

SECOND SEMI-ANNUAL 2020 – AIR & WIPE SAMPLING

Malibu High School

Buildings H, G, and F

August 10, 2020

Prepared For:

Santa Monica-Malibu Unified School District

Facilities Improvements Projects

2828 4th Street

Santa Monica, CA 90405

N|V|5

NV5 – Alta Environmental
3777 Long Beach Blvd, Annex Building
Long Beach, CA 90807
Phone: 562.495.5777

SMSD-20-9426

EXECUTIVE SUMMARY

On behalf of the Santa Monica-Malibu Unified School District (District), Alta Environmental DBA NV5 has prepared this report summarizing the second semi-annual 2020 sampling event completed for select buildings within the Malibu High School campus, located at 30215 Morning View Drive, Malibu, California 90265. The sampling activities were conducted to investigate the potential presence of detectable polychlorinated biphenyl (PCB) compounds in ambient air and on non-porous surfaces, if any, within Buildings G, H, and F.

Concentrations of PCB Aroclor-1254 were only detected in wipe samples collected from select non-porous surfaces within Buildings H and G, ranging from 0.061 $\mu\text{g}/\text{cm}^2$ to 0.317 $\mu\text{g}/\text{cm}^2$. The reported concentrations are below the EPA Region XI health-based benchmark.

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REPORTED:	August 10, 2020	PROJECT NO.:	SMSD-20-9426
CLIENT:	Santa Monica-Malibu Unified School District Facility Improvements Projects 2828 4 th Street Santa Monica, California 90405		
ATTENTION:	Mr. Carey Upton		
REF:	Semi-Annual PCB Sampling Report Malibu High School 30215 Morning View Drive Malibu, CA, 90265		

1.0 PROJECT BACKGROUND

The Santa Monica-Malibu Unified School District (District) retained Alta Environmental DBA NV5 (NV5) to conduct quarterly air and wipe sampling services for Malibu High School, located at 30215 Morning View Drive, Malibu, CA 90265. This report presents the findings of our second semi-annual 2020 sampling event.

2.0 PURPOSE OF INSPECTION AND SAMPLING

The objective of the quarterly sampling program is to monitor concentration trends of detectable polychlorinated biphenyl (PCB) compounds in ambient air and on non-porous surfaces, if any, within select buildings on the Malibu High School campus.

3.0 SCOPE OF SERVICES

During the course of our investigation, NV5 collected a total of 7 air samples (including 2 ambient background samples) and a total of 22 wipe samples (including 2 duplicate samples).

4.0 METHODOLOGY

During this sampling event, NV5 conducted air and wipe sampling within Malibu High School Building H (1 location), Building G (4 location), and Building F (2 locations). Figures depicting the sample locations are presented in Appendix A.

Following collection, each sample was properly packaged, labeled, and stored within a chilled cooler pending transport to American Environmental Testing Laboratory (AETL), located in Burbank, California. All samples were prepared for analysis by the laboratory using EPA Method 3540 (Soxhlet extraction) and were analyzed for PCBs using EPA Method TO-10A for the air samples and EPA Method 8082A for the wipe samples. The following sections provide a brief overview of the methodologies used to conduct the quarterly air and wipe sampling at Malibu High School.

4.1 AIR SAMPLING

Each air sample was collected utilizing a calibrated pump to draw air through laboratory supplied polyurethane foam cartridges at a flow rate of approximately 5 liters per minute, for approximately 24 hours. The air samples were collected at breathing zone height and without the use of pre-filters.

4.2 WIPE SAMPLING

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. Following collection, each sample was properly packaged, labeled, and recorded on a chain-of-custody for transport to Enviro-Chem, Inc.

5.0 RESULTS

5.1 AIR SAMPLING

Based on the reported laboratory results, concentrations of PCBs were not detected in any of the analyzed air samples.

For reference, the following table presents USEPA's criteria for evaluating exposure levels in indoor air at school sites:

<u>Age in Years Range</u>	<u>1 to <2</u>	<u>2 to <3</u>	<u>3 to <6</u>	<u>6 to <12</u>	<u>12 to <15</u>	<u>15 to <19</u>	<u>19 +</u>
PCBs ng/m ³	100	100	200	300	500	600	500

5.2 WIPE SAMPLING

Based on the reported laboratory results, concentrations of PCBs were not detected in any of the analyzed wipe samples, with the exception of the following:

<u>Sample Location</u>	<u>Sample Number</u>	<u>Total PCBs (µg/100cm²)¹</u>
Building H, Room 605B, Brown laminate counter	605B-W1	0.061 J ²
Building G, Room 501, Wood laminate table	501-W1	0.147
Building G, Room 501, Gray rolled on flooring	501-W2	0.120

<u>Sample Location</u>	<u>Sample Number</u>	<u>Total PCBs ($\mu\text{g}/100\text{cm}^2$)¹</u>
Building G, Room 501, Black meta file cabinet	501-W3	0.148
Building G, Room 510B, Wood laminate table	501B-W1	0.160
Building G, Room 510B, Blue rolled on flooring	501B-W2	0.317
Building G, Room 510B, Tan laminate table	501B-W3	0.182
Building G, Room 502, Gray rolled on flooring	502-W1	0.209
Building G, Room 502, Wood laminate table	502-W2	0.178
Building G, Room 502, Brown metal cabinet	502-W3	0.179

Notes:

- 1) $\mu\text{g}/100\text{cm}^2$ = micrograms per 100 square centimeters;
- 2) A "J-flag" designation indicates that the reported concentration was detected above the method detection limit, but below the laboratory's practical quantitative limit.

All reported concentrations are below the EPA Region XI health-based benchmark of $1\mu\text{g}/100\text{cm}^2$.

6.0 QUALITY CONTROL

Quality control (QC) field-blank and duplicate samples were collected during this investigation as methods to evaluate sampling and analytical precision. NV5 collected 2 ambient background samples and 3 duplicate samples during the course of this investigation. Laboratory results of the QC samples were reported within acceptable limits.

