



FOURTH QUARTER 2019 – AIR & WIPE SAMPLING

Malibu High School
Buildings D, F, G, H and J
30215 Morning View Drive
Malibu, California 90265

Prepared for:

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

Project No.: SMSD-18-8201
Reported Date: January 28, 2020

EXECUTIVE SUMMARY



On behalf of the Santa Monica-Malibu Unified School District (District), Alta Environmental (Alta) has prepared this report summarizing the fourth quarter 2019 (4Q2019) sampling activities 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 D, F, G, H, and J.

The concentration of PCB Aroclor-1254 detected in the Building D, Room 101A air sample was reported as 15.1 ng/m³. Based on the age of students and staff occupying these areas, the reported concentrations are below the USEPA's criteria for evaluating exposure levels in indoor air at school sites.

Concentrations of PCB Aroclor-1254 were detected in wipe samples collected from Buildings D, F, and G ranging from 0.0.052J µg/cm² to 0.238 µg/cm². The reported concentrations are below the EPA Region XI health-based benchmark.

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REPORTED: January 28, 2020

PROJECT NO.: SMSD-18-8201

CLIENT: Santa Monica-Malibu Unified School District
Facility Improvements Projects
2828 4th Street
Santa Monica, California 90405

ATTENTION: Mr. Carey Upton

REF: Quarterly PCB Sampling Report
Malibu High School
30215 Morning View Drive
Malibu, CA, 90265

1 PROJECT BACKGROUND

The Santa Monica-Malibu Unified School District (District) retained Alta Environmental (Alta), an NV5 company, 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 fourth quarter 2019 (4Q2019) sampling event.

2 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 SCOPE OF SERVICES

During the course of our investigation, Alta collected a total of 23 air samples (including 3 ambient background samples) and a total of 72 wipe samples (including 3 duplicate and 3 field-blank samples).

4 METHODOLOGY

During the 4Q2019 sampling event, Alta conducted air and wipe sampling within Malibu High School Building D (11 locations), Building F (1 location), Building G (2 locations), Building H (5 locations) and Building J (1 location). 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 RESULTS

5.1 Air Sampling

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

<u>Sample Location</u>	<u>Sample Number</u>	<u>Total PCBs (ng/m³)</u>
Building D, Room 101A	1220-D-101A	15.1

Note: ng/m³ = nanograms per cubic meter

The results of these samples were compared to the USEPA's criteria for evaluating exposure levels in indoor air at school sites. The criteria are as follows:

<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/100 cm²)</u>
Building D, Room 102, Floor Tile	1222-D-102-W1	0.062J
Building D, Room 120 Wooden Table	1222-D-120-W1	0.238
Building D, Room 204 Floor Tile	1222-D-204-W1	0.052J

<u>Sample Location</u>	<u>Sample Number</u>	<u>Total PCBs (µg/100 cm²)</u>
Building F, Room 303 Floor Tile	1221-F-303-W1	0.099J
Building F, Room 303 Wooden Bench	1221-F-303-W2	0.059J
Building G, Room 504 Wooden Bookshelf	1221-G-504-W2	0.187
Building G, Room 505 Metal File Cabinet	1221-G-505-W3	0.075J

Notes: 1) µg/100cm²= 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.

The results of these samples were compared with the EPA Region XI health-based benchmark of 1µg/100cm².

6 QUALITY CONTROL

Quality control (QC) field-blank and duplicate samples were collected during this investigation as methods to evaluate sampling and analytical precision. Alta collected 3 field-blank 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 CONCLUSIONS

The concentration of PCB Aroclor-1254 detected in the Building D, Room 101A air sample was reported as 15.1 ng/m³. Based on the age of students and staff occupying these areas, the reported concentrations are below the USEPA's criteria for evaluating exposure levels in indoor air at school sites.

Concentrations of PCB Aroclor-1254 were detected in wipe samples collected from Buildings D, F, and G ranging from 0.0.052J µg/cm² to 0.238 µg/cm². The reported concentrations are below the EPA Region XI health-based benchmark.

8 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 Alta'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. Alta 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, Alta 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, Alta accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

Alta will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report. Alta 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.

Alta Environmental'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 SIGNATORY

Respectfully submitted by:

Alta Environmental

Reviewed:

Alta Environmental



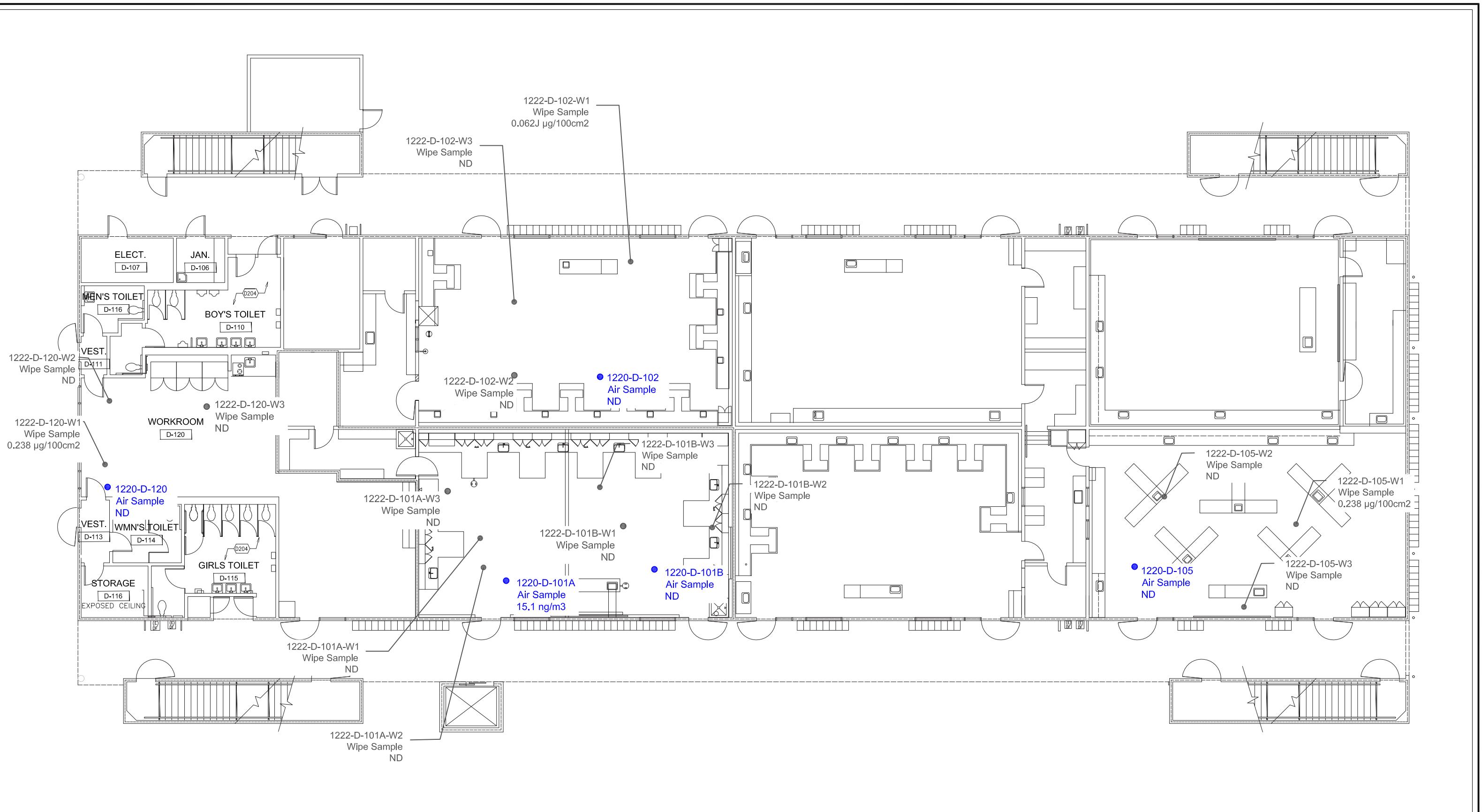
Jonathan Barkman
Project Manager



David R. Schack
Vice President, Building Sciences

Appendix A

Figures



Legend

- Air Sample
- Wipe Sample

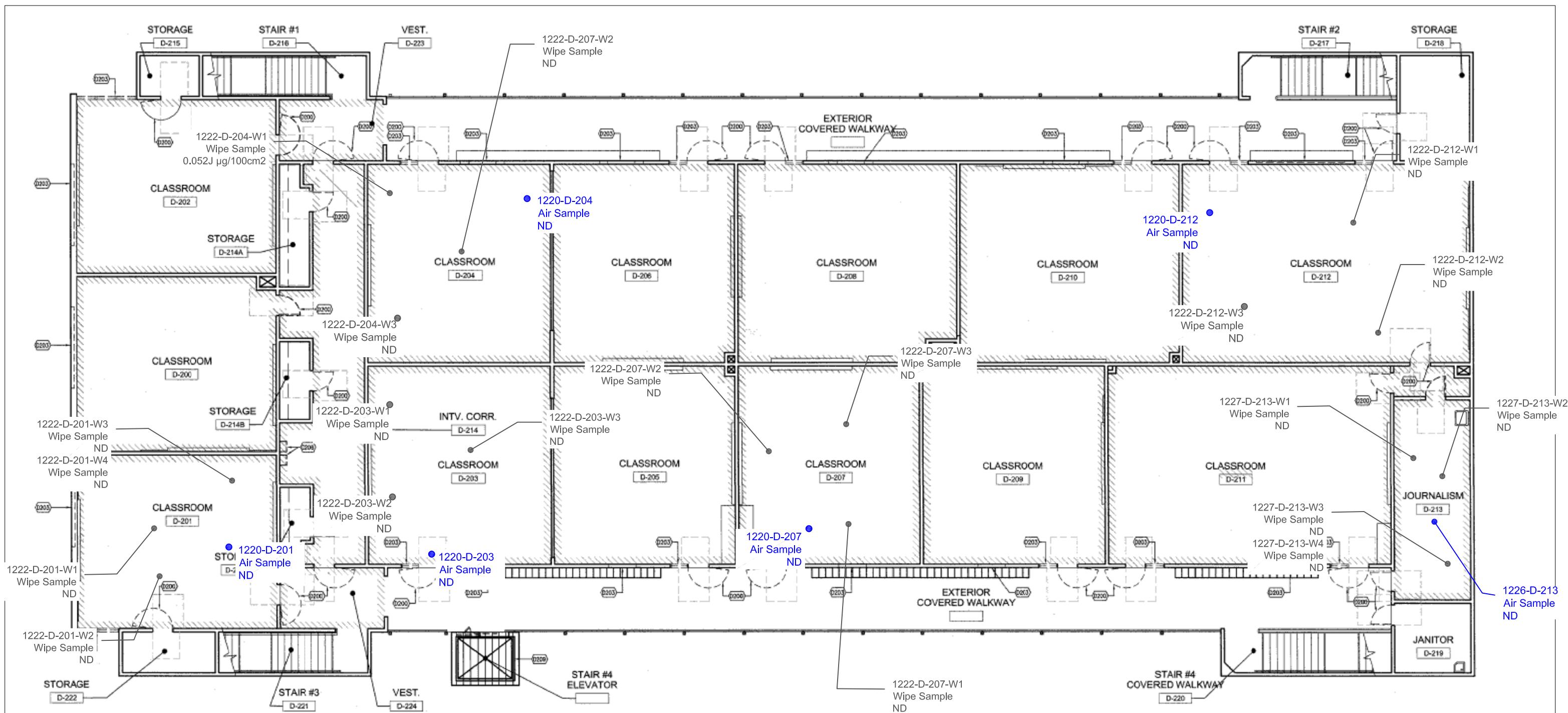
Sample Location Map - Building D (F1) - Quarterly Sampling

