

March 25, 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 D Stormwater System

1 INTRODUCTION

This Clearance Letter presents information regarding the removal of sediment from stormwater catch basins, followed by high pressure water flushing of the stormwater collection and conveyance system around the former Building D footprint (herein identified as "Building D") at Malibu High School. This work was performed in accordance with the "Notification and Request for Approval, Sediment Removal and Disposal, Building D, Malibu High School, Malibu, CA, September 28, 2020," prepared by Ramboll (Work Plan) and approved by USEPA on October 2, 2020.

2 PROJECT BACKGROUND

Per the results of previous shallow soil and catch basin sampling work performed by Alta Environmental, LP, DBA NV5 (NV5) and as specified in the Ramboll Soil and Sediment Sampling Plan for Building D, Malibu High school, Malibu, California, dated June 5, 2020, analytical testing of dry sediment samples obtained from the stormwater collection system indicated Polychlorinated Biphenyls (PCBs) were present in localized areas at concentrations above the USEPA carcinogenic Regional Screening Level (RSL) of 0.24 mg/kg for Arochlor 1254.

The stormwater collection and conveyance system around the Building D location is comprised of two separate lines. One line starts in the vicinity of Building I and continues south between the Buildings D and F, continuing further south toward Morning View Drive. The other line starts on the north side of Building D and extends west toward Building H, then south around the end of Building D, and finally eastward. Two specific downstream manholes, one for each line, were identified as collection and recovery locations, where flushed liquids containing residual sediments were collected and removed. Figure 1 identifies the drainage system and the two downstream recovery manholes.

3 PROJECT OBSERVATIONS

Miller Environmental (Contractor) removed sediments from all catch basins around Building D, then flushed storm conveyance piping associated with each catch basin with hydro-jetting equipment, from the most

upstream catch basin on each line segment in the vicinity of Building D, to the identified downstream manholes, where flushed liquids were collected and removed for disposal.

Contractor personnel involved in removal and handling of dry catch basin sediments were 40-Hour HAZWOPER-trained per 29 CFR1910.120, and CCR Title 8, Section 5192.

The sequential scope of work for sediment removal and line flushing performed by the Contractor under the oversight of NV5 personnel is further described below.

- 1. Located all stormwater system catch basins around Building D, removed the steel grates and physically removed visible sediments by HEPA vacuuming both the catch basin, and the catch basin upper edge where the steel grate rests. All collected sediments were containerized in heavy duty plastic bags then placed inside a DOT-approved covered roll-off bin for disposal.
- 2. Temporarily plugged the discharge lines that exited each of the liquid recovery manholes with sandbags to retain flushed liquids inside the manhole. Access into manholes to place and remove sandbags was performed as a confined space entry.
- 3. The conveyance lines were flushed by hydro-jetting with potable water available on site, starting from the most upstream catch basin on each line, pushing liquids downstream ultimately to each designated recovery manhole.
- 4. All flushed liquids were removed from each recovery manhole with a vacuum truck and transferred to DOT-approved drums labeled as PCB remediation waste for temporary on site storage until waste profile efforts were completed. Liquid wastes were later transferred to a tanker truck for transportation and disposal.
- 5. After line flushing was complete, Contractor cleaned the steel grates and interior surfaces of each catch basin prior to reinstalling the steel grate. The steel grate and catch basin interior areas were wet-wiped with water-soaked rags, followed by wet wiping the bottoms of each catch basin with hexane-soaked rags. All soiled rags were placed in the same container as removed dry sediments for offsite disposal as a PCB Remediation Waste.

4 CONFIRMATION SAMPLING

Following removal activities, Miller and NV5 field personnel performed a final visual inspection of the catch basins and recovery manholes. Once the areas were found to be acceptably free of PCB-impacted materials, dust and other debris, NV5 collected clearance wipe samples for confirmation. Each wipe sample was collected on laboratory supplied gauze pads (or similar sampling media) in general accordance with the *Standard Wipe Test* procedure described in 40 CFR 761.123. The only reported PCB concentration was detected in sample CB-NW-2 (0.0685 µg/100cm²) and is below the EPA Region XI health-based benchmark of 1µg/100cm². Table 1 presents a summary of the laboratory analytical sampling results and the laboratory report and chain-of-custody documentation are included in Appendix A.

5 INVESTIGATION DERIVED WASTE

All containerized PCB Remediation Wastes were temporarily stored onsite within a temporary bermed drum storage area located on a concrete slab area to north of former Building D. All waste profiling was performed by Miller.

A total of 1,540 gallons of water associated with hydro-jetting of the drainage laterals, and approximately 0.1 cy of dry sediment from HEPA vacuuming of catch basins, were disposed of as PCB remediation Waste.

Hydro-jetting liquid wastes were shipped on December 8, 2020 to World Oil Recycling in Compton, California. Catch basin dry sediments were shipped in a bin with other PCB wastes from other on-site work



on December 15, 2020 to US Ecology in Beatty, Nevada. Shipping manifests for both waste streams are included in Appendix B.

6 CONCLUSIONS

Sediments and debris potentially impacted with PCBs within Malibu High School Building D stormwater system were appropriately removed and disposed, in accordance with the EPA-approved Work Plan.

7 SIGNATORY

Respectfully submitted by:

NV5

Jonathan Barkman

Project Manager

with

Bryan Stone, PE Vice President – Site Assessment and Remediation

Attachments:

Table 1 – Confirmation Wipe Sample ResultsAttachment A – Laboratory Analytical ReportsAttachment B – Waste Shipping Manifests





MMHS Building D Stormwater System – PCB Removal Clearance Letter

ATTACHMENT A

Table 1 – Wipe Sample Results



TABLE 1

Wipe Sample Analytical Results for PCBs Former Building D Stormwater Catch Basin System Malibu High School 30215 Morning View Dr. Malibu, CA 90265

CLIENT:	SMMUSD
PROJECT:	MMHS Bldg D, H, J PCB Removal
Date:	November 9, 2020

Building D

Sample	Bldg D Area	Component	Sample	Total PCBs	Notes
Number		Туре	Description	(µg/100cm)	
CB-NW-1	Northwest Stormdrain System	Concrete	Surface Wipe	ND<0.05	
CB-NW-2	Northwest Stormdrain System	Concrete	Surface Wipe	0.0685	Archlor-1254
CB-NW-3	Northwest Stormdrain System	Concrete	Surface Wipe	ND<0.05	
CB-NW-4	Northwest Stormdrain System	Concrete	Surface Wipe	ND<0.05	
CB-E1	East Stormdrain System	Concrete	Surface Wipe	ND<0.05	



MMHS Building D Stormwater System – PCB Removal Clearance Letter

ATTACHMENT B

Laboratory Analytical Report and Chain-of-Custody





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November 16, 2020

AETL Job No: BBK0139 Received Date: 11/09/2020 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: BldgD-Catch Basin
- Site: Malibu High School Bldg D 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:

arriet orosyan

Harriet Torosyan Project Manager

Approved By:

Corey Jones Project Manager

Table of Contents

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NV5	AETL Job Number:	BBK0139	Site:	Malibu High School Bldg D
3777 Long Beach Boulevard, Annex Building	Project Number:	SMSD-20-9592		30215 Morning View Dr
Long Beach, CA 90807	Attention:	Jonathan Barkman		Malibu, CA 90265
	Project Name:	BldgD-Catch Basin	Reported:	11/16/2020 10:34

Sample Condition on Receipt

Cooler ID: Default Cooler		Temperature: 3.2 °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



2834 N. NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP# 1541 & 2402 LACSD# 10181 TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