As mentioned above, AETL analyzed all air and wipe samples during this quarterly sampling event. AETL is accredited by the California Environmental Laboratory Accreditation Program. Based on a review of the laboratory quality control data associated with the sample analysis, the recovery and precision are within the acceptable limits of the laboratory.

7.0 CONCLUSIONS

Concentrations of PCB Aroclor-1254 were detected in wipe samples collected from Buildings H and G ranging from 0.061 J $\mu\text{g}/\text{cm}^2$ to 0.317 $\mu\text{g}/\text{cm}^2$. The reported concentrations are below the EPA Region XI health-based benchmark.

8.0 ASSUMPTIONS AND LIMITATIONS

This report was prepared exclusively for use by the District and may not be relied upon by any other person or entity without NV5's express written permission. The information, conclusions and recommendations described in this report apply to conditions existing at certain locations when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. NV5 cannot be responsible for the impact of any changes in environmental standards, practices or regulations after performance of services.

In performing our professional services, we have applied present engineering and scientific judgment and used a level of effort consistent with the current standard of practice for similar types of studies.

As applicable, NV5 has relied in good faith upon representations and information furnished by individuals with respect to operations and existing property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, NV5 accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

NV5 will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report. NV5 makes no warranty, expressed or implied.

This report is issued with the understanding that the client, the property owner, or its representative is responsible for ensuring that the information, conclusions, and recommendations contained herein are brought to the attention of the appropriate regulatory agencies, as required.

NV5's investigation and the conclusions and recommendations generated as a result reflect a subjective evaluation of limited data and thus may not be representative of all conditions present at the site. If you have any questions, please feel free to call the undersigned at (562) 495-5777.

9.0 SIGNATORY

Respectfully submitted by:

NV5



Jonathan Barkman
Project Manager

Reviewed by:

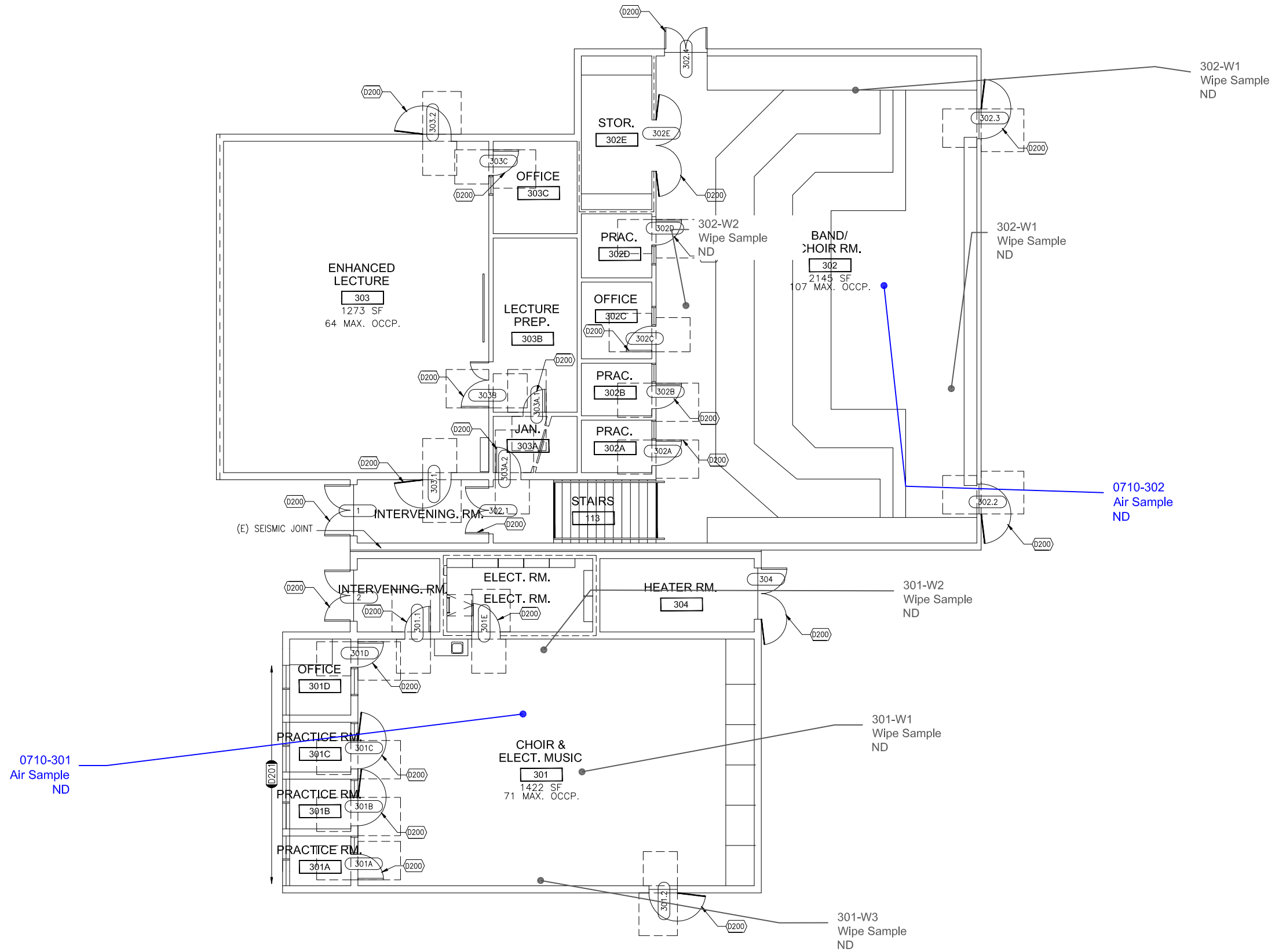
NV5



David R. Schack
Vice President, Building Sciences

Appendix A

Figures



Legend

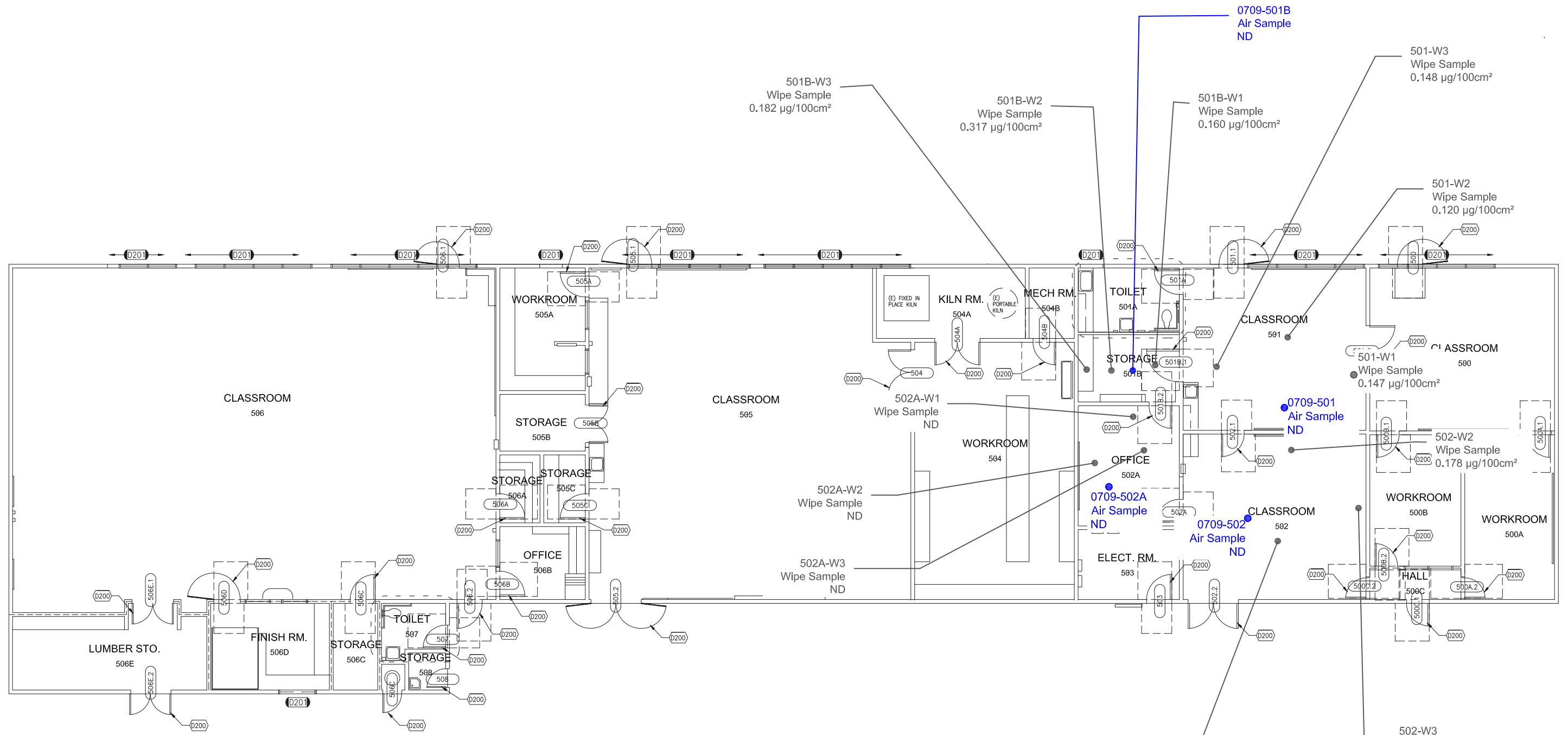
- Air Sample
- Wipe Sample

Sample Location Map - Building F - Second Semi-Annual 2020 Sampling

Malibu High School
 30215 Morning View Drive
 Malibu, California



3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
 P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ www.altanviron.com
 DATE: August 2020 | Project No.: SMSD-20-9426



Legend

- Air Sample
- Wipe Sample

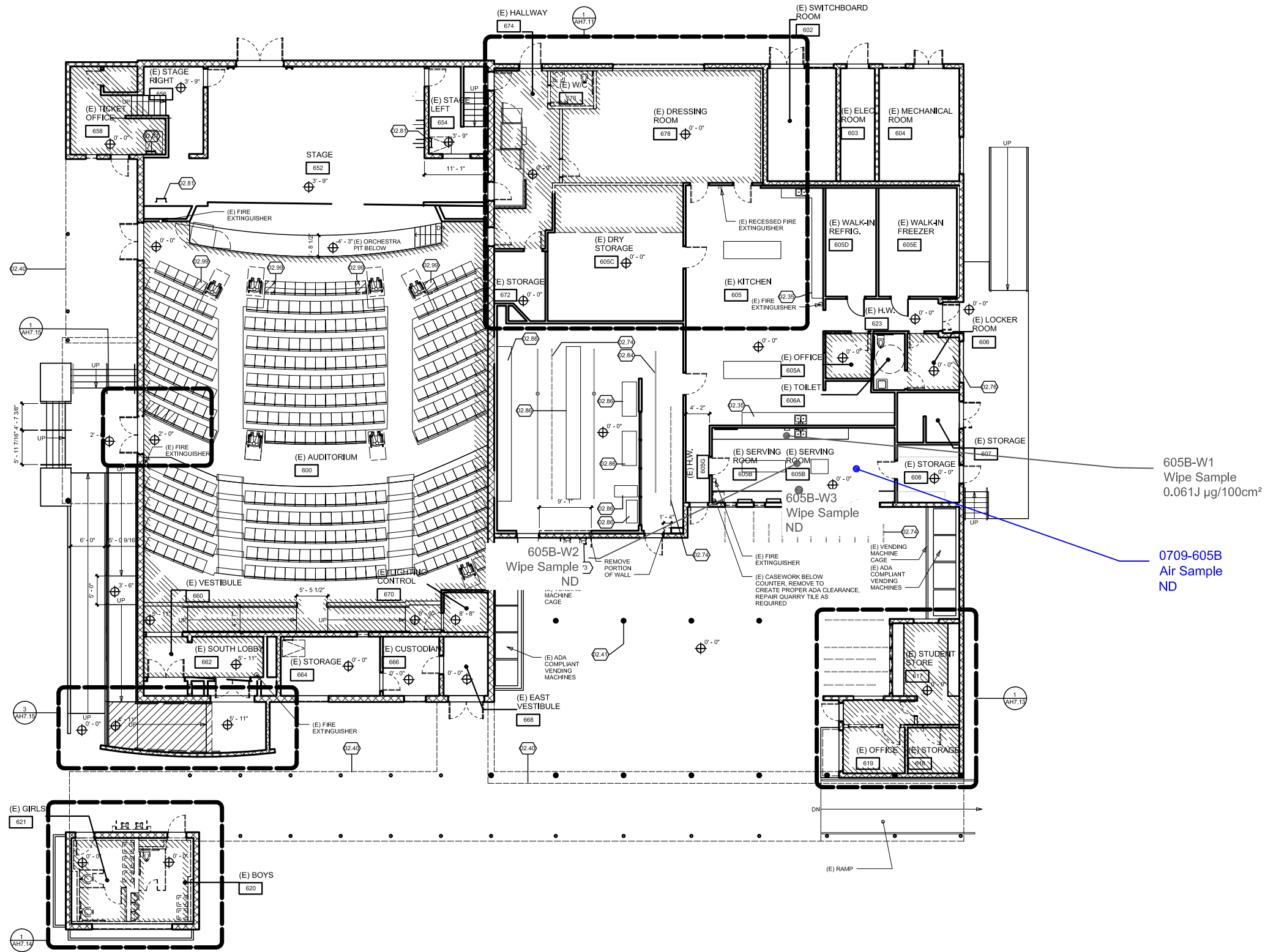
Sample Location Map - Building G - Second Semi-Annual 2020 Sampling

Malibu High School
30215 Morning View Drive
Malibu, California



3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ www.altanviron.com

DATE: August 2020 | Project No.: SMSD-20-9426



Legend

- Air Sample
- Wipe Sample

Sample Location Map - Building H - Second Semi-Annual 2020 Sampling

Malibu High School
 30215 Morning View Drive
 Malibu, California



3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
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DATE: August 2020 Project No.: SMSD-20-9426

Appendix B

Sample Inventories

Summary of Malibu High School Air Sampling Results

CLIENT: SMMUSD
PROJECT: SMSD-20-9426
PROJECT: Malibu High School Quarterly Sampling - 2nd Semi-Annual Event 2020
Date: July 9 - 10, 2020

Building	Room Placard ID	Room Description	Sampling Date ^[a]	Sample ID	Total PCBs (ng/m ³)
H	605B	Serving Room	7/9/2020	0709-605B	ND
G	502A	Office	7/9/2020	0709-502A	ND
G	501	Special Ed	7/9/2020	0709-501	ND
G	501B	Laundry	7/9/2020	0709-501B	ND
G	502	Special Ed	7/9/2020	0709-502	ND
F	302	Band Room	7/9/2020	0709-302	ND
F	301	Choir Room	7/10/2020	0710-301	ND
Ambient	N/A	N/A	7/10/2020	0710-A	ND
Ambient	N/A	N/A	7/9/2020	0709-A	ND

Notes:

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

Abbreviations:

ng/m³ = nanograms per cubic meter

ND = compound was analyzed for but not detected above the laboratory reporting limit

NA = Not Applicable

Summary of Malibu High School Surface Wipe Sampling Results

CLIENT: SMMUSD
PROJECT NO: SMSD-20-9426
PROJECT: Malibu High School Quarterly Sampling - 2nd Semi-Annual Event 2020
Date: July 9 - 10, 2020

Building	Floor Plan ID	Component Description	Sampling Date	Sample ID	Total PCBs (µg/100cm ²)
H	605B	Brown laminate counter	7/10/2020	605B-W1	0.061J
		Red 9" floor tile	7/10/2020	605B-W2	ND
		Metal counter	7/10/2020	605B-W3	ND
G	502A	Stovetop	7/10/2020	502A-W1	ND
		Brown laminate counter	7/10/2020	502A-W2	ND
		Blue rolled on flooring	7/10/2020	502A-W3	ND
	501	Wood laminate table	7/10/2020	501-W1	0.147
		Gray rolled on flooring	7/10/2020	501-W2	0.120
		Black metal file cabinet	7/10/2020	501-W3	0.148
	501B	Wood laminate table	7/10/2020	501B-W1	0.160
		Blue rolled on flooring	7/10/2020	501B-W2	0.317
		Tan laminate table	7/10/2020	501B-W3	0.182
	502	Gray rolled on flooring	7/10/2020	502-W1	0.209
		Wood laminate table	7/10/2020	502-W2	0.178
		Brown metal cabinet	7/10/2020	502-W3	0.179
		Brown metal cabinet (duplicate)	7/10/2020	502-W4	ND
F	302	Wood flooring	7/10/2020	302-W1	ND
		Blue metal locker	7/10/2020	302-W2	ND
		Green window sill	7/10/2020	302-W3	ND
	301	Wood bench	7/10/2020	301-W1	ND
		Concrete floor	7/10/2020	301-W2	ND
		Concrete floor (duplicate)	7/10/2020	301-W3	ND

Notes:

µg/100cm² = microgram per 100 square centimeters

PCB = polychlorinated biphenyl

J = A"J-flag" designation indicates that the reported concentration was detected above the method detection limit, but below the laboratory's practical quantitative limit

Appendix C

Laboratory Reports



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

NV5
3777 Long Beach Blvd.
Long Beach, CA 90807-

Number of Pages 12
Date Received 07/10/2020
Date Reported 07/21/2020

Telephone: (562)495-5777
Attention: Jonathan Barkman

Job Number	Order Date	Client
105379	07/10/2020	NV5

Project ID: SMSD-20-9592
Project Name: Malibu High School
Site: Malibu High School
30215 Morning View Drive
Malibu, CA 90265

Enclosed please find results of analyses of 7 gaseous and 22 solid samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Joe Sevrean
Laboratory Director



A KYZER LABS COMPANY

AMERICAN ENVIRONMENTAL TESTING LABORATORY

2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP # 1541 LACSD# 10181

TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

BB60088

105379 120167

AETL JOB No.

Page 1 of 2

COMPANY NVS / Alta Environmental PROJECT MANAGER Jonathan Barkman
 COMPANY ADDRESS Annex 3777 Long Beach Blvd, Long Beach CA PHONE _____
 PROJECT NAME Malibu High School PROJECT # SMSD-20-9592
 SITE NAME AND ADDRESS Malibu High School PO # _____

				ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS					
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 8082	Soxhlet	Extraction				
0709-605B	105379.01	7/9/20	1005	AIR	1	ICE	*	*	X				
0709-502A	105379.02		1018				*	*	X				
0709-501	105379.03		1042				*	*	X				
0709-501B	105379.04		1041				*	*	X				
0709-502	105379.05		1042				*	*	X				
0709-302	105379.06		1057				*	*	X				
0709-A	105379.07		1103				*	*	X				
605B-W1	105379.08	7/10/20	1010	WIPE	1		X	X					
605B-W2	105379.09		1015				X	X					
605B-W3	105379.10		1020				X	X					
502A-W1	105379.11		1022				X	X					
502A-W2	105379.12		1027				X	X					
502A-W3	105379.13		1032				X	X					
501-W1	105379.14		1045				X	X					
502-W2	105379.15		1050				X	X					

TOTAL NUMBER OF CONTAINERS: 15

RELINQUISHED BY SAMPLER: Alondra Villanueva 1. Signature: _____
 RELINQUISHED BY: 2. Signature: _____
 RELINQUISHED BY: 3. Signature: _____

BILLING INFORMATION / SPECIAL INSTRUCTIONS
cc Jonathan Barkman

Signature: Alondra Villanueva
 Printed Name: Alondra Villanueva
 Date: 7/10/20 Time: 1331

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) _____

RECEIVED BY: 1. Signature: _____
 RECEIVED BY: 2. Signature: _____
 RECEIVED BY LABORATORY: ACTL 3. Signature: _____
 Date: 7/10/20 Time: 1331



A KYZER LABS COMPANY

AMERICAN ENVIRONMENTAL TESTING LABORATORY

2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP # 1541 LACSD# 10181

TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

BSE0088

CHAIN OF CUSTODY RECORD

120168

AETL JOB No. 105379

Page 2 of 2

COMPANY: NVS/Alta Environmental
 PROJECT MANAGER: Jonathan Barkman
 COMPANY ADDRESS: 3777 Long Beach Blvd Annex, Long Beach, CA
 PHONE: Jonathan.Barkman@NVS
 PROJECT NAME: Malibu High School
 PROJECT #: SM5D-20-9592
 SITE NAME AND ADDRESS: Malibu High School
 PO #:

ANALYSIS REQUESTED

TEST INSTRUCTIONS & COMMENTS

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 8082	Soxhelt Extraction
501-W3	105379.16	7/10/20	1055	WIPE	1	ICE	X	X
501B-W1	105379.17		1100				X	X
501B-W2	105379.18		1105				X	X
501B-W3	105379.19		1110				X	X
502-W1	105379.20		1115				X	X
502-W2	105379.21		1120				X	X
502-W3	105379.22		1125				X	X
502-W4	105379.23		1130				X	X
302-W1	105379.24		1135				X	X
302-W2	105379.25		1140				X	X
302-W3	105379.26		1145				X	X
301-W1	105379.27		1150				X	X
301-W2	105379.28		1155				X	X
301-W3	105379.29		1200				X	X

TOTAL NUMBER OF CONTAINERS: 14

RELINQUISHED BY SAMPLER: 1. RELINQUISHED BY: 2. RELINQUISHED BY: 3.

BILLING INFORMATION / SPECIAL INSTRUCTIONS

Jonathan Barkman

Signature: Alondra Villanueva
 Printed Name: Alondra Villanueva
 Date: 7/10/20 Time: 1331

TURN AROUND TIME

DATA DELIVERABLE REQUIRED

- NORMAL SAME DAY RUSH NEXT DAY RUSH
 2 DAYS RUSH 3 DAYS RUSH 4 DAYS RUSH

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

RECEIVED BY: 1. RECEIVED BY: 2. RECEIVED BY LABORATORY: AETL 3.
 Signature: _____
 Printed Name: _____
 Date: 7/10/20 Time: 1331

Corey Jones

From: Jonathan Barkman <Jonathan.Barkman@nv5.com>
Sent: Monday, July 20, 2020 11:05 AM
To: Corey Jones
Subject: Malibu Air Volumes

Hi Corey, Please see the table below for the sample id air flow volumes:

Sample ID	Volume (L)
0709-605B	7,275.6
0709-502A	7,246.6
0709-501	7,383.9
0709-501B	7,406.3
0709-502	7,225.0
0709-302	7,201.55
0709-A	7,252.8

Regards,

Jonathan Barkman | Project Manager | **NV5**
3777 Long Beach Boulevard, Annex Building | Long Beach, CA 90807 |
O: 562.495.5777 | D: 562.489.9730 | C: 310.920.8404
www.NV5.com | www.altaenviron.com | [Electronic Communications Disclaimer](#)

Alta Environmental is now NV5



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AMERICAN ENVIRONMENTAL TESTING LABORATORY

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: <u>NV5</u>			
Project Name:			
AETL Job Number: <u>105379</u>			
Date Received: <u>7/10/2020</u>		Received by: <u>AYLIN</u>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GSO <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>3.7</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 checked="" type="checkbox"/> Others (Specify): <u>Air Tubes - WIPS</u>			
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 type="checkbox"/> Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>✓</u>		
2. Are the Sample labels legible?	<u>✓</u>		
3. Do samples match the COC?	<u>✓</u>		
4. Are the required analyses clear?	<u>✓</u>		
5. Is there enough samples for required analysis?	<u>✓</u>		
6. Are samples sealed with evidence tape?	<u>N/A</u>		
7. Are sample containers in good condition?	<u>✓</u>		
8. Are samples preserved?	<u>✓</u>		
9. Are samples preserved properly for the intended analysis?	<u>✓</u>		
10. Are the VOAs free of headspace?	<u>N/A</u>		
11. Are the jars free of headspace?	<u>✓</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:



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Page: 1 A

Ordered By

NV5
3777 Long Beach Blvd.
Long Beach, CA 90807-

Project ID: SMSD-20-9592
Date Received 07/10/2020
Date Reported 07/21/2020

Telephone: (562) 495-5777
Attention: Jonathan Barkman

Job Number	Order Date	Client
105379	07/10/2020	NV5

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 29 samples with the following specification on 07/10/2020.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
105379.01	0709-6005B	07/09/2020	Gaseous	1
105379.02	0709-502A	07/09/2020	Gaseous	1
105379.03	0709-501	07/09/2020	Gaseous	1
105379.04	0709-501B	07/09/2020	Gaseous	1
105379.05	0709-502	07/09/2020	Gaseous	1
105379.06	0709-302	07/09/2020	Gaseous	1
105379.07	0709-A	07/09/2020	Gaseous	1
Method ^ Submethod	Req Date	Priority	TAT	Units
TO-10A ^ PCB-NG/M3	07/17/2020	2	Normal	ng/m3
Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
105379.08	605B-W1	07/10/2020	Solid	1
105379.09	605B-W2	07/10/2020	Solid	1
105379.10	605B-W3	07/10/2020	Solid	1
105379.11	502A-W1	07/10/2020	Solid	1
105379.12	502A-W2	07/10/2020	Solid	1
105379.13	502A-W3	07/10/2020	Solid	1
105379.14	501-W1	07/10/2020	Solid	1
105379.15	501-W2	07/10/2020	Solid	1
105379.16	501-W3	07/10/2020	Solid	1
105379.17	501B-W1	07/10/2020	Solid	1
105379.18	501B-W2	07/10/2020	Solid	1
105379.19	501B-W3	07/10/2020	Solid	1
105379.20	502-W1	07/10/2020	Solid	1
105379.21	502-W2	07/10/2020	Solid	1
105379.22	502-W3	07/10/2020	Solid	1

Continued



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Page: 1 B

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Long Beach, CA 90807-

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Attention: Jonathan Barkman

Job Number	Order Date	Client
105379	07/10/2020	NV5

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

105379.23	502-W4	07/10/2020	Solid	1
105379.24	302-W1	07/10/2020	Solid	1
105379.25	302-W2	07/10/2020	Solid	1
105379.26	302-W3	07/10/2020	Solid	1
105379.27	301-W1	07/10/2020	Solid	1
105379.28	301-W2	07/10/2020	Solid	1
105379.29	301-W3	07/10/2020	Solid	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082) ^ WIPE-2	07/17/2020	2	Normal	ug/100cm2

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

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

Checked By: 

Approved By: 

Joe Sevran
Laboratory Director



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Attn: Jonathan Barkman

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Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105379	07/10/2020	NV5

Method: TO-10A, PCB Compounds in Ambient Air using Low Volume Sampling

QC Batch No: 071020ZB1

Our Lab I.D.		Method Blank	105379.01	105379.02	105379.03	105379.04	
Client Sample I.D.			0709-6005B	0709-502A	0709-501	0709-501B	
Date Sampled			07/09/2020	07/09/2020	07/09/2020	07/09/2020	
Date Prepared		07/10/2020	07/10/2020	07/10/2020	07/10/2020	07/10/2020	
Preparation Method		3540C	3540C	3540C	3540C	3540C	
Date Analyzed		07/13/2020	07/13/2020	07/13/2020	07/13/2020	07/14/2020	
Matrix		Gaseous	Gaseous	Gaseous	Gaseous	Gaseous	
Units		ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	14	50	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	28	90	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	14	50	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	14	50	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	14	50	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	14	50	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	14	50	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	14	50	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	14	50	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	105379.01	105379.02	105379.03	105379.04	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		38.4	45.8	47.4	65.0	55.6
Tetrachloro-m-xylene	30-150		64.0	76.0	86.6	59.2	63.8



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 Long Beach, CA 90807-

Site

Malibu High School
 30215 Morning View Drive
 Malibu, CA 90265

Telephone: (562)495-5777

Attn: Jonathan Barkman

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Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105379	07/10/2020	NV5

Method: TO-10A, PCB Compounds in Ambient Air using Low Volume Sampling

QC Batch No: 071020ZB1

Our Lab I.D.			105379.05	105379.06	105379.07		
Client Sample I.D.			0709-502	0709-302	0709-A		
Date Sampled			07/09/2020	07/09/2020	07/09/2020		
Date Prepared			07/10/2020	07/10/2020	07/10/2020		
Preparation Method			3540C	3540C	3540C		
Date Analyzed			07/14/2020	07/14/2020	07/14/2020		
Matrix			Gaseous	Gaseous	Gaseous		
Units			ng/m3	ng/m3	ng/m3		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Aroclor-1016 (PCB-1016)	14	50	ND	ND	ND		
Aroclor-1221 (PCB-1221)	28	90	ND	ND	ND		
Aroclor-1232 (PCB-1232)	14	50	ND	ND	ND		
Aroclor-1242 (PCB-1242)	14	50	ND	ND	ND		
Aroclor-1248 (PCB-1248)	14	50	ND	ND	ND		
Aroclor-1254 (PCB-1254)	14	50	ND	ND	ND		
Aroclor-1260 (PCB-1260)	14	50	ND	ND	ND		
Aroclor-1262 (PCB-1262)	14	50	ND	ND	ND		
Aroclor-1268 (PCB-1268)	14	50	ND	ND	ND		
Our Lab I.D.			105379.05	105379.06	105379.07		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		42.8	38.0	74.4		
Tetrachloro-m-xylene	30-150		67.4	40.0	54.6		



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Attn: Jonathan Barkman

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Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105379	07/10/2020	NV5

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 071020ZB2

Our Lab I.D.			Method Blank	105379.08	105379.09	105379.10	105379.11
Client Sample I.D.				605B-W1	605B-W2	605B-W3	502A-W1
Date Sampled				07/10/2020	07/10/2020	07/10/2020	07/10/2020
Date Prepared			07/10/2020	07/10/2020	07/10/2020	07/10/2020	07/10/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			07/14/2020	07/14/2020	07/14/2020	07/14/2020	07/14/2020
Matrix			Solid	Solid	Solid	Solid	Solid
Units			ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	0.061J	ND	ND	ND
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	105379.08	105379.09	105379.10	105379.11
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		37.4	43.6	47.2	42.6	33.8
Tetrachloro-m-xylene	30-150		52.0	72.0	69.4	70.4	52.2



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 Malibu, CA 90265

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Attn: Jonathan Barkman

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Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105379	07/10/2020	NV5

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 071020ZB2

Our Lab I.D.			105379.12	105379.13	105379.14	105379.15	105379.16
Client Sample I.D.			502A-W2	502A-W3	501-W1	501-W2	501-W3
Date Sampled			07/10/2020	07/10/2020	07/10/2020	07/10/2020	07/10/2020
Date Prepared			07/10/2020	07/10/2020	07/10/2020	07/10/2020	07/10/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			07/14/2020	07/14/2020	07/14/2020	07/14/2020	07/14/2020
Matrix			Solid	Solid	Solid	Solid	Solid
Units			ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	ND	0.147	0.120	0.148
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND	ND
Our Lab I.D.			105379.12	105379.13	105379.14	105379.15	105379.16
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		34.2	38.8	41.6	41.2	40.8
Tetrachloro-m-xylene	30-150		101	64.6	73.8	86.2	99.6



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 30215 Morning View Drive
 Malibu, CA 90265

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Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105379	07/10/2020	NV5

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 071020ZB2

Our Lab I.D.			105379.17			
Client Sample I.D.			501B-W1			
Date Sampled			07/10/2020			
Date Prepared			07/10/2020			
Preparation Method			3540C			
Date Analyzed			07/14/2020			
Matrix			Solid			
Units			ug/100cm2			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Aroclor-1016 (PCB-1016)	0.05	0.10	ND			
Aroclor-1221 (PCB-1221)	0.05	0.10	ND			
Aroclor-1232 (PCB-1232)	0.05	0.10	ND			
Aroclor-1242 (PCB-1242)	0.05	0.10	ND			
Aroclor-1248 (PCB-1248)	0.05	0.10	ND			
Aroclor-1254 (PCB-1254)	0.05	0.10	0.160			
Aroclor-1260 (PCB-1260)	0.05	0.10	ND			
Aroclor-1262 (PCB-1262)	0.05	0.10	ND			
Aroclor-1268 (PCB-1268)	0.05	0.10	ND			
Our Lab I.D.			105379.17			
Surrogates	%Rec.Limit		% Rec.			
Decachlorobiphenyl	30-150		37.6			
Tetrachloro-m-xylene	30-150		59.4			



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 Malibu, CA 90265

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Attn: Jonathan Barkman

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Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105379	07/10/2020	NV5

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 071120ZB1

Our Lab I.D.			Method Blank	105379.18	105379.19	105379.20	105379.21
Client Sample I.D.				501B-W2	501B-W3	502-W1	502-W2
Date Sampled				07/10/2020	07/10/2020	07/10/2020	07/10/2020
Date Prepared			07/11/2020	07/11/2020	07/11/2020	07/11/2020	07/11/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			07/14/2020	07/14/2020	07/14/2020	07/14/2020	07/14/2020
Matrix			Solid	Solid	Solid	Solid	Solid
Units			ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	0.317	0.182	0.209	0.178
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	105379.18	105379.19	105379.20	105379.21
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		52.4	49.4	52.6	44.6	65.0
Tetrachloro-m-xylene	30-150		83.4	88.4	112	61.8	49.6



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 30215 Morning View Drive
 Malibu, CA 90265

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Attn: Jonathan Barkman

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Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105379	07/10/2020	NV5

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 071120ZB1

Our Lab I.D.			105379.22	105379.23	105379.24	105379.25	105379.26
Client Sample I.D.			502-W3	502-W4	302-W1	302-W2	302-W3
Date Sampled			07/10/2020	07/10/2020	07/10/2020	07/10/2020	07/10/2020
Date Prepared			07/11/2020	07/11/2020	07/11/2020	07/11/2020	07/11/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			07/14/2020	07/14/2020	07/14/2020	07/14/2020	07/14/2020
Matrix			Solid	Solid	Solid	Solid	Solid
Units			ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	0.179	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND	ND
Our Lab I.D.			105379.22	105379.23	105379.24	105379.25	105379.26
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		53.4	41.6	45.6	45.8	59.6
Tetrachloro-m-xylene	30-150		45.8	70.4	81.0	99.2	99.2



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 30215 Morning View Drive
 Malibu, CA 90265

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Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105379	07/10/2020	NV5

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 071120ZB1

Our Lab I.D.			105379.27	105379.28	105379.29		
Client Sample I.D.			301-W1	301-W2	301-W3		
Date Sampled			07/10/2020	07/10/2020	07/10/2020		
Date Prepared			07/11/2020	07/11/2020	07/11/2020		
Preparation Method			3540C	3540C	3540C		
Date Analyzed			07/14/2020	07/14/2020	07/14/2020		
Matrix			Solid	Solid	Solid		
Units			ug/100cm2	ug/100cm2	ug/100cm2		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND		
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND		
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND		
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND		
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND		
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	ND	ND		
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND		
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND		
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND		
Our Lab I.D.			105379.27	105379.28	105379.29		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		47.4	41.6	55.2		
Tetrachloro-m-xylene	30-150		66.4	105	80.8		



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 30215 Morning View Drive
 Malibu, CA 90265

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Attn: Jonathan Barkman

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Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105379	07/10/2020	NV5

Method: TO-10A, PCB Compounds in Ambient Air using Low Volume Sampling

QC Batch No: 071020ZB1; LCS: Blank; LCS Prepared: 07/10/2020; LCS Analyzed: 07/13/2020; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Aroclor-1016 (PCB-1016)	1,000	1,360	136	1,000	1,400	140	2.90	40-140	<40	
Aroclor-1260 (PCB-1260)	1,000	976	97.6	1,000	1,020	102	4.41	40-140	<40	
Surrogates										
Decachlorobiphenyl	50.0	27.8	55.6	50.0	27.8	55.6	<1	30-150	<30	
Tetrachloro-m-xylene	50.0	38.4	76.8	50.0	49.8	99.6	25.9	30-150	<30	



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Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105379	07/10/2020	NV5

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 071020ZB2; LCS: Blank; LCS Prepared: 07/10/2020; LCS Analyzed: 07/14/2020; Units: ug/100cm2

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	454	90.8	500	422	84.4	7.31	50-150	<20	
Aroclor-1260 (PCB-1260)	500	450	90.0	500	414	82.8	8.33	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	34.0	68.0	50.0	25.8	51.6	#27.4	30-150	<20	
Tetrachloro-m-xylene	50.0	39.8	79.6	50.0	42.0	84.0	5.38	30-150	<20	



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QUALITY CONTROL RESULTS

Ordered By

NV5
 3777 Long Beach Blvd.
 Long Beach, CA 90807-

Site

Malibu High School
 30215 Morning View Drive
 Malibu, CA 90265

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 12

Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105379	07/10/2020	NV5

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 071120ZB1; LCS: Blank; LCS Prepared: 07/11/2020; LCS Analyzed: 07/14/2020; Units: ug/100cm2

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	444	88.8	500	426	85.2	4.14	50-150	<20	
Aroclor-1260 (PCB-1260)	500	415	83.0	500	497	99.4	18.0	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	26.6	53.2	50.0	28.6	57.2	7.25	30-150	<20	
Tetrachloro-m-xylene	50.0	38.6	77.2	50.0	45.6	91.2	16.6	30-150	<20	



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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Long Beach, CA 90807-

Telephone: (562)495-5777
Attention: Jonathan Barkman

Number of Pages 3
Date Received 07/13/2020
Date Reported 07/20/2020

Job Number	Order Date	Client
105394	07/13/2020	NV5

Project ID: SMSD-20-9592
Project Name: Air & Wipe Quarterly
Site: Malibu High School
30215 Morning View Drive.
Malibu, CA 90265

Enclosed please find results of analyses of 2 gaseous samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Joe Sevran
Laboratory Director



A KYZER LABS COMPANY

AMERICAN ENVIRONMENTAL TESTING LABORATORY

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

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COOLER RECEIPT FORM

Client Name: <i>Alta</i>			
Project Name:			
AETL Job Number: <i>105394</i>			
Date Received: <i>7/13/20</i>		Received by: <i>Ant/Sargis</i>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GSO <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>3-7</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 type="checkbox"/> Ice, <input checked="" 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>Y</i>		
2. Are the Sample labels legible?	<i>Y</i>		
3. Do samples match the COC?	<i>Y</i>		
4. Are the required analyses clear?	<i>Y</i>		
5. Is there enough samples for required analysis?	<i>Y</i>		
6. Are samples sealed with evidence tape?	<i>Y</i>		
7. Are sample containers in good condition?	<i>Y</i>		
8. Are samples preserved?	<i>Y</i>		
9. Are samples preserved properly for the intended analysis?	<i>Y</i>		
10. Are the VOAs free of headspace?	<i>N/A</i>		
11. Are the jars free of headspace?	<i>J</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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Page: 1 A

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Project ID: SMSD-20-9592
Date Received 07/13/2020
Date Reported 07/20/2020

Telephone: (562) 495-5777
Attention: Jonathan Barkman

Job Number	Order Date	Client
105394	07/13/2020	NV5

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 07/13/2020.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
105394.01	0710-301	07/10/2020	Gaseous	1
105394.02	0710-A	07/10/2020	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-10A ^ PCB-NG/M3	07/20/2020	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: 

Approved By: 

Joe Sevrean
Laboratory Director



American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

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 3777 Long Beach Boulevard
 Annex Building
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Malibu High School
 30215 Morning View Drive.
 Malibu, CA 90265

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Page: 2

Project ID: SMSD-20-9592

Project Name: Air & Wipe Quarterly

AETL Job Number	Submitted	Client
105394	07/13/2020	NV5

Method: TO-10A, PCB Compounds in Ambient Air using Low Volume Sampling

QC Batch No: 071420ZB1

Our Lab I.D.		Method Blank	105394.01	105394.02		
Client Sample I.D.			0710-301	0710-A		
Date Sampled			07/10/2020	07/10/2020		
Date Prepared		07/14/2020	07/14/2020	07/14/2020		
Preparation Method		3540C	3540C	3540C		
Date Analyzed		07/15/2020	07/15/2020	07/15/2020		
Matrix		Gaseous	Gaseous	Gaseous		
Units		ng/m3	ng/m3	ng/m3		
Dilution Factor		1	1	1		
Analytes	MDL	PQL	Results	Results	Results	
Aroclor-1016 (PCB-1016)	14	50	ND	ND	ND	
Aroclor-1221 (PCB-1221)	28	90	ND	ND	ND	
Aroclor-1232 (PCB-1232)	14	50	ND	ND	ND	
Aroclor-1242 (PCB-1242)	14	50	ND	ND	ND	
Aroclor-1248 (PCB-1248)	14	50	ND	ND	ND	
Aroclor-1254 (PCB-1254)	14	50	ND	ND	ND	
Aroclor-1260 (PCB-1260)	14	50	ND	ND	ND	
Aroclor-1262 (PCB-1262)	14	50	ND	ND	ND	
Aroclor-1268 (PCB-1268)	14	50	ND	ND	ND	
Our Lab I.D.		Method Blank	105394.01	105394.02		
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150	48.2	53.2	46.8		
Tetrachloro-m-xylene	30-150	72.0	117	70.4		



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Project Name: Air & Wipe Quarterly

AETL Job Number	Submitted	Client
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Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Aroclor-1016 (PCB-1016)	500	405	81.0	500	600	120	38.8	40-140	<40	
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Surrogates										
Decachlorobiphenyl	50.0	27.5	55.0	50.0	24.9	49.8	9.9	30-150	<30	
Tetrachloro-m-xylene	50.0	21.0	42.0	50.0	30.3	60.6	36.3	30-150	<30	



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Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference