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.altaenviro.com

DATE: January 2020 | Project No.: SMSD-18-8201



Legend

- Air Sample
- Wipe Sample

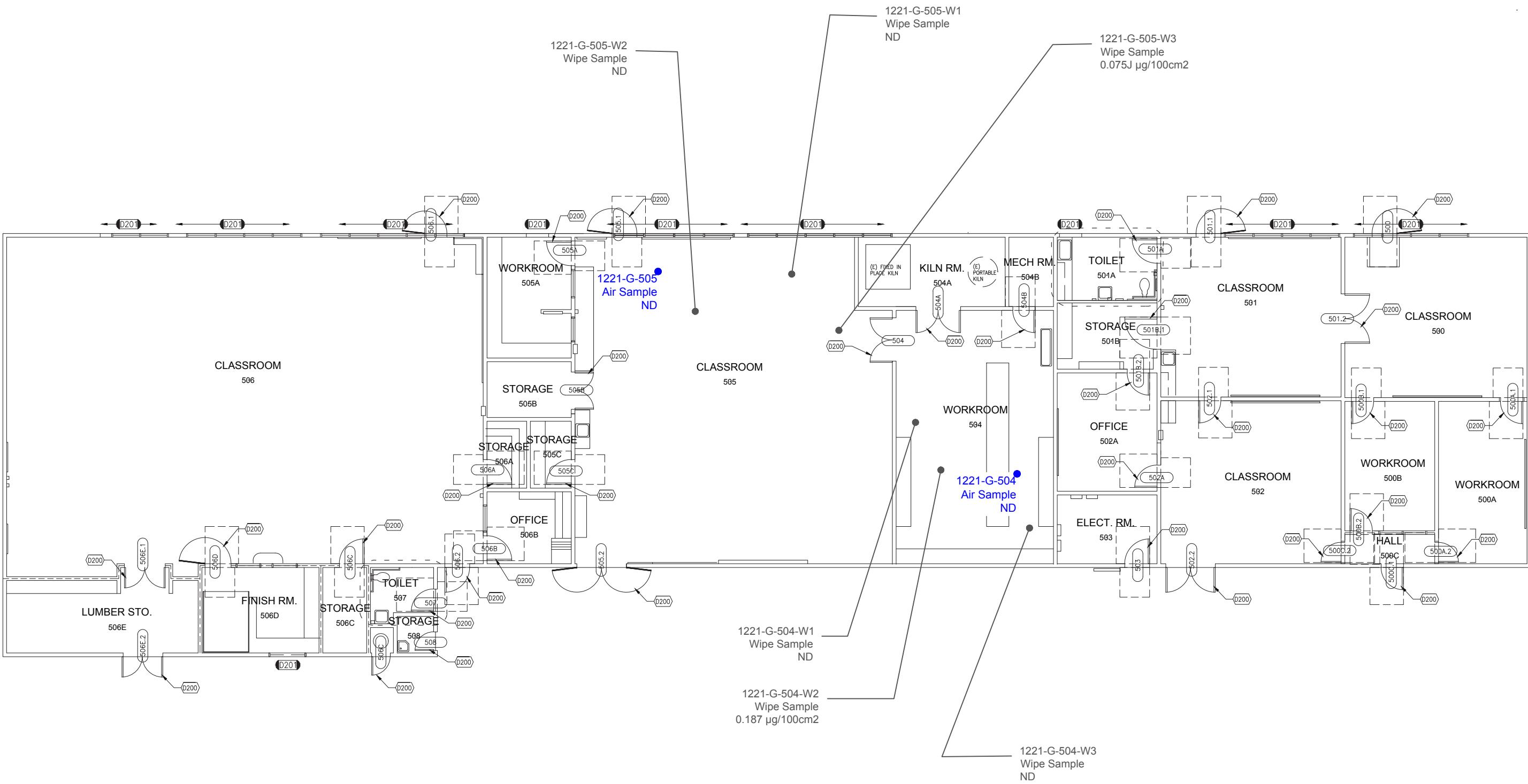
Sample Location Map - Building D (F2) - Quarterly Sampling

Malibu High School
30215 Morning View Drive
Malibu, California



3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
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Legend

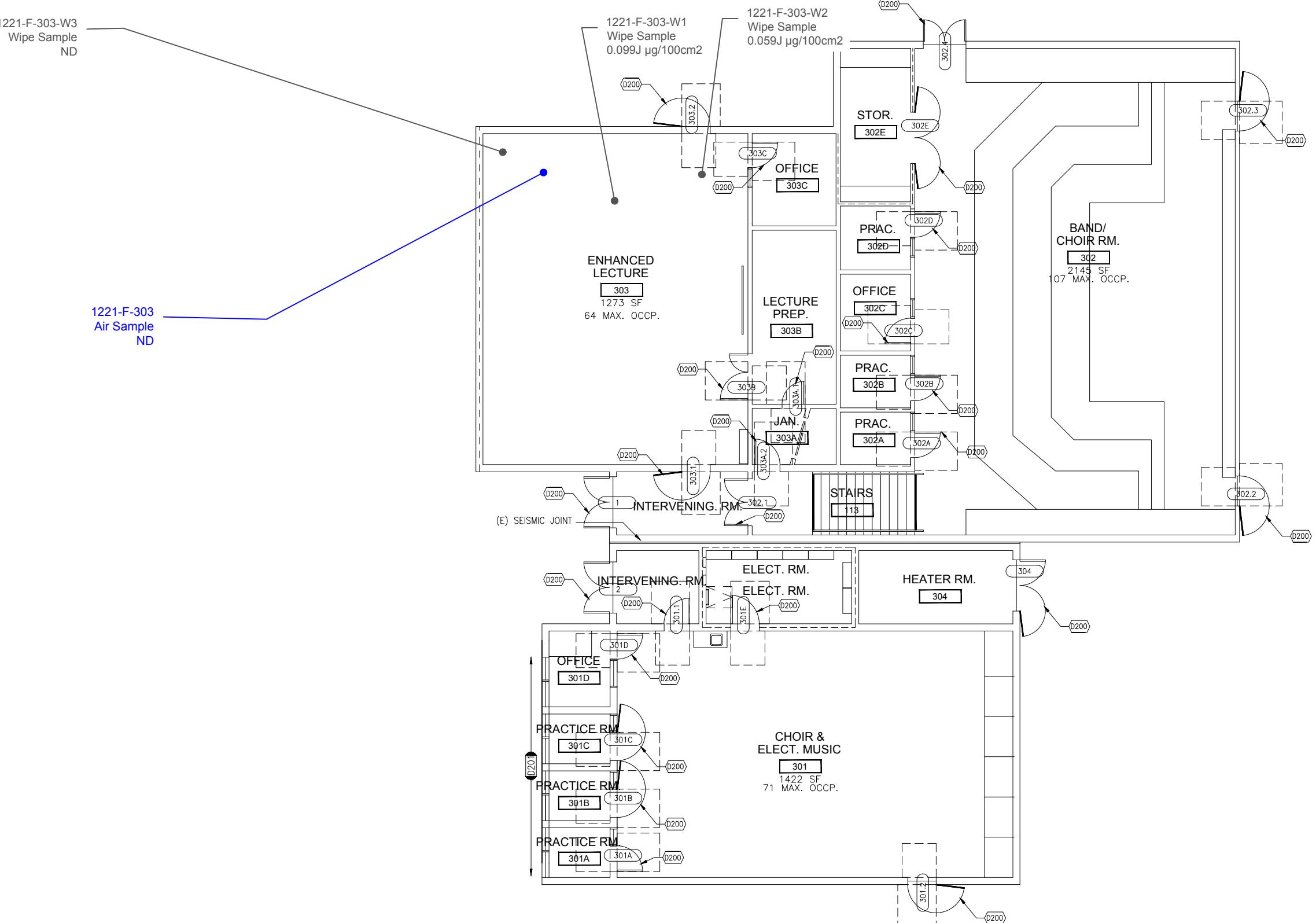
- Air Sample
- Wipe Sample

Sample Location Map - Building G - Quarterly Sampling

Malibu High School
30215 Morning View Drive
Malibu, California



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AN NV5 COMPANY
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Legend

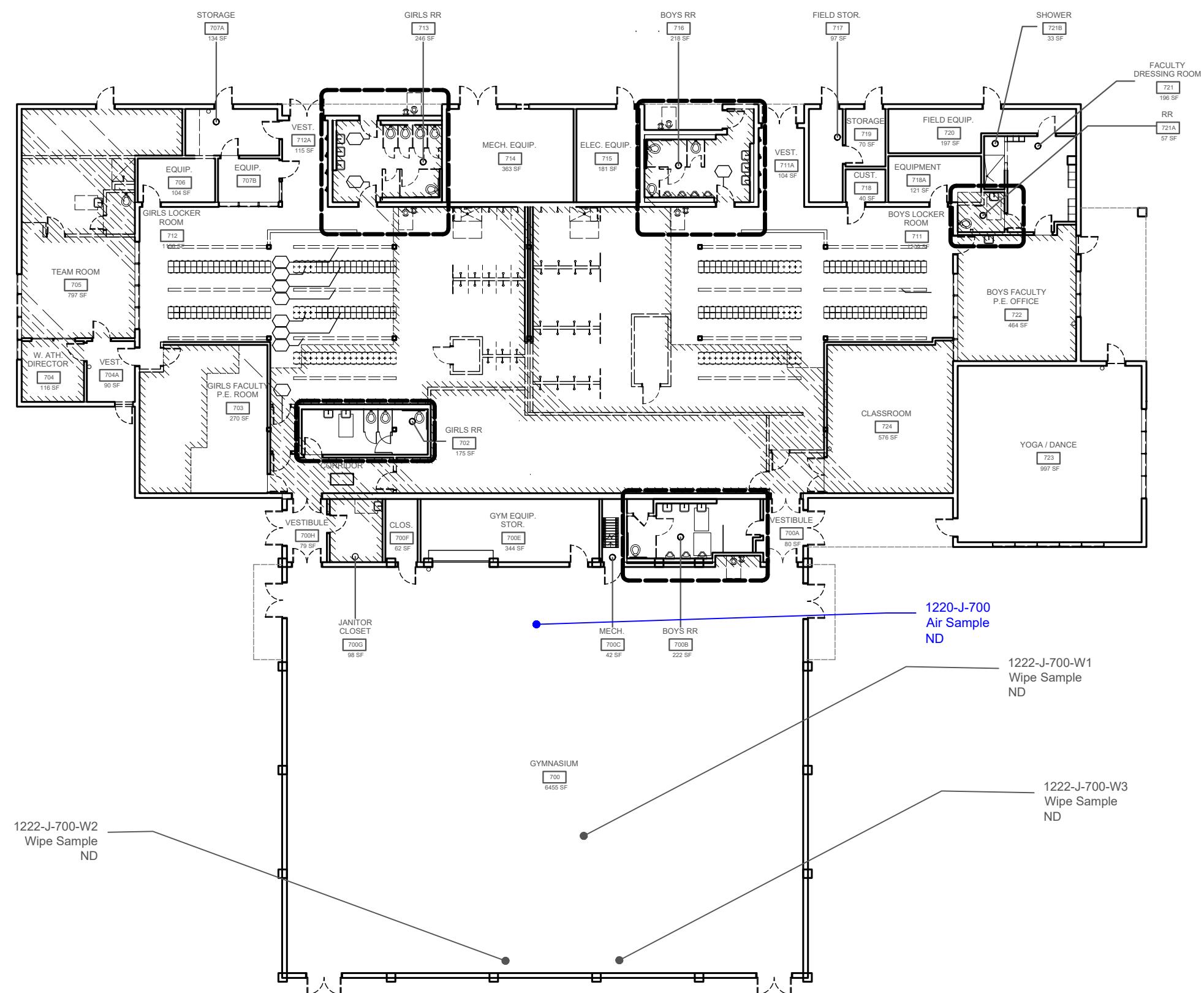
- Air Sample
- Wipe Sample

Sample Location Map - Building F - Quarterly Sampling

Malibu High School
30215 Morning View Drive
Malibu, California



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NV5 COMPANY
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Legend