COOLER RECEIPT FORM

Client Name: NV 5				
Project Name:				
AETL Job Number: 38K0139				
Date Received: 11/09/9080 Rec	ceived	l by: (Gret	a Girpgoosian
Carrier: \square AETL Courier \square Client \square GSL \square FedEx \square UPS				
Others:				
Samples were received in: X Cooler ()	🗆 Ot	her (Spe	cify):	
Inside temperature of shipping container No	1:2,2	, No	2:	, No 3:
Type of sample containers: UOA, Glass 1	oottles,	Wid	le mou	th jars, \Box HDPE bottles,
□ Metal sleeves, □ Others (Specify):		· \		
How are samples preserved: 🗆 None, 🕅 Ice.	🗆 🗆 🛛	ue Ice,	$\Box D$	y Ice
🕅 None, 🗆 Hì	NO3, [] NaO	H, □	ZnOAc, \Box HCl, \Box Na ₂ S ₂ O ₃
□ MeOH, □ Na	aHSO4		,	· · · · · · · · · · · · · · · · · · ·
□ Other (Specify):				
	Yes	No*	N/A	Name, if client was notified.
1. Are the COCs Correct?	V			
2. Are Sample labels legible & indelible ink?	1			
3. Do samples match the COC?	VI			
4. Are the required analyses clear?	VI			
5. Is there enough samples for required analysis?	\checkmark			
6. Does cooler or samples have custody seal(s)?			1	
7. Are sample containers in good condition?	V			
8. Are samples preserved?	V			
9. Are samples preserved properly for the	1/			
intended analysis?				
10. Are the VOAs free of headspace?			V/	
11. Are the jars free of headspace?			\checkmark	
* = see note below. N/A = Not Applicable				

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		30215 Morning View Dr
Long Beach, CA 90807	Attention:	Jonathan Barkman		Malibu, CA 90265
	Project Name:	BldgD-Catch Basin	Reported:	11/16/2020 10:34

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.

Qualifiers are noted in the report.



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Long Beach, CA 90807	Attention:	Jonathan Barkman		Malibu, CA 90265
	Project Name:	BldgD-Catch Basin	Reported:	11/16/2020 10:34

Samples Received

AETL received the following samples on 11/09/2020 with the following specifications

Client ID Sample Date CB-NW-1 11/6/2020 11: Lab ID Matrix Quantity of Contain BBK0139-01 Wipe 1 Analysis Units TAT EPA 8082 ug/100cm2 5 Client ID Sample Date Client ID Sample Date Client ID Sample Date Client ID 11/6/2020 11:	10 ers
BBK0139-01Wipe1AnalysisUnitsTATEPA 8082ug/100cm25Client ID CB-NW-2Sample Date 11/6/2020 11:1	
AnalysisUnitsTATEPA 8082ug/100cm25Client ID CB-NW-2Sample Date 11/6/2020 11:	
EPA 8082 ug/100cm2 5 Client ID CB-NW-2 Sample Date 11/6/2020 11:	
Client ID Sample Date CB-NW-2 11/6/2020 11:	
)5
Lab ID Matrix Quantity of Contain	ers
BBK0139-02 Wipe 1	
Analysis Units TAT	
EPA 8082 ug/100cm2 5	
Client ID Sample Date CB-NW-3 11/6/2020 12:	00
Lab ID Matrix Quantity of Contain	ers
BBK0139-03 Wipe 1	
Analysis Units TAT	
EPA 8082 ug/100cm2 5	
Client ID Sample Date	
Lab ID Matrix Ouantity of Contain	ers
BBK0139-04 Wipe 1	
Analysis Units TAT	
EPA 8082 ug/100cm2 5	



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	Project Name:	BldgD-Catch Basin	Reported:	11/16/2020 10:34

Samples Received

(Continued)

AETL received the following samples on 11/09/2020 with the following specifications

Project Name: Malibu High School Bldg D Site: 30215 Morning View Dr Malibu, CA 90265

Client ID CB-E1		Sample Date 11/6/2020 11:45
Lab ID	Matrix	Quantity of Containers
BBK0139-05	Wipe	1
Analysis	Units	ТАТ
	ug/100cm2	5

Total Number of Samples received:

5



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NV5	AETL Job Number:	BBK0139	Site:	Malibu High School Bldg D
3777 Long Beach Boulevard, Annex Building	Project Number:	SMSD-20-9592		30215 Morning View Dr
Long Beach, CA 90807	Attention:	Jonathan Barkman		Malibu, CA 90265
	Project Name:	BldgD-Catch Basin	Reported:	11/16/2020 10:34

Positive Hits Summary

Lab ID	Client ID				Received
BBK0139-02	CB-NW-2				11/09/2020 17:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8082	Aroclor-1254 (PCB-1254)	0.0685		ug/100cm2	11/11/2020 16:43



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NV5	AETL Job Number:	BBK0139	Site:	Malibu High School Bldg D
3777 Long Beach Boulevard, Annex Building	Project Number:	SMSD-20-9592		30215 Morning View Dr
Long Beach, CA 90807	Attention:	Jonathan Barkman		Malibu, CA 90265
	Project Name:	BldgD-Catch Basin	Reported:	11/16/2020 10:34

Analytical Results

Lab ID: BBK0139-0	01 (Wipe)					Samp	oled: 11/06	5/20 11	:00	
Analyte	Result Qualif	er Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs										
Method:	EPA 8082									
Aroclor-1016 (PCB-1016)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1221 (PCB-1221)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1232 (PCB-1232)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1242 (PCB-1242)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1248 (PCB-1248)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1254 (PCB-1254)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1260 (PCB-1260)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1262 (PCB-1262)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1268 (PCB-1268)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
	Recovery			Acceptance	ce Criteria					
Surrogate: Decachlorobiphenyl	55.8%			30-150		11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Surrogate: Tetrachloro-m-xylene	79.7%			30-150		11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C



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Long Beach, CA 90807	Attention:	Jonathan Barkman		Malibu, CA 90265
	Project Name:	BldgD-Catch Basin	Reported:	11/16/2020 10:34

Analytical Results

Lab ID: BBK0139-0	02 (Wipe)						San	pled:	11/0	5/20 11	:05	
Analyte	Result Qu	alifier	Dilution	MDL	RL	Units	Prepared Date/Time	Ana Date	lyzed e/Time	Batch	Analyst Initials	Prep. Method
PCBs												
Method:	EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/	20 16:43	B0K0289	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/	20 16:43	B0K0289	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/	20 16:43	B0K0289	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/	20 16:43	B0K0289	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/	20 16:43	B0K0289	ATS	3540C
Aroclor-1254 (PCB-1254)	0.0685		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/	20 16:43	B0K0289	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/	20 16:43	B0K0289	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/	20 16:43	B0K0289	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/	20 16:43	B0K0289	ATS	3540C
	Recovery				Acceptanc	e Criteria						
Surrogate: Decachlorobiphenyl	67.8%				30-150		11/10/20 10:13	11/11/	20 16:43	B0K0289	ATS	3540C
Surrogate: Tetrachloro-m-xylene	103%				30-150		11/10/20 10:13	11/11/	20 16:43	B0K0289	ATS	3540C



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	Project Name:	BldgD-Catch Basin	Reported:	11/16/2020 10:34

Analytical Results

Lab ID: BBK0139-0	03 (Wipe)					Samp	oled: 11/06	5/20 12	2:00	
Analyte	Result Qualifie	er Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs										
Method:	EPA 8082									
Aroclor-1016 (PCB-1016)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1221 (PCB-1221)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1232 (PCB-1232)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1242 (PCB-1242)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1248 (PCB-1248)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1254 (PCB-1254)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1260 (PCB-1260)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1262 (PCB-1262)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1268 (PCB-1268)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
	Recovery			Acceptan	ce Criteria					
Surrogate: Decachlorobiphenyl	54.1%			30-150		11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Surrogate: Tetrachloro-m-xylene	84.6%			30-150		11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C



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Long Beach, CA 90807	Attention:	Jonathan Barkman		Malibu, CA 90265
	Project Name:	BldgD-Catch Basin	Reported:	11/16/2020 10:34

Analytical Results

Lab ID: BBK0139-0	04 (Wipe)					Sam	pled: 11/06	5/20 12	2:10	
Analyte	Result Qual	ifier Dilutio	n MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs										
Method:	EPA 8082									
Aroclor-1016 (PCB-1016)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:41	B0K0289	ATS	3540C
Aroclor-1221 (PCB-1221)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1232 (PCB-1232)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1242 (PCB-1242)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1248 (PCB-1248)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1254 (PCB-1254)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1260 (PCB-1260)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1262 (PCB-1262)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1268 (PCB-1268)	ND	1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
	Recovery			Acceptance	ce Criteria					
Surrogate: Decachlorobiphenyl	34.0%			30-150		11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Surrogate: Tetrachloro-m-xylene	93.8%			30-150		11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C



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Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34	NV5 3777 Long	Long Beach Boulevard, Annex Building Beach, CA 90807	AETL Job Number: Project Number: Attention: Project Name:	BBK0139 SMSD-20-9592 Jonathan Barkman BldgD-Catch Basin	Site: Reported:	Malibu High School Bldg D 30215 Morning View Dr Malibu, CA 90265 11/16/2020 10:34	
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Analytical Results

Client ID: CB-E1

Lab ID: BBK0139-0	05 (Wipe)						Sam	oled: 11/06	5/20 11	.:45	
Analyte	Result Qu	alifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs											
Method:	EPA 8082										
Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
	Recovery				Acceptanc	e Criteria					
Surrogate: Decachlorobiphenyl	85.1%				30-150		11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Surrogate: Tetrachloro-m-xylene	69.7%				30-150		11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: Project Number: Attention: Project Name:	BBK0139 SMSD-20-9592 Jonathan Barkman BldgD-Catch Basin	Site: Reported:	Malibu High School Bldg D 30215 Morning View Dr Malibu, CA 90265 11/16/2020 10:34	
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Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0K0289 - 3540C					Prepared:	11/10/2	020 10:13				
Method Blank (B0K0289-BLK1)					Analyzed:	11/11/2	020 12:12				
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	0.0345			ug/100cm2	0.0500		68.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.0504			ug/100cm2	0.0500		101	30-150			



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: Project Number: Attention: Project Name:	BBK0139 SMSD-20-9592 Jonathan Barkman BldgD-Catch Basin	Site: Reported:	Malibu High School Bldg D 30215 Morning View Dr Malibu, CA 90265 11/16/2020 10:34
	Project Name.	BlugD-Calcil Basili	Reported.	11/10/2020 10.54

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0K0289 - 3540C (Co	ntinued)				Prepared:	11/10/2	020 10:13				
LCS (B0K0289-BS1)	-				Analyzed:	11/11/2	020 11:33				
Aroclor-1016 (PCB-1016)	0.824	0.0200	0.0500	ug/100cm2	1.00		82.4	50-150			
Aroclor-1260 (PCB-1260)	0.729	0.0200	0.0500	ug/100cm2	1.00		72.9	50-150			
Surrogate: Decachlorobiphenyl	0.0403			ug/100cm2	0.0500		80.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.0437			ug/100cm2	0.0500		87.4	30-150			
LCSD (B0K0289-BSD1)					Analyzed:	11/11/2	020 11:53				
Aroclor-1016 (PCB-1016)	0.936	0.0200	0.0500	ug/100cm2	1.00		93.6	50-150	12.6	40	
Aroclor-1260 (PCB-1260)	0.805	0.0200	0.0500	ug/100cm2	1.00		80.5	50-150	9.91	40	
Surrogate: Decachlorobiphenyl	0.0398			ug/100cm2	0.0500		79.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.0447			ug/100cm2	0.0500		89.4	30-150			



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NV5	AETL Job Number:	BBK0139	Site:	Malibu High School Bldg D
3777 Long Beach Boulevard, Annex Building	Project Number:	SMSD-20-9592		30215 Morning View Dr
Long Beach, CA 90807	Attention:	Jonathan Barkman		Malibu, CA 90265
	Project Name:	BldgD-Catch Basin	Reported:	11/16/2020 10:34

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
С	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.
Ν	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 equivalant to LOQ.
RPD	Relative Percent Difference



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NV5 3777 Long Long Beach	Beach Boulevard, Annex Building , CA 90807	AETL Job Number: Project Number: Attention: Project Name:	BBK0139 SMSD-20-9592 Jonathan Barkman BldgD-Catch Basin	Site: Reported:	Malibu High School Bldg D 30215 Morning View Dr Malibu, CA 90265 11/16/2020 10:34
SIM	Selective Ion Monitoring				
SPLP	Synthetic Precipitation Leaching Proce	edure			
STLC	Soluble Threshold Limit Concentration	1			
TCLP	Toxicity Characteristic Leaching Proce	dure			
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				

MMHS Building D Stormwater System – PCB Removal Clearance Letter

APPENDIX C

Waste Manifests



W	FORM HAZARDOUS	1. Generator ID Number. CAC003	065879	2. Page 1 of 3. Er 1 80	nergency Respon D-451-8346	se Phone	4. Manifest	17acking N	1883	34 J.	JK
5. Ges 1	ANTA MONICA 651 10TH ST ANTA MONICA	MALIBU UNIFIED S	ICHOOL	Gene MA 302 MA	LIBU HIGH LIBU HIGH 215 MORNII LIBU (CA B	s (if different t SCHOO VG VIEW 10285	han mailing addres L VDR consist	s) Lifet heuve	Menahil III	est	
6. Tra	Insporter 1 Company Na IDC SPECIAL	WASTE SERVICE	nall (d. 1799) and and a second	na self tuble - 54-320 na self tuble (tuble) na na self (tuble) na self (tuble) na self (tuble)	પ્લાય કરવા માણવા પ્લાય પ્લાય કરવા માંગ મુખ્યત્વે મુખ્યત્વે છે.	ago ago ago Graef (1914) Graef (1914)	U.S. EPAID I	lumber A O 4 O /	018	180	1 1
7. Tra	RO TRUCKIN	ne" G nd Sile Address	24.11 24.11			nga s Nga ju		lumber O ()	004	590	13
A H B Facilit	MERICAN ECC WY 95,11 MIKE EATTY NV 390 ys Phone: 600 12	LOGY US ECOLOG S SOUTH BEATTY 103 39=3943	Andrew States and States	an a	Landi Kalent	i wiqan e atala an	INVT	3 3	001	000	i c
9a HM	9b. U.S. DOT Descrip and Packing Group (if	ion ⁴ (including Proper Shipping N any))	lame, Hazard Class, ID Number,	(p.)	10. Conta No.	iners Type	11. Total Quantity	12. Unit WL/Vol.	94394(san 5 10368(s 13 5	Waste Code	5
X	^{1.} UN3432, Holy 9, PGII	ohlorinated biphenyls	s, solid: 11 of one of the	rioupi eti lotulua letenia letenia	t to stack out t to state and tria	a Michaelo a bas phi CM	5000	भूमा अवस्थि अप राज प्रिय अप	181	281	
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						*		183	518	7	
14. Sp 14. Sp 3	ecial Handling Instructio ROFILE#0,792 E CONTRACT	ns and Additional Information 194800-0 BRICK 9026 (ERG#171	CONCRETE CON MILLER ENVI	raining do Ro	B CAULK	ING	12-C	20			ALL IN
15. G T E I Genera	ENERATOR'S/OFFERC tarked and labeled/placa porter, I certify that the certify that the waste min ator's/Offeror's Diffield/Ty	DR'S CERTIFICATION: I hereby rded, and are in all respects in p contents of this consignment co imization statement identified in med Name	y declare that the contents of this proper condition for transport acc morm to the terms of the attache 140 CFR 262.27(a) ((1 am a larg	e consignment are fully cording to applicable in ed EPA Acknowledgme ge quantity generator) Signature	y and accurately di iternational and na int of Consent. or (b) (if I am a sm	escribed abov tional governm all quantity ge	e by the proper sh nental regulations. merator) is true.	loping nam If export sh	e, and are cla lipment and I Mor	ssified, pácka am the Prima nth Day	iged iry
16. Inte Transp	ernational Shipments porter signature (for expo	Import to U.S.	- Ilys E	Export from U.S.	Port of er Date leav	ntry/exit:	An	2	<u></u> /	2 10	
17. Tra Transpo	nsporter Acknowledgmer orter 1 Printed/Typed Na	It of Receipt of Materials	CODAL	Signature	11:00	in	MAN		. Mor	nth Day	1
Transp	orter 2 Printed/Typed Na	G. TAK	EIAN	Signature	1	12		2 2	Mor	nth Day 21/4	
18a. Di	screpancy Indication Sp	ace 🗌 Quantity	Туре		Residue		Partial Reje	oction		Full Reje	ction
16b. Alt Facility' 16c. Sk	temate Facility (or Gener 's Phone: gnature of Attemate Faci	ator) lity (or Generator)			Manifest Referenc	e Nymber:	U.S. EPA ID N	umber	1 Ma	nth Dav	1
					1 12	8.1.14	1.	·			1



Ticket: 1662

US Ecology Nevada 11 Miles South of Beatty Beatty, NV 89003

TICKE

735187

Vehicle: 226

Manifest #:019418848JJK

Date: 12/15/2020 Time In: 12:15 PM Time Out: 01:33 PM

In: 59180 lb Out: 52520 lb Net: 6660 lb

Net Tons:3.33 tons Net Kg: 3021 kilograms

ease print or type.		· ·						Form	n Approved	OMB No	2050-0039
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	8087378	2. Page 1 1	of 3. Emergency R (714)	esponse Ph 990-68	ione 155	4. Manifest	Tracking N 370	293	0	FLE
5. Generator's Name and Mai Santa Monice	Malibu USD			Generator's Site	ddress (if d	liferent the Scho	in mailing addre	99)			
1651 16th Stree	t			30215 M	oming	View	Drive				
Santa Monica, C Generator's Phone:	CA 90404	(310) 4	450-8338	Santa M	onica, (CA 90	265				
6. Transporter 1 Company Na Nileto and Sone	me Taucking Inc	The second se					U.S. EPAID	Number	0 4 0 A	4.0	
7. Transporter 2 Company Na		unter and the second		and a star difference of a support				VOU	0101	10	
							1	191110101			
8. Designated Facility Name a	and Site Address						U.S. EPA ID	Number			
2000 N. Alamed Compton, CA 90 Facility's Phone:	la Street	(310) 5	537-7100					080	D133	5 2	
9a. 9b. U.S. DOT Descrij	otion (including Proper Shippi	ng Name, Hazard Class, ID	Number,	10	Containers	5	11. Total	12. Unit	13	Waste Cod	DE
HM and Packing Group (i	f any))			No		Туре	Quantity	Wt./Vol.	13.	Waste Coo	
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14. Special Handling Instruction Wear All Approvements Protective C 15. GENERATOR'S/OFFER marked and labeled/plate Exporter. I certify that the waste m	ons and Additional Informatio propriate Cothing COR'S CERTIFICATION: I has arded, and are in all respects a contents of this consignment information statement identifiation	n ereby declare that the conter s in proper condition for trans t conform to the terms of the at in 40 CFR 262 27(a) (ft 1	nts of this consignme sport according to ap e attached EPA Ackn am a larae cuantibu c	ant are fully and accur pplicable international iowledgment of Conse penerator) or (b) (if (La	Nie ttely describ ind national nt. a small qu	sto PO	120720 by the proper sh rital regulations.	ipping name if export shi	a, and are class	ssified, pac am the Prin	laged, hary
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14. Special Handling Instruction Wear All Approtective C 15. GENERATOR'S/OFFER marked and labeled/plac Exporter, I certify that the icertify that the vaste m Generator's/Offeror's Pripted/ Ward	ons and Additional Informatio propriate Cothing COR'S CERTIFICATION: The arded, and are in all respects a consignment inimization statement identified Typed Name Swith	n ereby declare that the conter s in proper condition for trans it conform to the terms of the ed in 40 CFR 262.27(a) (if 1 May	nts of this consignme sport according to ap e attached EPA Ackn am a large quantity g	ent are fully and accur oplicable international iowledgment of Conse generator) or (b) (iff an Signature	Nie tely describ ind national nt. na small qu	sto PO	120720 by the proper shintal regulations. eralor) is true.	ipping name	e, and are class ipment and 1 Mor	isified, pace am the Prin 12 0	aged, ary Year 20
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