714-2

Lab ID: BBJ0015-02 (Wipe)

Sampled: 09/30/20 13:50

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:40	BJ00037	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:40	BJ00037	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:40	BJ00037	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:40	BJ00037	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:40	BJ00037	ATS	3540C
Aroclor-1254 (PCB-1254)	1.28		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:40	BJ00037	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:40	BJ00037	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:40	BJ00037	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 13:40	BJ00037	ATS	3540C
			Recovery		Acceptance Criteria						
Surrogate: Decachlorobiphenyl	61.0%										
Surrogate: Tetrachloro-m-xylene	42.8%										
			30-150		10/01/20 15:16		10/02/20 13:40		BJ00037	ATS	3540C
			30-150		10/01/20 15:16		10/02/20 13:40		BJ00037	ATS	3540C



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NV5	AETL Job Number: BBJ0015	Site: Malibu High School
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	Morning Star Drive
Long Beach, CA 90807	Attention: Jonathan Barkman	Malibu, CA
	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:15

Analytical Results

Client ID: J714-3

Lab ID: BBJ0015-03 (Wipe)

Sampled: 09/30/20 13:55

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:19	BJ00037	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:19	BJ00037	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:19	BJ00037	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:19	BJ00037	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:19	BJ00037	ATS	3540C
Aroclor-1254 (PCB-1254)	0.545		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:19	BJ00037	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:19	BJ00037	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:19	BJ00037	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:19	BJ00037	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl 41.8%
 Surrogate: Tetrachloro-m-xylene 58.2%

Acceptance Criteria

30-150 10/01/20 15:16 10/02/20 14:19 BJ00037 ATS 3540C
 30-150 10/01/20 15:16 10/02/20 14:19 BJ00037 ATS 3540C



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NV5	AETL Job Number: BBJ0015	Site: Malibu High School
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	Morning Star Drive
Long Beach, CA 90807	Attention: Jonathan Barkman	Malibu, CA
	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:15

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0J0037 - 3540C											
Method Blank (B0J0037-BLK1)											
Prepared: 10/01/2020 15:16											
Analyzed: 10/02/2020 13:01											
Aroclor-1016 (PCB-1016)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1221 (PCB-1221)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1232 (PCB-1232)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1242 (PCB-1242)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1248 (PCB-1248)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1254 (PCB-1254)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1260 (PCB-1260)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1262 (PCB-1262)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1268 (PCB-1268)	ND	0.0200	0.0500	ug/100cm2							
Surrogate: Decachlorobiphenyl	0.0294			ug/100cm2	0.0500		58.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.0268			ug/100cm2	0.0500		53.5	30-150			



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NV5	AETL Job Number: BBJ0015	Site: Malibu High School
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	Morning Star Drive
Long Beach, CA 90807	Attention: Jonathan Barkman	Malibu, CA
	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:15

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0J0037 - 3540C (Continued)					Prepared: 10/01/2020 15:16						
LCS (B0J0037-BS1)					Analyzed: 10/02/2020 12:21						
Aroclor-1016 (PCB-1016)	0.982	0.0200	0.0500	ug/100cm2	1.00		98.2	50-150			
Aroclor-1260 (PCB-1260)	0.822	0.0200	0.0500	ug/100cm2	1.00		82.2	50-150			
<hr/>											
Surrogate: Decachlorobiphenyl	0.0539			ug/100cm2	0.0500		108	30-150			
Surrogate: Tetrachloro-m-xylene	0.0560			ug/100cm2	0.0500		112	30-150			
<hr/>											
LCSD (B0J0037-BSD1)					Analyzed: 10/02/2020 12:41						
Aroclor-1016 (PCB-1016)	0.912	0.0200	0.0500	ug/100cm2	1.00		91.2	50-150	7.32	40	
Aroclor-1260 (PCB-1260)	0.818	0.0200	0.0500	ug/100cm2	1.00		81.8	50-150	<1.00	40	
<hr/>											
Surrogate: Decachlorobiphenyl	0.0556			ug/100cm2	0.0500		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.0478			ug/100cm2	0.0500		95.6	30-150			



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NV5	AETL Job Number: BBJ0015	Site: Malibu High School
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	Morning Star Drive
Long Beach, CA 90807	Attention: Jonathan Barkman	Malibu, CA
	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:15

Qualifiers and Definitions

Item	Qualifiers
D	Sample was analyzed under dilution due to matrix interference.
Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HC	Hydrocarbon
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl



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NV5	AETL Job Number: BBJ0015	Site: Malibu High School
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	Morning Star Drive
Long Beach, CA 90807	Attention: Jonathan Barkman	Malibu, CA
	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:15

RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalent to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction



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October 02, 2020

AETL Job No: BBJ0017
Received Date: 10/01/2020
Project Number: SMSD-20-9592

NV5
3777 Long Beach Boulevard, Annex Building
Long Beach, CA 90807
Telephone: (562) 495-5777