- Air Sample
- Wipe Sample

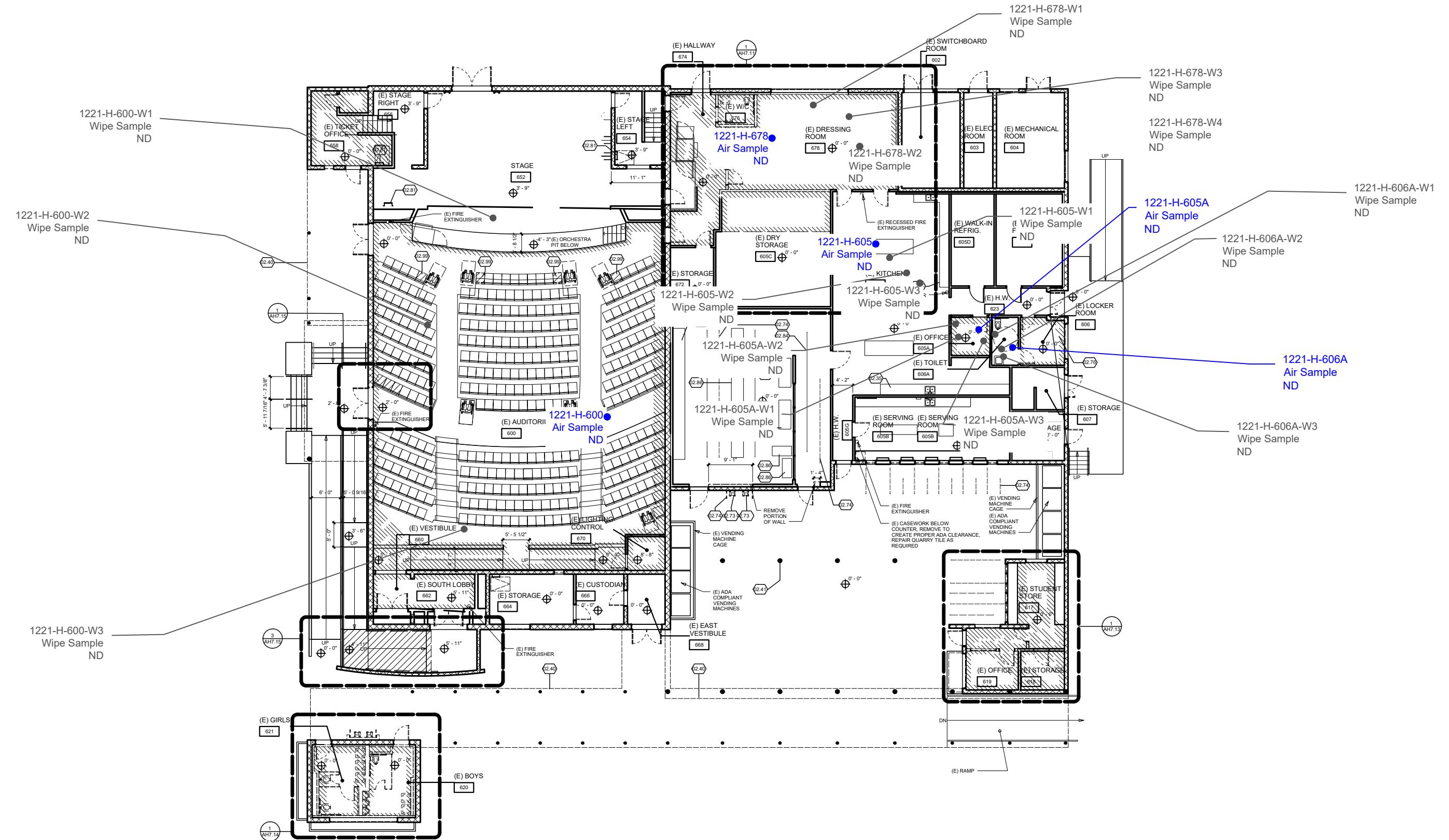
Sample Location Map - Building J - Quarterly Sampling

Malibu High School
30215 Morning View Drive
Malibu, California



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NV5 COMPANY
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P: (562) 495-5777 F: (562) 495-5877 www.altaenviron.com

DATE: January 2020 | Project No.: SMSD-18-8201



Legend

- Air Sample
- Wipe Sample

Sample Location Map - Building H - Quarterly Sampling

Malibu High School
30215 Morning View Drive
Malibu, California



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AN NV5 COMPANY

3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
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DATE: January 2020 Project No.: SMSD-18-8201

Appendix B

Sample Inventories

Summary of Malibu High School Surface Wipe Sampling Results

CLIENT: SMMUSD
PROJECT NO: SMSD-18-8201
PROJECT: Malibu High School Quarterly Sampling - 4Q2019
Date: January 17, 2020

Building	Floor Plan ID	Component Description	Sampling Date	Sample ID	Total PCBs ($\mu\text{g}/100\text{cm}^2$)
D	101A	Blue rolled on flooring	12/22/2019	1222-D-101A-W1	ND
		Wooden desk	12/22/2019	1222-D-101A-W2	ND
		Metal desk	12/22/2019	1222-D-101A-W3	ND
	101B	Blue rolled on flooring	12/22/2019	1222-D-101B-W1	ND
		Wooden desk	12/22/2019	1222-D-101B-W2	ND
		Metal file cabinet	12/22/2019	1222-D-101B-W3	ND
	102	12" gray floor tile	12/22/2019	1222-D-102-W1	0.062J
		Wooden desk	12/22/2019	1222-D-102-W2	ND
		Black countertop	12/22/2019	1222-D-102-W3	ND
	105	12" gray floor tile	12/22/2019	1222-D-105-W1	ND
		Black wooden desk	12/22/2019	1222-D-105-W2	ND
		White laminate desk	12/22/2019	1222-D-105-W3	ND
	120	Wooden table	12/22/2019	1222-D-120-W1	0.238
		Blue rolled on flooring	12/22/2019	1222-D-120-W2	ND
		Plastic gray table	12/22/2019	1222-D-120-W3	ND
	201	Wooden desk	12/22/2019	1222-D-201-W1	ND
		Wooden bookshelf	12/22/2019	1222-D-201-W2	ND
		12" blue floor tile	12/22/2019	1222-D-201-W3	ND
		12" blue floor tile (Duplicate)	12/22/2019	1222-D-201-W4	ND
	203	12" blue floor tile	12/22/2019	1222-D-203-W1	ND
		Wooden desk	12/22/2019	1222-D-203-W2	ND
		Metal fire cabinet	12/22/2019	1222-D-203-W3	ND
	204	12" blue floor tile	12/22/2019	1222-D-204-W1	0.052J
		Wooden desk	12/22/2019	1222-D-204-W2	ND
		Wooden cabinet shelf	12/22/2019	1222-D-204-W3	ND
	207	12" blue floor tile	12/22/2019	1222-D-207-W1	ND
		Wooden desk	12/22/2019	1222-D-207-W2	ND
		Wooden bookshelf	12/22/2019	1222-D-207-W3	ND
	212	12" blue floor tile	12/22/2019	1222-D-212-W1	ND
		Wooden desk	12/22/2019	1222-D-212-W2	ND
		Wooden chair	12/22/2019	1222-D-212-W3	ND
	213	Black metal bookshelf	12/27/2019	1227-D-213-W1	ND
		White laminate countertop	12/27/2019	1227-D-213-W2	ND
		12" light blue floor tile	12/27/2019	1227-D-213-W3	ND
		12" light blue floor tile (Duplicate)	12/27/2019	1227-D-213-W4	ND
F	303	12" gray floor tile	12/21/2019	1221-F-303-W1	0.099J
		Wooden bench	12/21/2019	1221-F-303-W2	0.059J
		Wooden bookshelf	12/21/2019	1221-F-303-W3	ND
G	504	White laminate countertop	12/21/2019	1221-G-504-W1	ND
		Brown wooden bookshelf	12/21/2019	1221-G-504-W2	0.187
		Metal sink counter	12/21/2019	1221-G-504-W3	ND
	505	Wooden desk	12/21/2019	1221-G-505-W1	ND
		White laminate countertop	12/21/2019	1221-G-505-W2	ND
		Metal file cabinet	12/21/2019	1221-G-505-W3	0.075J

Summary of Malibu High School Surface Wipe Sampling Results

Building	Floor Plan ID	Component Description	Sampling Date	Sample ID	Total PCBs ($\mu\text{g}/100\text{cm}^2$)
H	606A	1" gray floor tile	12/21/2019	1221-H-606A-W1	ND
		Wooden shelf	12/21/2019	1221-H-606A-W2	ND
		Plastic towel dispenser	12/21/2019	1221-H-606A-W3	ND
	605A	Wooden desk	12/21/2019	1221-H-605A-W1	ND
		9" gray floor tile	12/21/2019	1221-H-605A-W2	ND
		Wooden bookshelf	12/21/2019	1221-H-605A-W3	ND
	605	Metal countertop	12/21/2019	1221-H-605-W1	ND
		Brown floor tile	12/21/2019	1221-H-605-W2	ND
		Metal sink countertop	12/21/2019	1221-H-605-W3	ND
	678	White laminate countertop	12/21/2019	1221-H-678-W1	ND
		Wood countertop	12/21/2019	1221-H-678-W2	ND
		12" gray floor tile	12/21/2019	1221-H-678-W3	ND
		12" gray floor tile (Duplicate)	12/21/2019	1221-H-678-W4	ND
	600	Black wood stage	12/21/2019	1221-H-600-W1	ND
		Concrete floor	12/21/2019	1221-H-600-W2	ND
		Wood handrail	12/21/2019	1221-H-600-W3	ND
J	700	Wood flooring	12/22/2019	1222-J-700-W1	ND
		Wood flooring on bleachers	12/22/2019	1222-J-700-W2	ND
		Plastic gray chair	12/22/2019	1222-J-700-W3	ND
Field Blank		Field Blank	12/27/2019	1227-Q1	ND
Field Blank		Field Blank	12/22/2019	1221-Q1	ND
Field Blank		Field Blank	12/22/2019	1222-Q1	ND

Notes:

$\mu\text{g}/100\text{cm}^2$ = 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

Summary of Malibu High School Air Sampling Results

CLIENT: SMMUSD
PROJECT NO: SMSD-18-8201
PROJECT: Malibu High School Quarterly Sampling - 4Q2019
Date: January 17, 2020

Building	Room Placard ID	Room Description	Sampling Date ^[a]	Sample ID	Total PCBs (ng/m ³)
D	201	Classroom	12/20/2019	1220-D-201	ND
	203	Classroom	12/20/2019	1220-D-203	ND
	204	Classroom	12/20/2019	1220-D-204	ND
	207	Classroom	12/20/2019	1220-D-207	ND
	212	Classroom	12/20/2019	1220-D-212	ND
	101A	Classroom	12/20/2019	1220-D-101A	15.1
	101B	Classroom	12/20/2019	1220-D-101B	ND
	102	Science lab	12/20/2019	1220-D-102	ND
	105	Science lab	12/20/2019	1220-D-105	ND
	120	Teacher's lounge	12/20/2019	1220-D-120	ND
J	700	Gym	12/20/2019	1220-J-700	ND
F	303	Orchestra	12/21/2019	1221-F-303	ND
G	504	Ceramic workroom	12/21/2019	1221-G-504	ND
G	505	Ceramics lab	12/21/2019	1221-G-505	ND
H	600	Auditorium	12/21/2019	1221-H-600	ND
H	678	Dressing room	12/21/2019	1221-H-678	ND
H	606A	Restroom	12/21/2019	1221-H-606A	ND
H	605A	Office	12/21/2019	1221-H-605A	ND
H	605	Kitchen	12/21/2019	1221-H-605	ND
D	213	IT room	12/26/2019	1226-D-213	ND
Ambient	N/A	N/A	12/26/2019	1226-A1	ND
Ambient	N/A	N/A	12/20/2019	1220-A	ND
Ambient	N/A	N/A	12/21/2019	1221-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

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

Alta Environmental
3777 Long Beach Boulevard Annex
Building

Long Beach, CA 90807-

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

Number of Pages 6

Date Received 12/31/2019

Date Reported 01/10/2020

Job Number	Order Date	Client
102993	12/31/2019	ALTA

Project ID: SMSD-18-8201
Project Name: Malibu HS PCB Qtrly Sampling
Site: Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

Enclosed please find results of analyses of 5 solid and 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



American Environmental Testing Laboratory Inc.

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

CHAIN OF CUSTODY RECORD

COMPANY	AETL Environmental		PHONE 562-495-5777	FAX	Page <u>1</u> of <u>1</u>
PROJECT MANAGER	Jonathan Burkman				
PROJECT NAME	MHS PCB Quarterly Sampling		PROJECT # S.MSP - 18-8201		
SITE NAME AND ADDRESS	Mallin High School				
ANALYSIS REQUESTED					
TEST INSTRUCTIONS & COMMENTS					
Soil off 3rd terrace, 2808 663					
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE
1226-D-213	102993-01	12/26/93	0931	AIR	1 ICE X X
1226-A-1	02993-02	12/26/93	0938	AIR	1 ICE X X
1226-0-23-w1	102993-03	12/26/93	0951	W/PE	1 ICE X X
1226-D-235-w2	102993-04	12/26/93	0953	W/PE	1 ICE X X
1226-D-23-w3	102993-05	12/26/93	0957	W/PE	1 ICE X X
1226-D-23-w4	102993-06	12/26/93	0958	W/PE	1 ICE X X
1227-Q-1	102993-07	12/27/93	1002	W/PE	1 ICE X X
RELINQUISHED BY:					
SAMPLER:	1.	RELINQUISHED BY:	2.	RELINQUISHED BY:	3.
<i>George Rosales</i>		<i>George Rosales</i>		<i>George Rosales</i>	
Printed Name:		Printed Name:		Printed Name:	
Date: 12/27/93	Time: 1:300	Date: 12/27/93	Time: 1:300	Date: 12/27/93	Time: 1:300
SAMPLE RECEIPT - TO BE FILLED BY LABORATORY					
TOTAL NUMBER OF CONTAINERS	7	PROPERLY COOLED Y/N	N	SAMPLES INTACT Y/N	N
CUSTODY SEALS Y/N	N	SAMPLES ACCEPTED Y/N	N	RECEIVED IN GOOD COND. Y/N	Y
TURN AROUND TIME					
NORMAL		RUSH	<input type="checkbox"/> SAME DAY	<input type="checkbox"/> 48 HRS.	<input type="checkbox"/> 72 HRS.
			<input type="checkbox"/> 24 HRS.		
DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator					



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

A KYZER LABS COMPANY

COOLER RECEIPT FORM

Client Name: *ACTa*

Project Name:

AETL Job Number: *102993*

Date Received: *12/31/19*

Received by: *Antin*

Carrier: AETL Courier Client GSO FedEx UPS
 Others:

Samples were received in: Cooler () Other (Specify):

Inside temperature of shipping container No 1: _____, No 2: _____, No 3: _____

Type of sample containers: VOA, Glass bottles, Wide mouth jars, HDPE bottles,
 Metal sleeves, Others (Specify): *2xair*

How are samples preserved: None, Ice, Blue Ice, Dry Ice

None, HNO₃, NaOH, ZnOAc, HCl, Na₂S₂O₃,
 MeOH

Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<i>X</i>		
2. Are the Sample labels legible?	<i>X</i>		
3. Do samples match the COC?	<i>X</i>		
4. Are the required analyses clear?	<i>X</i>		
5. Is there enough samples for required analysis?	<i>Y</i>		
6. Are samples sealed with evidence tape?	<i>N/A</i>		
7. Are sample containers in good condition?	<i>X</i>		
8. Are samples preserved?	<i>N/A</i>		
9. Are samples preserved properly for the intended analysis?	<i>X</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:



American Environmental Testing Laboratory Inc.

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Page: 1 A

Ordered By

Alta Environmental
3777 Long Beach Boulevard Annex
Building
Long Beach, CA 90807-

Telephone: (562) 495-5777

Attention: Jonathan Barkman

Project ID: SMSD-18-8201
Date Received 12/31/2019
Date Reported 01/10/2020

Job Number	Order Date	Client
102993	12/31/2019	ALTA

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 7 samples with the following specification on 12/31/2019.

Lab ID	Sample ID	Sample Date		Matrix	Quantity Of Containers
102993.01	1226-D-213	12/26/2019		Gaseous	1
102993.02	1226-A1	12/26/2019		Gaseous	1
Method	Submethod	Req Date	Priority	TAT	Units
TO-10A ^ PCB-NG/M3		01/07/2020	2	Normal	ng/m3
Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	
102993.03	1226-D-213-W1	12/26/2019	Solid	1	
102993.04	1226-D-213-W2	12/26/2019	Solid	1	
102993.05	1226-D-213-W3	12/26/2019	Solid	1	
102993.06	1226-D-213-W4	12/26/2019	Solid	1	
102993.07	1227-Q1	12/27/2019	Solid	1	
Method	Submethod	Req Date	Priority	TAT	Units
(8082) ^ WIPE-2		01/07/2020	2	Normal	ug/100cm ²

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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ANALYTICAL RESULTS

Ordered By

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3777 Long Beach Boulevard
Annex Building
Long Beach, CA 90807-

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 2

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102993	12/31/2019	ALTA

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

QC Batch No: 123119ZB1

Our Lab I.D.			Method Blank	102993.01	102993.02		
Client Sample I.D.				1226-D-213	1226-A1		
Date Sampled				12/26/2019	12/26/2019		
Date Prepared			12/31/2019	12/31/2019	12/31/2019		
Preparation Method			3540C	3540C	3540C		
Date Analyzed			01/03/2020	01/03/2020	01/03/2020		
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	14	ND	ND	ND		
Aroclor-1221 (PCB-1221)	28	28	ND	ND	ND		
Aroclor-1232 (PCB-1232)	14	14	ND	ND	ND		
Aroclor-1242 (PCB-1242)	14	14	ND	ND	ND		
Aroclor-1248 (PCB-1248)	14	14	ND	ND	ND		
Aroclor-1254 (PCB-1254)	14	14	ND	ND	ND		
Aroclor-1260 (PCB-1260)	14	14	ND	ND	ND		
Aroclor-1262 (PCB-1262)	14	14	ND	ND	ND		
Aroclor-1268 (PCB-1268)	14	14	ND	ND	ND		
Our Lab I.D.			Method Blank	102993.01	102993.02		
Surrogates	% Rec. Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		49.4	54.8	55.8		
Tetrachloro-m-xylene	30-150		69.2	52.8	67.0		



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ANALYTICAL RESULTS

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Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 3

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102993	12/31/2019	ALTA

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

QC Batch No: 010220ZB1

Our Lab I.D.			Method Blank	102993.03	102993.04	102993.05	102993.06
Client Sample I.D.				1226-D-213-W1	1226-D-213-W2	1226-D-213-W3	1226-D-213-W4
Date Sampled				12/26/2019	12/26/2019	12/26/2019	12/26/2019
Date Prepared			01/02/2020	01/02/2020	01/02/2020	01/02/2020	01/02/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
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	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	102993.03	102993.04	102993.05	102993.06
Surrogates	% Rec. Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		88.6	69.4	87.6	63.6	72.2
Tetrachloro-m-xylene	30-150		77.4	50.0	69.0	43.6	63.8



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ANALYTICAL RESULTS

Ordered By

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Annex Building
Long Beach, CA 90807-

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 4

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102993	12/31/2019	ALTA

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

QC Batch No: 010220ZB1

Our Lab I.D.			102993.07				
Client Sample I.D.			1227-Q1				
Date Sampled			12/27/2019				
Date Prepared			01/02/2020				
Preparation Method			3540C				
Date Analyzed			01/03/2020				
Matrix			Solid				
Units			ug/100cm ²				
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	ND				
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.			102993.07				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		69.8				
Tetrachloro-m-xylene	30-150		48.8				



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QUALITY CONTROL RESULTS

Ordered By

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3777 Long Beach Boulevard
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Long Beach, CA 90807-

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 5

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102993	12/31/2019	ALTA

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

QC Batch No: 123119ZB1; LCS: Blank; LCS Prepared: 12/31/2019; LCS Analyzed: 01/03/2020; Units: ng/m3

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	498	99.6	500	545	109	9.0	40-140	<40	
Aroclor-1260 (PCB-1260)	500	683	137	500	660	132	3.7	40-140	<40	
Surrogates										
Decachlorobiphenyl	50.0	65.9	132	50.0	65.5	131	<1	30-150	<30	
Tetrachloro-m-xylene	50.0	69.9	140	50.0	62.5	125	11.3	30-150	<30	



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QUALITY CONTROL RESULTS

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Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 6

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102993	12/31/2019	ALTA

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

QC Batch No: 010220ZB1; LCS: Blank; LCS Prepared: 01/02/2020; LCS Analyzed: 01/03/2020; 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)	0.500	0.260	51.6	0.500	0.270	54.8	6.0	50-150	<20	
Aroclor-1260 (PCB-1260)	0.500	0.330	66.4	0.500	0.290	57.4	14.5	50-150	<20	
Surrogates										
Decachlorobiphenyl	0.0500	0.0304	60.8	0.0500	0.0277	55.4	9.3	30-150	<20	
Tetrachloro-m-xylene	0.0500	0.0221	44.2	0.0500	0.0197	39.4	11.5	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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Ordered By

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3777 Long Beach Boulevard Annex
Building

Long Beach, CA 90807-

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

Number of Pages 19

Date Received 12/23/2019

Date Reported 12/31/2019

Job Number	Order Date	Client
102949	12/23/2019	ALTA

Project ID: SMSD-18-8201
Project Name: Malibu HS PCB Qtrly Sampling
Site: Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

Enclosed please find results of analyses of 52 wipe 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



American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

NO 96770

102999

Page 3 of 6

COMPANY AETL Environmental PROJECT MANAGER J. Beckman

PHONE

COMPANY ADDRESS 3247 Hwy Beach Blvd, Annex Bldg C/A PROJECT # 201 SD-18-8201
PROJECT NAME Malibu HS PCB Quarterly PO #

SITE NAME AND ADDRESS Malibu High School

30215 Malibu View Dr, Malibu, CA

SAMPLE ID		LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
1	1221H-605A-w1	102999.01	12/21/18	17:50	wire	1	ice	X X X	10cm ²
2	1221-H-605A-w2	102999.02	12/21/18	17:54	wire	1	ice	X X X	10cm ²
3	1221-H-605A-w3	102999.03	12/21/18	17:57	wire	1	ice	X X X	10cm ²
4	1221-H-605A-w4	102999.04	12/21/18	18:03	wire	1	ice	X X X	10cm ²
5	1221-H-605A-w5	102999.05	12/21/18	18:06	wire	1	ice	X X X	10cm ²
6	1221-H-605A-w6	102999.06	12/21/18	18:09	wire	1	ice	X X X	10cm ²
7	1221-H-605A-w7	102999.07	12/21/18	18:15	wire	1	ice	X X X	10cm ²
8	1221-H-605A-w8	102999.08	12/21/18	18:17	wire	1	ice	X X X	10cm ²
9	1221-H-605A-w9	102999.09	12/21/18	18:20	wire	1	ice	X X X	10cm ²
10	1221-H-605A-w10	102999.10	12/21/18	18:25	wire	1	ice	X X X	10cm ²
11	1221-H-605A-w11	102999.11	12/21/18	18:27	wire	1	ice	X X X	10cm ²
12	1221-H-605A-w12	102999.12	12/21/18	18:30	wire	1	ice	X X X	10cm ²
13	1221-H-605A-w13	102999.13	12/21/18	18:31	wire	1	ice	X X X	10cm ² Duplicate
14	1221-H-605A-w14	102999.14	12/21/18	18:36	wire	1	ice	X X X	10cm ²
15	1221-H-605A-w15	102999.15	12/21/18	18:39	wire	1	ice	X X X	10cm ²
RELINQUISHED BY: 1. <u>John Gao</u> Signature: <u>John Gao</u> Printed Name: <u>John Gao</u> Date: <u>12/23/19</u> Time: <u>18:25</u>								RELINQUISHED BY: 2. <u>RECEIVED BY: 2. J. Labation</u> Signature: <u>RECEIVED BY: 2. J. Labation</u> Printed Name: <u>RECEIVED BY: 2. J. Labation</u> Date: <u>12/23/19</u> Time: <u>18:25</u>	
SAMPLE RECEIPT - TO BE FILLED BY LABORATORY								RELINQUISHED BY: 3. <u>John Gao</u> Signature: <u>John Gao</u> Printed Name: <u>John Gao</u> Date: <u>12/23/19</u> Time: <u>18:25</u>	
TOTAL NUMBER OF CONTAINERS		15	PROPERLY COOLED Y N		NA				
CUSTODY SEALS Y/N NA			SAMPLES INTACT Y/N NA						
RECEIVED IN GOOD COND Y N			SAMPLES ACCEPTED Y N						
TURN AROUND TIME DATA DELIVERABLE REQUIRED									
NORMAL <input type="checkbox"/> RUSH <input type="checkbox"/>		SAME DAY <input type="checkbox"/> HARD COPY <input type="checkbox"/>		NEXT DAY <input type="checkbox"/> PDF <input type="checkbox"/>		2 DAYS <input type="checkbox"/> GEOTRACKER (GLOBAL ID) _____		3 DAYS <input type="checkbox"/> OTHER (PLEASE SPECIFY) _____	
DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator								Date: <u>12/23/19</u> Time: <u>18:25</u>	



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CHAIN OF CUSTODY RECORD

No 96771 Date 10/29/99

COMPANY Altair Environmental

PROJECT MANAGER

J. T. Johnson

PHONE

788-8888

FAX

788-8888

PROJECT

SMSD-18-8201

PO

2888

COMPANY ADDRESS
3447 Log Beach Blvd, Amer Blg, Long Beach, CA

PROJECT NAME

Mits PCB Quattro Sampling

SITE NAME AND ADDRESS

30215 Morning View Dr, Nalibea CA

ANALYSIS REQUESTED								TEST INSTRUCTIONS & COMMENTS	
<u>2888</u>									
ATEL JOB No.									
<u>102949</u>									
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER	NUMBER	SIZE	PRES.	
1	1021-H-600-w3	102949-16	12/21/99	18:41	wipe	1	10cm ²	X	
2	1022-D-101A-w1	102949-17	12/22/99	18:01	wipe	1	10cm ²	X	
3	1022-D-101A-w2	102949-18	12/22/99	18:04	wipe	1	10cm ²	X	
4	1022-D-101A-w3	102949-19	12/22/99	18:08	wipe	1	10cm ²	X	
5	1022-D-101B-w1	102949-20	12/22/99	18:12	wipe	1	10cm ²	X	
6	1022-D-101B-w2	102949-21	12/22/99	18:16	wipe	1	10cm ²	X	
7	1022-D-101B-w3	102949-22	12/22/99	18:17	wipe	1	10cm ²	X	
8	1022-D-102-w1	102949-23	12/22/99	18:30	wipe	1	10cm ²	X	
9	1022-D-102-w2	102949-24	12/22/99	18:34	wipe	1	10cm ²	X	
10	1022-D-102-w3	102949-25	12/22/99	18:37	wipe	1	10cm ²	X	
11	1022-D-105-w1	102949-26	12/22/99	18:42	wipe	1	10cm ²	X	
12	1022-D-105-w2	102949-27	12/22/99	18:45	wipe	1	10cm ²	X	
13	1022-D-105-w3	102949-28	12/22/99	18:48	wipe	1	10cm ²	X	
14	1022-D-102-w1	102949-29	12/22/99	18:55	wipe	1	10cm ²	X	
15	1022-D-102-w2	102949-30	12/22/99	18:59	wipe	1	10cm ²	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

1. RELINQUISHED BY:

2. RELINQUISHED BY:

3. RELINQUISHED BY:

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED Y / N	Y	Signature: <u>J. T. Johnson</u>	Printed Name: <u>J. T. Johnson</u>	Date: <u>10/23/99</u>	Time: <u>1501</u>
CUSTODY SEALS Y / N	NA	SAMPLES INTACT Y / N	Y	Signature: <u>John Goss</u>	Printed Name: <u>John Goss</u>	Date: <u>10/23/99</u>	Time: <u>1501</u>
RECEIVED IN GOOD COND. Y / N	N	SAMPLES ACCEPTED Y / N	Y	Signature: <u>John Goss</u>	Printed Name: <u>John Goss</u>	Date: <u>10/23/99</u>	Time: <u>1501</u>
TURN AROUND TIME		DATA DELIVERABLE REQUIRED		Signature: <u>John Goss</u>	Printed Name: <u>John Goss</u>	Date: <u>10/23/99</u>	Time: <u>1501</u>
<input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> RUSH	<input type="checkbox"/> SAME DAY <input type="checkbox"/> NEXT DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS	<input type="checkbox"/> HARD COPY <input type="checkbox"/> PDF <input type="checkbox"/> GEOTRACKER (GLOBAL ID) <input type="checkbox"/> OTHER (PLEASE SPECIFY)		Signature: <u>John Goss</u>	Printed Name: <u>John Goss</u>	Date: <u>10/23/99</u>	Time: <u>1501</u>

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

AMERICAN ENVIRONMENTAL TESTING LABORATORY

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

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CHAIN OF CUSTODY RECORD

116022

102949

Page 56 of 56
TEST INSTRUCTIONS & COMMENTS
ANALYSIS REQUESTED

COMPANY AETL Environmental PROJECT MANAGER J. R. Miller
COMPANY ADDRESS 3777 Long Beach Blvd., Annex Bldg C.A. PHONE Long Beach
PROJECT NAME MHS PCR Quarterly Sampling PROJECT # MSD-PS-8201
SITE NAME 30215 Atlantic Morning View Dr. PO # 102949
AND ADDRESS Malibu CA

SAMPLE ID **LAB ID** **DATE** **TIME** **MATRIX** **CONTAINER NUMBER/SIZE** **PRES.**

1	12222-D-102-w3	12/22/19	1837	Wipe	1	TCF
2	12222-D-105-w1		1842			
3	12222-D-105-w2		1843	1845		
4	12222-D-105-w3		1848	Wipe		
5	12222-D-130-w1		1855			
6	12222-D-120-w2		1859			
7	12222-D-120-w3		1902			
8	12222-D-201-w1		1912			
9	12222-D-201-w2		1918			
10	12222-D-201-w3		1920			
11	12222-D-201-w4		1921			
12	12222-D-203-w1		1928			
13	12222-D-203-w2		1931			
14	12222-D-203-w3		1933			
15	12222-D-203-w4		1940			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS 15 PROPERLY COOLED Y/N NA
CUSTODY SEALS Y/N NA SAMPLES INTACT Y/N NA
RECEIVED IN GOOD COND. Y/N SAMPLES ACCEPTED Y/N

TURN AROUND TIME

DATA DELIVERABLE REQUIRED

NORMAL RUSH SAME DAY
 NEXT DAY HARD COPY
 2 DAYS PDF
 3 DAYS GEOTRACKER (GLOBAL ID)
 OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY:

1.

RELINQUISHED BY:

2.

RELINQUISHED BY:

3.

Signature: John H. Miller Printed Name: J. R. Miller Date: 12/23/19 Time: 15:04
 Signature: James Garcia Printed Name: James Garcia Date: 12/23/19 Time: 15:04
 Signature: Art Printed Name: Art Date: 12/23/19 Time: 15:04

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

AMERICAN ENVIRONMENTAL TESTING LABORATORY
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CHAIN OF CUSTODY RECORD

116023

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COMPANY <u>All Environment</u>		PROJECT MANAGER <u>A. Barkman</u>		AETL JOB No. <u>102949</u>		TEST INSTRUCTIONS & COMMENTS	
COMPANY ADDRESS <u>3777 W Beach Blvd, Annex</u>		PHONE <u>(310) 265-8053</u>		ANALYSIS REQUESTED			
PROJECT NAME <u>MHS</u>	PROJECT # <u>Quarterly PEM Sampling</u>	PO # <u>3MSD-18-8201</u>					
SITE NAME AND ADDRESS <u>Willow High School</u>							
30215 Sherman View Dr, Malibu CA							
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	TYPE	CONTAINER NUMBER/SIZE	PRES.
1	1222-D-704-W22	12/22/2019	1943	1	TCE	X	X
2	1222-D-704-W23		1947			X	X
3	1222-D-707-W1		1956			X	X
4	1222-D-707-W2		1959			X	X
5	1222-D-707-W3		2002			X	X
6	1222-D-212-W1		2010			X	X
7	1222-D-212-W2		2013			X	X
8	1222-D-212-W3		2015			X	X
9	1222-T-700-W1		2105			X	X
10	1222-T-700-W2		2108			X	X
11	1222-T-700-W3		2111			X	X
12	1221-Q1	12/21/19	220			X	X
13	1222-Q1	12/22/19	215			X	X
14							
15							
SAMPLE RECEIPT - TO BE FILLED BY LABORATORY							
TOTAL NUMBER OF CONTAINERS <u>13</u>		PROPERLY COOLED <u>Y</u> N <u>NA</u>		SAMPLES INTACT <u>Y</u> N <u>NA</u>		RECEIVED IN GOOD COND. <u>Y</u> N	
CUSTODY SEALS <u>Y</u> N <u>NA</u>		SAMPLES ACCEPTED <u>Y</u> N		RECEIVED ON: <u>12/23/19</u>		DATA DELIVERABLE REQUIRED	
TURN AROUND TIME							
NORMAL <input type="checkbox"/> RUSH <input type="checkbox"/>		HARD COPY <input type="checkbox"/> PDF <input type="checkbox"/>		GEOTRACKER (GLOBAL ID) _____ OTHER (PLEASE SPECIFY) _____		RECEIVED BY: <u>RECEIVED BY: 1.</u>	
SAME DAY <input type="checkbox"/> NEXT DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS <input type="checkbox"/>						RELINQUISHED BY: <u>RELINQUISHED BY: 2.</u>	
						RELINQUISHED BY: <u>RELINQUISHED BY: 3.</u>	
DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sample/Originator							
Signature: <u>John A. Barkman</u> Printed Name: <u>John A. Barkman</u> Date: <u>12/23/19</u> Time: <u>14:35</u>							
Signature: <u>John A. Barkman</u> Printed Name: <u>John A. Barkman</u> Date: <u>12/23/19</u> Time: <u>14:35</u>							
Signature: <u>John A. Barkman</u> Printed Name: <u>John A. Barkman</u> Date: <u>12/23/19</u> Time: <u>14:35</u>							



A KYZER LABS COMPANY

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COOLER RECEIPT FORM

Client Name: *Acta*

Project Name:

AETL Job Number: *102948 / 102949*

Date Received: *1/23/19* Received by: *Act*

Carrier: AETL Courier Client GSO FedEx UPS

Others:

Samples were received in: Cooler () Other (Specify):

Inside temperature of shipping container No 1: _____, No 2: _____, No 3: _____

Type of sample containers: VOA, Glass bottles, Wide mouth jars, HDPE bottles,
 Metal sleeves, Others (Specify):

How are samples preserved: None, Ice, Blue Ice, Dry Ice

None, HNO₃, NaOH, ZnOAc, HCl, Na₂S₂O₃,
 MeOH

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?	✗		
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?	✗	1A	
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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Alta Environmental
3777 Long Beach Boulevard Annex
Building
Long Beach, CA 90807-

Telephone: (562) 495-5777

Attention: Jonathan Barkman

Project ID: SMSD-18-8201

Date Received 12/23/2019

Date Reported 12/31/2019

Job Number	Order Date	Client
102949	12/23/2019	ALTA

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 52 samples with the following specification on 12/23/2019.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
102949.01	1221-H-606A-W1	12/21/2019	Solid	1
102949.02	1221-H-606A-W2	12/21/2019	Solid	1
102949.03	1221-H-606A-W3	12/21/2019	Solid	1
102949.04	1221-H-605A-W1	12/21/2019	Solid	1
102949.05	1221-H-605A-W2	12/21/2019	Solid	1
102949.06	1221-H-605A-W3	12/21/2019	Solid	1
102949.07	1221-H-605-W1	12/21/2019	Solid	1
102949.08	1221-H-605-W2	12/21/2019	Solid	1
102949.09	1221-H-605-W3	12/21/2019	Solid	1
102949.10	1221-H-678-W1	12/21/2019	Solid	1
102949.11	1221-H-678-W2	12/21/2019	Solid	1
102949.12	1221-H-678-W3	12/21/2019	Solid	1
102949.13	1221-H-678-W4	12/21/2019	Solid	1
102949.14	1221-H-600-W1	12/21/2019	Solid	1
102949.15	1221-H-600-W2	12/21/2019	Solid	1
102949.16	1221-H-600-W3	12/21/2019	Solid	1
102949.17	1222-D-101A-W1	12/22/2019	Solid	1
102949.18	1222-D-101A-W2	12/22/2019	Solid	1
102949.19	1222-D-101A-W3	12/22/2019	Solid	1
102949.20	1222-D-101B-W1	12/22/2019	Solid	1
102949.21	1222-D-101B-W2	12/22/2019	Solid	1
102949.22	1222-D-101B-W3	12/22/2019	Solid	1
102949.23	1222-D-102-W1	12/22/2019	Solid	1
102949.24	1222-D-102-W2	12/22/2019	Solid	1

Continued



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3777 Long Beach Boulevard Annex
Building
Long Beach, CA 90807-

Telephone: (562) 495-5777

Attention: Jonathan Barkman

Project ID: SMSD-18-8201

Date Received 12/23/2019

Date Reported 12/31/2019

Job Number	Order Date	Client
102949	12/23/2019	ALTA

CERTIFICATE OF ANALYSIS CASE NARRATIVE

102949.25	1222-D-102-W3	12/22/2019	Solid	1
102949.26	1222-D-105-W1	12/22/2019	Solid	1
102949.27	1222-D-105-W2	12/22/2019	Solid	1
102949.28	1222-D-105-W3	12/22/2019	Solid	1
102949.29	1222-D-120-W1	12/22/2019	Solid	1
102949.30	1222-D-120-W2	12/22/2019	Solid	1
102949.31	1222-D-102-W3	12/22/2019	Solid	1
102949.32	1222-D-201-W1	12/22/2019	Solid	1
102949.33	1222-D-201-W2	12/22/2019	Solid	1
102949.34	1222-D-201-W3	12/22/2019	Solid	1
102949.35	1222-D-201-W4	12/22/2019	Solid	1
102949.36	1222-D-203-W1	12/22/2019	Solid	1
102949.37	1222-D-203-W2	12/22/2019	Solid	1
102949.38	1222-D-203-W3	12/22/2019	Solid	1
102949.39	1222-D-204-W1	12/22/2019	Solid	1
102949.40	1222-D-204-W2	12/22/2019	Solid	1
102949.41	1222-D-204-W3	12/22/2019	Solid	1
102949.42	1222-D-207-W1	12/22/2019	Solid	1
102949.43	1222-D-207-W2	12/22/2019	Solid	1
102949.44	1222-D-207-W3	12/22/2019	Solid	1
102949.45	1222-D-212-W1	12/22/2019	Solid	1
102949.46	1222-D-212-W2	12/22/2019	Solid	1
102949.47	1222-D-212-W3	12/22/2019	Solid	1
102949.48	1222-J-700-W1	12/22/2019	Solid	1
102949.49	1222-J-700-W2	12/22/2019	Solid	1
102949.50	1222-J-700-W3	12/22/2019	Solid	1
102949.51	1221-Q1	12/21/2019	Solid	1
102949.52	1222-Q1	12/22/2019	Solid	1

Method ^ Submethod	Req Date	Priority	TAT	Units
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Continued



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3777 Long Beach Boulevard Annex
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Long Beach, CA 90807-

Telephone: (562) 495-5777

Attention: Jonathan Barkman

Project ID: SMSD-18-8201

Date Received 12/23/2019

Date Reported 12/31/2019

Job Number	Order Date	Client
102949	12/23/2019	ALTA

CERTIFICATE OF ANALYSIS CASE NARRATIVE

102949.52	1222-Q1	12/22/2019	Solid	1
Method	Submethod	Req Date	Priority	TAT
(8082)	WIPE-2	12/30/2019	2	Normal
				ug/100cm ²

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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ANALYTICAL RESULTS

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Long Beach, CA 90807-

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 2

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122419ZB1

Our Lab I.D.			Method Blank	102949.01	102949.02	102949.03	102949.04
Client Sample I.D.			1221-H-606A -W1	1221-H-606A -W2	1221-H-606A -W3	1221-H-605A -W1	
Date Sampled			12/21/2019	12/21/2019	12/21/2019	12/21/2019	12/21/2019
Date Prepared		12/24/2019	12/24/2019	12/24/2019	12/24/2019	12/24/2019	12/24/2019
Preparation Method		3540C	3540C	3540C	3540C	3540C	3540C
Date Analyzed		12/27/2019	12/27/2019	12/27/2019	12/27/2019	12/27/2019	12/27/2019
Matrix		Solid	Solid	Solid	Solid	Solid	Solid
Units		ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2
Dilution Factor		1	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	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	102949.01	102949.02	102949.03	102949.04	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150	78.0	36.0	49.8	44.6	71.2	
Tetrachloro-m-xylene	30-150	68.6	32.6	44.2	39.6	46.8	



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ANALYTICAL RESULTS

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Attn: Jonathan Barkman

Page: 3

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122419ZB1

Our Lab I.D.		102949.05	102949.06	102949.07	102949.08	102949.09
Client Sample I.D.		1221-H-605A -W2	1221-H-605A -W3	1221-H-605- W1	1221-H-605- W2	1221-H-605- W3
Date Sampled		12/21/2019	12/21/2019	12/21/2019	12/21/2019	12/21/2019
Date Prepared		12/24/2019	12/24/2019	12/24/2019	12/24/2019	12/24/2019
Preparation Method		3540C	3540C	3540C	3540C	3540C
Date Analyzed		12/27/2019	12/28/2019	12/28/2019	12/28/2019	12/28/2019
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
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND
Our Lab I.D.		102949.05	102949.06	102949.07	102949.08	102949.09
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		65.0	68.6	46.2	42.2
Tetrachloro-m-xylene	30-150		47.4	46.4	50.0	37.0



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ANALYTICAL RESULTS

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3777 Long Beach Boulevard
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Long Beach, CA 90807-

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 4

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122419ZB1

Our Lab I.D.			102949.10				
Client Sample I.D.			1221-H-678-W1				
Date Sampled			12/21/2019				
Date Prepared			12/24/2019				
Preparation Method			3540C				
Date Analyzed			12/28/2019				
Matrix			Solid				
Units			ug/100cm ²				
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	ND				
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.			102949.10				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		58.6				
Tetrachloro-m-xylene	30-150		45.2				



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ANALYTICAL RESULTS

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3777 Long Beach Boulevard
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Long Beach, CA 90807-

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 5

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122619ZB1

Our Lab I.D.		Method Blank	102949.11	102949.12	102949.13	102949.14	
Client Sample I.D.			1221-H-678-W2	1221-H-678-W3	1221-H-678-W4	1221-H-600-W1	
Date Sampled			12/21/2019	12/21/2019	12/21/2019	12/21/2019	
Date Prepared			12/26/2019	12/26/2019	12/26/2019	12/26/2019	
Preparation Method			3540C	3540C	3540C	3540C	
Date Analyzed			12/28/2019	12/28/2019	12/28/2019	12/28/2019	
Matrix			Solid	Solid	Solid	Solid	
Units			ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND	
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND	
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND	
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND	
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND	
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	ND	ND	ND	
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND	
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND	
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND	
Our Lab I.D.			Method Blank	102949.11	102949.12	102949.13	102949.14
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150		74.0	76.6	57.0	117	61.0
Tetrachloro-m-xylene	30-150		82.2	62.6	64.0	39.8	59.8



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122619ZB1

Our Lab I.D.		102949.15	102949.16	102949.17	102949.18	102949.19
Client Sample I.D.		1221-H-600-W2	1221-H-600-W3	1222-D-101A-W1	1222-D-101A-W2	1222-D-101A-W3
Date Sampled		12/21/2019	12/21/2019	12/22/2019	12/22/2019	12/22/2019
Date Prepared		12/26/2019	12/26/2019	12/26/2019	12/26/2019	12/26/2019
Preparation Method		3540C	3540C	3540C	3540C	3540C
Date Analyzed		12/28/2019	12/28/2019	12/28/2019	12/28/2019	12/28/2019
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
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND
Our Lab I.D.		102949.15	102949.16	102949.17	102949.18	102949.19
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		65.6	79.0	90.0	78.6
Tetrachloro-m-xylene	30-150		42.8	61.6	48.6	46.8
						52.2



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122619ZB1

Our Lab I.D.		102949.20	102949.21	102949.22	102949.23	102949.24
Client Sample I.D.		1222-D-101B -W1	1222-D-101B -W2	1222-D-101B -W3	1222-D-102- W1	1222-D-102- W2
Date Sampled		12/22/2019	12/22/2019	12/22/2019	12/22/2019	12/22/2019
Date Prepared		12/26/2019	12/26/2019	12/26/2019	12/26/2019	12/26/2019
Preparation Method		3540C	3540C	3540C	3540C	3540C
Date Analyzed		12/28/2019	12/28/2019	12/28/2019	12/28/2019	12/28/2019
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
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	ND	ND	0.062J
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND
Our Lab I.D.		102949.20	102949.21	102949.22	102949.23	102949.24
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		51.0	53.4	57.0	103
Tetrachloro-m-xylene	30-150		39.4	47.8	59.0	64.0
						45.4



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122619ZB1

Our Lab I.D.		102949.25	102949.26	102949.27	102949.28	102949.29
Client Sample I.D.		1222-D-102-W3	1222-D-105-W1	1222-D-105-W2	1222-D-105-W3	1222-D-120-W1
Date Sampled		12/22/2019	12/22/2019	12/22/2019	12/22/2019	12/22/2019
Date Prepared		12/26/2019	12/26/2019	12/26/2019	12/26/2019	12/26/2019
Preparation Method		3540C	3540C	3540C	3540C	3540C
Date Analyzed		12/28/2019	12/28/2019	12/28/2019	12/28/2019	12/28/2019
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
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	ND	ND	0.238
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND
Our Lab I.D.		102949.25	102949.26	102949.27	102949.28	102949.29
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		53.8	99.6	55.4	67.2
Tetrachloro-m-xylene	30-150		52.2	41.6	62.4	50.8



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122619ZB1

Our Lab I.D.		102949.30				
Client Sample I.D.		1222-D-120-W2				
Date Sampled		12/22/2019				
Date Prepared		12/26/2019				
Preparation Method		3540C				
Date Analyzed		12/28/2019				
Matrix		Solid				
Units		ug/100cm ²				
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	ND			
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.		102949.30				
Surrogates	%Rec.Limit		% Rec.			
Decachlorobiphenyl	30-150		66.4			
Tetrachloro-m-xylene	30-150		56.0			



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122719ZB1

Our Lab I.D.			Method Blank	102949.31	102949.32		
Client Sample I.D.				1222-D-102-W3	1222-D-201-W1		
Date Sampled				12/22/2019	12/22/2019		
Date Prepared				12/27/2019	12/27/2019	12/27/2019	
Preparation Method				3540C	3540C	3540C	
Date Analyzed				12/30/2019	12/30/2019	12/30/2019	
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.			Method Blank	102949.31	102949.32		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		90.4	77.0	93.6		
Tetrachloro-m-xylene	30-150		73.2	85.6	78.4		



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122819

Our Lab I.D.		Method Blank	102949.33	102949.34	102949.35	102949.36
Client Sample I.D.			1222-D-201-W2	1222-D-201-W3	1222-D-201-W4	1222-D-203-W1
Date Sampled			12/22/2019	12/22/2019	12/22/2019	12/22/2019
Date Prepared			12/28/2019	12/28/2019	12/28/2019	12/28/2019
Preparation Method			3540C	3540C	3540C	3540C
Date Analyzed			12/30/2019	12/30/2019	12/30/2019	12/30/2019
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
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND
Our Lab I.D.			Method Blank	102949.33	102949.34	102949.35
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		68.4	54.8	71.2	78.2
Tetrachloro-m-xylene	30-150		67.0	54.6	68.4	68.0
						77.8



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122819

Our Lab I.D.		102949.37	102949.38	102949.39	102949.40	102949.41
Client Sample I.D.		1222-D-203-W2	1222-D-203-W3	1222-D-204-W1	1222-D-204-W2	1222-D-204-W3
Date Sampled		12/22/2019	12/22/2019	12/22/2019	12/22/2019	12/22/2019
Date Prepared		12/28/2019	12/28/2019	12/28/2019	12/28/2019	12/28/2019
Preparation Method		3540C	3540C	3540C	3540C	3540C
Date Analyzed		12/30/2019	12/30/2019	12/30/2019	12/30/2019	12/30/2019
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
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	ND	0.052J	ND
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND
Our Lab I.D.		102949.37	102949.38	102949.39	102949.40	102949.41
Surrogates	%Rec.Limit	% Rec.				
Decachlorobiphenyl	30-150	51.8	54.6	82.8	51.6	40.6
Tetrachloro-m-xylene	30-150	55.0	55.8	67.6	56.0	58.6



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122819

Our Lab I.D.		102949.42	102949.43	102949.44	102949.45	102949.46
Client Sample I.D.		1222-D-207-W1	1222-D-207-W2	1222-D-207-W3	1222-D-212-W1	1222-D-212-W2
Date Sampled		12/22/2019	12/22/2019	12/22/2019	12/22/2019	12/22/2019
Date Prepared		12/28/2019	12/28/2019	12/28/2019	12/28/2019	12/28/2019
Preparation Method		3540C	3540C	3540C	3540C	3540C
Date Analyzed		12/30/2019	12/30/2019	12/30/2019	12/30/2019	12/30/2019
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
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND
Our Lab I.D.		102949.42	102949.43	102949.44	102949.45	102949.46
Surrogates	%Rec.Limit	% Rec.				
Decachlorobiphenyl	30-150	80.8	59.6	55.2	71.2	98.8
Tetrachloro-m-xylene	30-150	52.8	62.8	52.2	62.0	65.2



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122819

Our Lab I.D.		102949.47	102949.48	102949.49	102949.50	102949.51
Client Sample I.D.		1222-D-212-W3	1222-J-700-W1	1222-J-700-W2	1222-J-700-W3	1221-Q1
Date Sampled		12/22/2019	12/22/2019	12/22/2019	12/22/2019	12/21/2019
Date Prepared		12/28/2019	12/28/2019	12/28/2019	12/28/2019	12/28/2019
Preparation Method		3540C	3540C	3540C	3540C	3540C
Date Analyzed		12/30/2019	12/30/2019	12/30/2019	12/30/2019	12/30/2019
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
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND
Our Lab I.D.			102949.47	102949.48	102949.49	102949.50
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		86.8	56.0	59.0	78.2
Tetrachloro-m-xylene	30-150		47.6	68.2	53.0	72.4



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ANALYTICAL RESULTS

Ordered By

Alta Environmental
3777 Long Beach Boulevard
Annex Building
Long Beach, CA 90807-

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 15

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122819

Our Lab I.D.			102949.52				
Client Sample I.D.			1222-Q1				
Date Sampled			12/22/2019				
Date Prepared			12/28/2019				
Preparation Method			3540C				
Date Analyzed			12/30/2019				
Matrix			Solid				
Units			ug/100cm ²				
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	ND				
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.			102949.52				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		61.2				
Tetrachloro-m-xylene	30-150		66.2				



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QUALITY CONTROL RESULTS

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3777 Long Beach Boulevard
Annex Building
Long Beach, CA 90807-

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Attn: Jonathan Barkman

Page: 16

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122419ZB1; LCS: Blank; LCS Prepared: 12/24/2019; LCS Analyzed: 12/27/2019; 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)	0.500	0.300	59.6	0.500	0.290	58.8	1.35	50-150	<20	
Aroclor-1260 (PCB-1260)	0.500	0.360	72.6	0.500	0.400	80.4	10.2	50-150	<20	
Surrogates										
Decachlorobiphenyl	0.0500	0.0461	92.2	0.0500	0.0487	97.4	5.64	30-150	<20	
Tetrachloro-m-xylene	0.0500	0.0453	90.6	0.0500	0.0471	94.2	3.97	30-150	<20	



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QUALITY CONTROL RESULTS

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Annex Building
Long Beach, CA 90807-

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 17

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122619ZB1; LCS: Blank; LCS Prepared: 12/26/2019; LCS Analyzed: 12/28/2019; 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)	0.500	0.330	66.6	0.500	0.320	64.4	3.36	50-150	<20	
Aroclor-1260 (PCB-1260)	0.500	0.410	81.4	0.500	0.410	81.0	<1	50-150	<20	
Surrogates										
Decachlorobiphenyl	0.0500	0.0402	80.4	0.0500	0.0394	78.8	1.99	30-150	<20	
Tetrachloro-m-xylene	0.0500	0.0385	77.0	0.0500	0.0420	84.0	9.09	30-150	<20	



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QUALITY CONTROL RESULTS

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Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 18

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122719ZB1; LCS: Blank; LCS Prepared: 12/27/2019; LCS Analyzed: 12/30/2019; 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)	0.500	0.370	73.0	0.500	0.340	68.4	6.51	50-150	<20	
Aroclor-1260 (PCB-1260)	0.500	0.420	83.4	0.500	0.400	80.2	3.91	50-150	<20	
Surrogates										
Decachlorobiphenyl	0.0500	0.0421	84.2	0.0500	0.0417	83.4	<1	30-150	<20	
Tetrachloro-m-xylene	0.0500	0.0422	84.4	0.0500	0.0441	88.2	4.50	30-150	<20	



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Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 19

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102949	12/23/2019	ALTA

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

QC Batch No: 122819; LCS: Blank; LCS Prepared: 12/28/2019; LCS Analyzed: 12/30/2019; 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)	0.500	0.454	90.8	0.500	0.412	82.4	9.7	50-150	<20	
Aroclor-1260 (PCB-1260)	0.500	0.443	88.6	0.500	0.432	86.4	2.5	50-150	<20	
Surrogates										
Decachlorobiphenyl	0.0500	0.0520	104	0.0500	0.0449	89.8	14.7	30-150	<20	
Tetrachloro-m-xylene	0.0500	0.0394	78.8	0.0500	0.0390	78.0	1.0	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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3777 Long Beach Boulevard Annex
Building

Long Beach, CA 90807-

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

Number of Pages 12

Date Received 12/23/2019

Date Reported 12/31/2019

Job Number	Order Date	Client
102948	12/23/2019	ALTA

Project ID: SMSD-18-8201
Project Name: Malibu HS PCB Qtrly Sampling
Site: Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

Enclosed please find results of analyses of 21 gaseous and 9 wipe 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



American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

104229

COMPANY	AETL Environmental		PROJECT MANAGER	Jonathan Barkman	
COMPANY ADDRESS	3777 Long Beach Blvd, Long Beach, CA		PHONE	FAX	
PROJECT NAME	Malibu HS PCB Quarterly Sampling		PROJECT #	SN SD-18-8201	
SITE NAME AND ADDRESS	Malibu High School, 30215 Morning View Dr, Malibu CA		PO #		

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1220-D-201	102948.01	12/20/19	19:36	AIR	1	1CE
1220-D-203	102948.02	12/20/19	19:38	AIR	1	1CE
1220-D-204	102948.03	12/20/19	19:40	AIR	1	1CE
1220-D-207	102948.04	12/20/19	19:45	AIR	1	1CE
1220-D-212	102948.05	12/20/19	19:49	AIR	1	1CE
1220-D-101A	C12948.06	12/20/19	20:22	AIR	1	1CE
1220-D-101B	102948.07	12/20/19	20:24	AIR	1	1CE
1220-D-102	102948.08	12/20/19	20:38	AIR	1	1CE
1220-D-105	102948.09	12/20/19	20:29	AIR	1	1CE
1220-D-120	102948.10	12/20/19	20:32	AIR	1	1CE
1220-A	102948.11	12/20/19	20:31	AIR	1	1CE
1220-J-700	102948.12	12/20/19	20:57	AIR	1	1CE
1221-F-303	102948.13	12/21/19	20:08	AIR	1	1CE
1221-G-504	102948.14	12/21/19	20:11	AIR	1	1CE
1221-G-505	102948.15	12/21/19	20:13	AIR	1	1CE

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

RELINQUISHED BY:

- 1.** **RELINQUISHED BY:** **3.**
John Barkman
Signature: _____ Printed Name: *John Barkman*
Date: *12-23-19* Time: *15:04*

- 2.** **RELINQUISHED BY:** **3.**
John Barkman
Signature: _____ Printed Name: *John Barkman*
Date: *12-23-19* Time: *18:25*

- 1.** **RECEIVED BY:** **2.**
John Barkman
Signature: _____ Printed Name: *John Barkman*
Date: *12-23-19* Time: *15:04*

- RECEIVED BY:** **2.** **LABORATORY:** **3.**
John Barkman
Signature: _____ Printed Name: *John Barkman*
Date: *12-23-19* Time: *18:25*

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED <input checked="" type="checkbox"/> Y/N NA	HARD COPY <input type="checkbox"/> PDF <input type="checkbox"/> GEOTRACKER (GLOBAL ID) _____
CUSTODY SEALS <input checked="" type="checkbox"/> Y/N NA		SAMPLES INTACT <input checked="" type="checkbox"/> Y/N NA	OTHER (PLEASE SPECIFY) _____
RECEIVED IN GOOD COND. <input checked="" type="checkbox"/> Y/N		SAMPLES ACCEPTED <input checked="" type="checkbox"/> Y/N	
TURN AROUND TIME			
NORMAL <input type="checkbox"/> RUSH <input type="checkbox"/>	SAME DAY <input type="checkbox"/> NEXT DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS <input type="checkbox"/>	Time: <i>15:04</i>	
DATA DELIVERABLE REQUIRED		Signature: <i>John Barkman</i> Printed Name: <i>John Barkman</i> Date: <i>12-23-19</i> Time: <i>15:04</i>	
DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator			

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CHAIN OF CUSTODY RECORD

6 *1/21/08*
N^o 96769

Page 2 of 2
ATEL JOB No. /02948

COMPANY All Environ mental
COMPANY ADDRESS 3727 1/2 Beach Blvd, Annex Bldg, 3rd flr, FAX
PROJECT NAME MHs PROJECT # SMAAD-18-8224
PO # PER Quantedy Sampling
SITE NAME 30215 Morning Star Vicas Dr
ADDRESS Malibu CA

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TEST INSTRUCTIONS & COMMENTS		
							ANALYSIS REQUESTED		
1	1221-H-600	102948-16	12/21/18	20:23	AIR	1	X	X	7253,9 L
2	1221-H-678	102948-17	12/21/18	20:25	AIR	1	X	X	7248.35 L
3	1221-H-666A	102948-18	12/21/18	20:42	AIR	1	X	X	7275.6 L
4	1221-H-605A	102948-19	12/21/18	20:45	AIR	1	X	X	7253.9 L
5	1221-H-605	102948-20	12/21/18	20:48	AIR	1	X	X	7246.68 L
6	1221-A	102948-21	12/21/18	20:57	AIR	1	X	X	7239.45 L (ambient)
7	1221-G-504-w1	102948-21	12/21/18	17:02	wipe	1	X	X	10cm ²
8	1221-G-504-w2	102948-23	12/21/18	17:04	wipe	1	X	X	10cm ²
9	1221-G-504-w3	102948-24	12/21/18	17:07	wipe	1	X	X	10cm ²
10	1221-G-505-w1	102948-25	12/21/18	17:13	wipe	1	X	X	10cm ²
11	1221-G-505-w2	102948-26	12/21/18	17:15	wipe	1	X	X	10cm ²
12	1221-G-505-w3	102948-27	12/21/18	17:18	wipe	1	X	X	10cm ²
13	1221-F-303-w1	102948-28	12/21/18	17:28	wipe	1	X	X	10cm ²
14	1221-F-303-w2	102948-29	12/21/18	17:31	wipe	1	X	X	10cm ²
15	1221-F-303-w3	102948-30	12/21/18	17:34	wipe	1	X	X	10cm ²

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED Y/N	Signature: <i>John Johnson</i>
CUSTODY SEALS Y/N	Y/N	SAMPLES INTACT Y/N	Printed Name: <i>John Johnson</i>
RECEIVED IN GOOD COND. Y/N	Y/N	SAMPLES ACCEPTED Y/N	Date: <i>12/23/18</i> Time: <i>15:04</i>
TURN AROUND TIME			DATA DELIVERABLE REQUIRED
NORMAL <input type="checkbox"/> RUSH <input type="checkbox"/>	SAME DAY <input type="checkbox"/> NEXT DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS <input type="checkbox"/>	HARD COPY <input type="checkbox"/> PDF <input type="checkbox"/> GEOTRACKER (GLOBAL ID) _____	OTHER (PLEASE SPECIFY) _____

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

RELINQUISHED BY:

2.	Signature: <i>John Johnson</i>	Printed Name: <i>John Johnson</i>
3.	Signature: <i>John Johnson</i>	Printed Name: <i>John Johnson</i>
2.	RECEIVED BY: <i>John Johnson</i>	RECEIVED BY: <i>John Johnson</i>
3.	Signature: <i>John Johnson</i>	Printed Name: <i>John Johnson</i>



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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

COOLER RECEIPT FORM

Client Name:	Alta			
Project Name:				
AETL Job Number:	102948 / 102949			
Date Received:	12/23/19	Received by:	AETL	
Carrier:	<input checked="" type="checkbox"/> AETL Courier	<input type="checkbox"/> Client	<input type="checkbox"/> GSO	<input type="checkbox"/> FedEx
	<input type="checkbox"/> Others:			
Samples were received in:	<input checked="" type="checkbox"/> Cooler () <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container	No 1: , 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 checked="" type="checkbox"/> None, <input 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?	✓			
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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Page: 1 A

Ordered By

Alta Environmental
3777 Long Beach Boulevard Annex
Building
Long Beach, CA 90807-

Telephone: (562) 495-5777

Attention: Jonathan Barkman

Project ID: SMSD-18-8201

Date Received 12/23/2019

Date Reported 12/30/2019

Job Number	Order Date	Client
102948	12/23/2019	ALTA

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 30 samples with the following specification on 12/23/2019.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
102948.01	1220-D-201	12/20/2019	Gaseous	1
102948.02	1220-D-203	12/20/2019	Gaseous	1
102948.03	1220-D-204	12/20/2019	Gaseous	1
102948.04	1220-D-207	12/20/2019	Gaseous	1
102948.05	1220-D-212	12/20/2019	Gaseous	1
102948.06	1220-D-101A	12/20/2019	Gaseous	1
102948.07	1220-D-101B	12/20/2019	Gaseous	1
102948.08	1220-D-102	12/20/2019	Gaseous	1
102948.09	1220-D-105	12/20/2019	Gaseous	1
102948.10	1220-D-120	12/20/2019	Gaseous	1
102948.11	1220-A	12/20/2019	Gaseous	1
102948.12	1220-J-700	12/20/2019	Gaseous	1
102948.13	1221-F-303	12/21/2019	Gaseous	1
102948.14	1221-G-504	12/21/2019	Gaseous	1
102948.15	1221-G-505	12/21/2019	Gaseous	1
102948.16	1221-H-600	12/21/2019	Gaseous	1
102948.17	1221-H-678	12/21/2019	Gaseous	1
102948.18	1221-H-606A	12/21/2019	Gaseous	1
102948.19	1221-H-605A	12/21/2019	Gaseous	1
102948.20	1221-H-605	12/21/2019	Gaseous	1
102948.21	1221-A	12/21/2019	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-10A ^ PCB-NG/M3	12/30/2019	2	Normal	ng/m3

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
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Continued



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3777 Long Beach Boulevard Annex
Building
Long Beach, CA 90807-

Telephone: (562) 495-5777

Attention: Jonathan Barkman

Project ID: SMSD-18-8201

Date Received 12/23/2019

Date Reported 12/30/2019

Job Number	Order Date	Client
102948	12/23/2019	ALTA

CERTIFICATE OF ANALYSIS CASE NARRATIVE

Lab ID		Sample ID		Matrix	
102948.22	1221-G-504-W1	12/21/2019	Solid	1	
102948.23	1221-G-504-W2	12/21/2019	Solid	1	
102948.24	1221-G-504-W3	12/21/2019	Solid	1	
102948.25	1221-G-505-W1	12/21/2019	Solid	1	
102948.26	1221-G-505-W2	12/21/2019	Solid	1	
102948.27	1221-G-505-W3	12/21/2019	Solid	1	
102948.28	1221-F-303-W1	12/21/2019	Solid	1	
102948.29	1221-F-303-W2	12/21/2019	Solid	1	
102948.30	1221-F-303-W3	12/21/2019	Solid	1	
Method ^ Submethod		Req Date	Priority	TAT	Units
(8082) ^ WIPE-2		12/30/2019	2	Normal	ug/100cm ²

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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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102948	12/23/2019	ALTA

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

QC Batch No: 122319

Our Lab I.D.			Method Blank	102948.01	102948.02	102948.03	102948.04
Client Sample I.D.				1220-D-201	1220-D-203	1220-D-204	1220-D-207
Date Sampled				12/20/2019	12/20/2019	12/20/2019	12/20/2019
Date Prepared			12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019
Preparation Method			TO10	TO10	TO10	TO10	TO10
Date Analyzed			12/27/2019	12/27/2019	12/27/2019	12/27/2019	12/27/2019
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	14	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	28	28	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	14	14	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	14	14	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	14	14	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	14	14	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	14	14	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	14	14	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	14	14	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	102948.01	102948.02	102948.03	102948.04
Surrogates	% Rec. Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		98.2	71.6	82.6	72.0	80.4
Tetrachloro-m-xylene	30-150		83.6	40.9	43.4	40.6	41.6



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102948	12/23/2019	ALTA

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

QC Batch No: 122319

Our Lab I.D.			102948.05	102948.06	102948.07	102948.08	102948.09
Client Sample I.D.			1220-D-212	1220-D-101A	1220-D-101B	1220-D-102	1220-D-105
Date Sampled			12/20/2019	12/20/2019	12/20/2019	12/20/2019	12/20/2019
Date Prepared			12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019
Preparation Method			TO10	TO10	TO10	TO10	TO10
Date Analyzed			12/27/2019	12/27/2019	12/27/2019	12/27/2019	12/27/2019
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	14	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	28	28	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	14	14	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	14	14	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	14	14	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	14	14	ND	15.1	ND	ND	ND
Aroclor-1260 (PCB-1260)	14	14	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	14	14	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	14	14	ND	ND	ND	ND	ND
Our Lab I.D.			102948.05	102948.06	102948.07	102948.08	102948.09
Surrogates	% Rec. Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		72.6	59.4	68.2	73.4	84.6
Tetrachloro-m-xylene	30-150		36.6	38.8	40.2	44.4	47.4



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102948	12/23/2019	ALTA

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

QC Batch No: 122319

Our Lab I.D.			102948.10	102948.11	102948.12	102948.13	102948.14
Client Sample I.D.			1220-D-120	1220-A	1220-J-700	1221-F-303	1221-G-504
Date Sampled			12/20/2019	12/20/2019	12/20/2019	12/21/2019	12/21/2019
Date Prepared			12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019
Preparation Method			TO10	TO10	TO10	TO10	TO10
Date Analyzed			12/27/2019	12/27/2019	12/27/2019	12/27/2019	12/27/2019
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	14	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	28	28	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	14	14	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	14	14	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	14	14	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	14	14	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	14	14	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	14	14	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	14	14	ND	ND	ND	ND	ND
Our Lab I.D.			102948.10	102948.11	102948.12	102948.13	102948.14
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		63.2	86.6	78.8	82.8	80.2
Tetrachloro-m-xylene	30-150		41.1	55.6	45.2	47.9	44.8



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102948	12/23/2019	ALTA

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

QC Batch No: 122319

Our Lab I.D.			102948.15	102948.16	102948.17	102948.18	102948.19
Client Sample I.D.			1221-G-505	1221-H-600	1221-H-678	1221-H-606A	1221-H-605A
Date Sampled			12/21/2019	12/21/2019	12/21/2019	12/21/2019	12/21/2019
Date Prepared			12/23/2019	12/23/2019	12/23/2019	12/23/2019	12/23/2019
Preparation Method			TO10	TO10	TO10	TO10	TO10
Date Analyzed			12/27/2019	12/27/2019	12/27/2019	12/27/2019	12/27/2019
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	14	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	28	28	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	14	14	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	14	14	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	14	14	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	14	14	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	14	14	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	14	14	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	14	14	ND	ND	ND	ND	ND
Our Lab I.D.			102948.15	102948.16	102948.17	102948.18	102948.19
Surrogates	% Rec. Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		51.6	98.0	51.0	68.2	60.6
Tetrachloro-m-xylene	30-150		31.0	46.8	32.4	38.8	22.8



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102948	12/23/2019	ALTA

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

QC Batch No: 122319

Our Lab I.D.			102948.20				
Client Sample I.D.			1221-H-605				
Date Sampled			12/21/2019				
Date Prepared			12/23/2019				
Preparation Method			TO10				
Date Analyzed			12/27/2019				
Matrix			Gaseous				
Units			ng/m3				
Dilution Factor			1				
Analytes	MDL	PQL	Results				
Aroclor-1016 (PCB-1016)	14	14	ND				
Aroclor-1221 (PCB-1221)	28	28	ND				
Aroclor-1232 (PCB-1232)	14	14	ND				
Aroclor-1242 (PCB-1242)	14	14	ND				
Aroclor-1248 (PCB-1248)	14	14	ND				
Aroclor-1254 (PCB-1254)	14	14	ND				
Aroclor-1260 (PCB-1260)	14	14	ND				
Aroclor-1262 (PCB-1262)	14	14	ND				
Aroclor-1268 (PCB-1268)	14	14	ND				
Our Lab I.D.			102948.20				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		86.8				
Tetrachloro-m-xylene	30-150		53.4				



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102948	12/23/2019	ALTA

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

QC Batch No: 012419

Our Lab I.D.			Method Blank	102948.21			
Client Sample I.D.				1221-A			
Date Sampled				12/21/2019			
Date Prepared			12/23/2019	12/23/2019			
Preparation Method			TO10	TO10			
Date Analyzed			12/27/2019	12/27/2019			
Matrix			Gaseous	Gaseous			
Units			ng/m3	ng/m3			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
Aroclor-1016 (PCB-1016)	14	14	ND	ND			
Aroclor-1221 (PCB-1221)	28	28	ND	ND			
Aroclor-1232 (PCB-1232)	14	14	ND	ND			
Aroclor-1242 (PCB-1242)	14	14	ND	ND			
Aroclor-1248 (PCB-1248)	14	14	ND	ND			
Aroclor-1254 (PCB-1254)	14	14	ND	ND			
Aroclor-1260 (PCB-1260)	14	14	ND	ND			
Aroclor-1262 (PCB-1262)	14	14	ND	ND			
Aroclor-1268 (PCB-1268)	14	14	ND	ND			
Our Lab I.D.			Method Blank	102948.21			
Surrogates	%Rec. Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		95.0	98.2			
Tetrachloro-m-xylene	30-150		85.8	56.2			



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102948	12/23/2019	ALTA

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

QC Batch No: 122419ZB1

Our Lab I.D.			Method Blank	102948.22	102948.23	102948.24	102948.25
Client Sample I.D.				1221-G-504-W1	1221-G-504-W2	1221-G-504-W3	1221-G-505-W1
Date Sampled				12/21/2019	12/21/2019	12/21/2019	12/21/2019
Date Prepared				12/24/2019	12/24/2019	12/24/2019	12/24/2019
Preparation Method				3540C	3540C	3540C	3540C
Date Analyzed				12/27/2019	12/27/2019	12/27/2019	12/27/2019
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	0.187	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	102948.22	102948.23	102948.24	102948.25
Surrogates	% Rec. Limit			% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150			78.0	71.4	76.6	90.2
Tetrachloro-m-xylene	30-150			68.6	62.4	48.2	58.0



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102948	12/23/2019	ALTA

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

QC Batch No: 122419ZB1

Our Lab I.D.		102948.26	102948.27	102948.28	102948.29	102948.30
Client Sample I.D.		1221-G-505-W2	1221-G-505-W3	1221-F-303-W1	1221-F-303-W2	1221-F-303-W3
Date Sampled		12/21/2019	12/21/2019	12/21/2019	12/21/2019	12/21/2019
Date Prepared		12/24/2019	12/24/2019	12/24/2019	12/24/2019	12/24/2019
Preparation Method		3540C	3540C	3540C	3540C	3540C
Date Analyzed		12/27/2019	12/27/2019	12/27/2019	12/27/2019	12/27/2019
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
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	0.075J	0.099J	0.059J
Aroclor-1260 (PCB-1260)	0.05	0.10	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.05	0.10	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.05	0.10	ND	ND	ND	ND
Our Lab I.D.		102948.26	102948.27	102948.28	102948.29	102948.30
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		55.0	66.0	95.6	104
Tetrachloro-m-xylene	30-150		44.6	63.8	66.0	51.2
						50.8



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QUALITY CONTROL RESULTS

Ordered By

Alta Environmental
3777 Long Beach Boulevard
Annex Building
Long Beach, CA 90807-

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 10

Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102948	12/23/2019	ALTA

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

QC Batch No: 012419; LCS: Blank; LCS Prepared: 12/23/2019; LCS Analyzed: 12/27/2019; Units: ng/m3

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)	1,000	769	76.9	1,000	931	93.1	19.1	40-140	<40	
Aroclor-1260 (PCB-1260)	1,000	829	82.9	1,000	901	90.1	8.3	40-140	<40	
Surrogates										
Decachlorobiphenyl	25.0	22.5	90.0	25.0	25.5	102	12.5	30-150	<30	
Tetrachloro-m-xylene	25.0	18.6	74.4	25.0	20.5	82.0	9.7	30-150	<30	



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102948	12/23/2019	ALTA

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

QC Batch No: 122319; LCS: Blank; LCS Prepared: 12/23/2019; LCS Analyzed: 12/27/2019; Units: ng/m3

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)	1,000	771	77.1	1,000	795	79.5	3.1	40-140	<40	
Aroclor-1260 (PCB-1260)	1,000	832	83.2	1,000	838	83.8	<1	40-140	<40	
Surrogates										
Decachlorobiphenyl	25.0	23.7	94.8	25.0	25.0	100	5.3	30-150	<30	
Tetrachloro-m-xylene	25.0	20.5	82.0	25.0	21.0	84.0	2.4	30-150	<30	



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Project ID: SMSD-18-8201

Project Name: Malibu HS PCB Qtrly Sampling

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

AETL Job Number	Submitted	Client
102948	12/23/2019	ALTA

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

QC Batch No: 122419ZB1; LCS: Blank; LCS Prepared: 12/24/2019; LCS Analyzed: 12/27/2019; 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)	0.500	0.300	59.6	0.500	0.290	58.8	1.35	50-150	<20	
Aroclor-1260 (PCB-1260)	0.500	0.360	72.6	0.500	0.400	80.4	10.2	50-150	<20	
Surrogates										
Decachlorobiphenyl	0.0500	0.0461	92.2	0.0500	0.0487	97.4	5.64	30-150	<20	
Tetrachloro-m-xylene	0.0500	0.0453	90.6	0.0500	0.0471	94.2	3.97	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