Attention: Jonathan Barkman

Project Name: MMHS-Bldg J
Site: Malibu High School
Morning View Drive
Malibu, CA

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Harriet Torosyan
Project Manager

Approved By:

Corey Jones
Project Manager

Table of Contents

Client Project Name: Malibu High School (SMSD-20-9592)
Work Order Number: BBJ0017

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2834 North Naomi Street Burbank, CA 91504 • ELAP# 1541 & 2402 • LACSD# 10181
TEL (888) 288-AETL • (818) 845-8200 • www.aetlab.com

NV5	AETL Job Number: BBJ0017	Site: Malibu High School
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	Morning View Drive
Long Beach, CA 90807	Attention: Jonathan Barkman	Malibu, CA
	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:16

Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: 3.1 °C

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y



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CHAIN OF CUSTODY RECORD

114322

Page 1 of 1

AETL JOB No. BBJ0017

PROJECT MANAGER: <u>MS. CMAA</u>						ANALYSIS REQUESTED						TEST INSTRUCTIONS & COMMENTS
COMPANY <u>NVS</u>						PHONE <u>562-495-5777</u>						
COMPANY ADDRESS <u>3777 Long Beach Blvd</u>						FAX <u>562-495-5877</u>						
PROJECT NAME <u>MMHS - Bldg J</u>						PROJECT # <u>MSD-20-959Z</u>						
SITE NAME AND ADDRESS <u>Malibu High School</u>						PO # <u>MSD-20-959Z</u>						
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.						
<u>2705-1</u>	<u>BBJ0017-01</u>	<u>9/30/20</u>	<u>1405</u>	<u>WIPE</u>	<u>100 cm²</u>							
<u>2722-1</u>	<u>BBJ0017-02</u>	<u>9/30/20</u>	<u>1415</u>	<u>WIPE</u>	<u>100 cm²</u>							
SAMPLE RECEIPT - TO BE FILLED BY LABORATORY						RELINQUISHED BY SAMPLER:		RELINQUISHED BY:		RELINQUISHED BY:		
TOTAL NUMBER OF CONTAINERS	PROPERLY COOLED	Y / N / NA							Signature: _____	Signature: <u>ANN TAYLOR</u>	Signature: _____	
CUSTODY SEALS	SAMPLES INTACT	Y / N / NA							Printed Name: <u>J. Bunker</u>	Printed Name: <u>CHAO WHITE</u>	Printed Name: _____	
RECEIVED IN GOOD COND.	SAMPLES ACCEPTED	Y / N							Date: <u>10/1/20</u>	Date: <u>10/1/20</u>	Date: <u>10/1/20</u>	
TURN AROUND TIME	DATA DELIVERABLE REQUIRED								RECEIVED BY:		RECEIVED BY:	
NORMAL <input checked="" type="checkbox"/>	SAME DAY								Signature: _____	Signature: <u>ANN TAYLOR</u>	Signature: _____	
<input checked="" type="checkbox"/> RUSH	NEXT DAY								Printed Name: _____	Printed Name: _____	Printed Name: _____	
	2 DAYS								Date: _____	Date: _____	Date: _____	
	3 DAYS								Date: _____	Date: _____	Date: _____	
	HARD COPY	<input type="checkbox"/>							Date: _____	Date: _____	Date: _____	
	PDF	<input checked="" type="checkbox"/>							Date: _____	Date: _____	Date: _____	
	GEOTRACKER (GLOBAL ID)	<input type="checkbox"/>							Date: _____	Date: _____	Date: _____	
	OTHER (PLEASE SPECIFY)	<input type="checkbox"/>							Date: _____	Date: _____	Date: _____	
									Date: _____	Date: _____	Date: _____	

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <u>NV5</u>			
Project Name:			
AETL Job Number: <u>BBJ0017</u>			
Date Received: <u>10/01/2020</u>		Received by: <u>Greta Giregossian</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GLS <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>1</u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3.1</u> °C, No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input type="checkbox"/> MeOH			
<input type="checkbox"/> Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	N/A		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:



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3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	Morning View Drive
Long Beach, CA 90807	Attention: Jonathan Barkman	Malibu, CA
	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:16

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBJ0017 Project Number: SMSD-20-9592 Attention: Jonathan Barkman Project Name: MMHS-Bldg J	Site: Malibu High School Morning View Drive Malibu, CA Reported: 10/02/2020 16:16
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Samples Received

AETL received the following samples on 10/01/2020 with the following specifications

Project Name: Malibu High School
 Site: Morning View Drive
 Malibu, CA

Client ID	Matrix	Sample Date
J705-1		09/30/2020 14:05
Lab ID		Quantity of Containers
BBJ0017-01	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	1

Client ID	Matrix	Sample Date
J722-2		09/30/2020 14:15
Lab ID		Quantity of Containers
BBJ0017-02	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	1

Total Number of Samples received: 2



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBJ0017 Project Number: SMSD-20-9592 Attention: Jonathan Barkman Project Name: MMHS-Bldg J	Site: Malibu High School Morning View Drive Malibu, CA Reported: 10/02/2020 16:16
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Positive Hits Summary

Lab ID	Client ID	Method	Analyte	Result	Qualifier	Unit	Received
BBJ0017-01	J705-1	EPA 8082	Aroclor-1260 (PCB-1260)	3.19	D	ug/100cm2	10/01/2020 15:36
							Analyzed
							10/02/2020 14:39

Lab ID	Client ID	Method	Analyte	Result	Qualifier	Unit	Received
BBJ0017-02	J722-2	EPA 8082	Aroclor-1260 (PCB-1260)	0.391		ug/100cm2	10/01/2020 15:36
							Analyzed
							10/02/2020 14:59



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3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	Morning View Drive
Long Beach, CA 90807	Attention: Jonathan Barkman	Malibu, CA
	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:16

Analytical Results

Client ID: J705-1

Lab ID: BBJ0017-01 (Wipe)

Sampled: 09/30/20 14:05

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:39	BJ00037	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:39	BJ00037	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:39	BJ00037	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:39	BJ00037	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:39	BJ00037	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:39	BJ00037	ATS	3540C
Aroclor-1260 (PCB-1260)	3.19	D	2	0.0400	0.100	ug/100cm2	10/01/20 15:16	10/02/20 14:39	BJ00037	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:39	BJ00037	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:39	BJ00037	ATS	3540C
			Recovery		Acceptance Criteria						
Surrogate: Decachlorobiphenyl	30.0%			30-150	10/01/20 15:16	10/02/20 14:39	BJ00037	ATS	3540C		
Surrogate: Tetrachloro-m-xylene	52.4%			30-150	10/01/20 15:16	10/02/20 14:39	BJ00037	ATS	3540C		



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	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:16

Analytical Results

Client ID: J722-2

Lab ID: BBJ0017-02 (Wipe)

Sampled: 09/30/20 14:15

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:59	BJ00037	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:59	BJ00037	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:59	BJ00037	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:59	BJ00037	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:59	BJ00037	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:59	BJ00037	ATS	3540C
Aroclor-1260 (PCB-1260)	0.391		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:59	BJ00037	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:59	BJ00037	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	10/01/20 15:16	10/02/20 14:59	BJ00037	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl
 Surrogate: Tetrachloro-m-xylene

43.7%
 94.8%

Acceptance Criteria

30-150
 30-150

10/01/20 15:16
 10/01/20 15:16

10/02/20 14:59
 10/02/20 14:59

BJ00037
 BJ00037

ATS
 ATS

3540C
 3540C



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	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:16

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0J0037 - 3540C											
Method Blank (B0J0037-BLK1)											
Prepared: 10/01/2020 15:16											
Analyzed: 10/02/2020 13:01											
Aroclor-1016 (PCB-1016)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1221 (PCB-1221)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1232 (PCB-1232)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1242 (PCB-1242)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1248 (PCB-1248)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1254 (PCB-1254)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1260 (PCB-1260)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1262 (PCB-1262)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1268 (PCB-1268)	ND	0.0200	0.0500	ug/100cm2							
Surrogate: Decachlorobiphenyl	0.0294			ug/100cm2	0.0500		58.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.0268			ug/100cm2	0.0500		53.5	30-150			



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	Project Name: MMHS-Bldg J	Reported: 10/02/2020 16:16

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0J0037 - 3540C (Continued)					Prepared: 10/01/2020 15:16						
LCS (B0J0037-BS1)					Analyzed: 10/02/2020 12:21						
Aroclor-1016 (PCB-1016)	0.982	0.0200	0.0500	ug/100cm2	1.00		98.2	50-150			
Aroclor-1260 (PCB-1260)	0.822	0.0200	0.0500	ug/100cm2	1.00		82.2	50-150			
<hr/>											
Surrogate: Decachlorobiphenyl	0.0539			ug/100cm2	0.0500		108	30-150			
Surrogate: Tetrachloro-m-xylene	0.0560			ug/100cm2	0.0500		112	30-150			
<hr/>											
LCSD (B0J0037-BSD1)					Analyzed: 10/02/2020 12:41						
Aroclor-1016 (PCB-1016)	0.912	0.0200	0.0500	ug/100cm2	1.00		91.2	50-150	7.32	40	
Aroclor-1260 (PCB-1260)	0.818	0.0200	0.0500	ug/100cm2	1.00		81.8	50-150	<1.00	40	
<hr/>											
Surrogate: Decachlorobiphenyl	0.0556			ug/100cm2	0.0500		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.0478			ug/100cm2	0.0500		95.6	30-150			



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Qualifiers and Definitions

Item	Qualifiers
D	Sample was analyzed under dilution due to matrix interference.
Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HC	Hydrocarbon
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl



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RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalent to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction