



ALTA
ENVIRONMENTAL
AN **N|V|5** COMPANY

FOLLOW UP PCB AIR AND WIPE SAMPLING REPORT

Malibu High School
Building 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: October 22, 2019

Alta Environmental
3777 Long Beach Boulevard Annex Building
Long Beach CA 90807 United States of America
T (562) 495 5777 F (562) 495 5877
Toll-free (US only) 800 777-0605 altaenviron.com

EXECUTIVE SUMMARY



On behalf of the Santa Monica-Malibu Unified School District (District), Alta Environmental (Alta) has prepared this report summarizing follow-up air and wipe sampling activities completed for Malibu High School Buildings G, H, and J located at 30215 Morning View Drive, Malibu, California 90265. The sampling activities were conducted as a follow-up to the findings of our third quarter 2019 (3Q2019) polychlorinated biphenyl (PCB) sampling event. During the 3Q2019 sampling event trace concentrations of PCBs were detected in some of the air and wipes samples collected from Buildings G, H, and J. While all of these detections were well below established regulatory agency screening levels, in an abundance of caution, additional follow-up sampling was conducted.

PCB Air Sampling Results

Based on the laboratory results, concentrations of PCBs were not detected above laboratory detection limits in any of the air samples collected during this investigation.

PCB Wipe Sampling Results

Concentrations of the PCB Aroclor-1254 were detected in wipe samples collected from Buildings H and J ranging from 0.153 $\mu\text{g}/\text{cm}^2$ to 0.554 $\mu\text{g}/\text{cm}^2$. The reported wipe sample concentrations are below the EPA Region XI health-based benchmark.

Conclusions

Based on this information, no significant concentrations of PCBs were detected in the air and surface wipe samples collected and analyzed during this sampling event.

CONTENTS



1	PROJECT BACKGROUND	1
2	SCOPE OF SERVICES	1
3	METHODOLOGY	1
3.1	Air Sampling	1
3.2	Wipe Sampling	1
4	RESULTS	2
4.1	Air Sampling	2
4.2	Wipe Sampling	2
5	QUALITY CONTROL	2
6	CONCLUSIONS	3
7	ASSUMPTIONS AND LIMITATIONS	3
8	SIGNATORY	3

Appendices

- Appendix A: Figures
- Appendix B: Sample Inventories
- Appendix C: Laboratory Reports

REPORTED: October 22, 2019

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: Follow-up PCBs Air and Wipe Sampling Report
Building G, H, and J
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) to conduct quarterly polychlorinated biphenyl (PCBs) air and wipe sampling services for Malibu High School, located at 30215 Morning View Drive, Malibu, CA 90265. This report presents the findings of additional sampling conducted to follow-up on the trace-level PCB concentrations detected during our third quarter 2019 (3Q2019) PCB sampling event.

2 SCOPE OF SERVICES

On behalf of the District, Alta collected 7 air samples (including 1 field-blank sample and 1 ambient/background sample) and 17 wipe samples (including 1 field-blank sample and 1 duplicate sample) within Buildings G, H, and J.

3 METHODOLOGY

3.1 Air Sampling

Alta deployed air sampling units at various locations within Building G (1 sample), Building H (1 sample), and Building J (3 samples). Figures depicting the air sample locations are presented as Appendix A.

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, without the use of pre-filters. Following collection, each sample was properly packaged, labeled, and recorded on a chain-of-custody for transported to American Environmental Testing Laboratory located in Burbank, California. Samples were analyzed for PCBs using EPA Method TO-10A.

3.2 Wipe Sampling

Alta conducted wipe sampling at various locations within Building G (3 samples), H (4 samples) and J (9 samples). Figures depicting the wipe sample locations are presented as Appendix A.

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 American

Environmental Testing Laboratory. All samples were prepared for analysis by the laboratory using EPA Method 3540 (Soxhlet extraction) and were analyzed for PCBs using EPA Method 8082A.

4 RESULTS

The following presents a summary of the analytical results for the air and wipe samples collected during this investigation. Additional details, including identification of the individual rooms and the surfaces sampled within each building are provided in Appendix B – Sample Inventories. Appendix C presents a copy of the laboratory analytical report.

4.1 Air Sampling

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

4.2 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:

Sample Location	Sample Number	Total PCBs ($\mu\text{g}/100\text{ cm}^2$)
Building H, Room 619	0930-619-W1	0.153 (Aroclor 1254)
Building J, Room 704 (Placard ID)	0930-704-W2	0.554 (Aroclor 1254)
Building J, Room 704 (Placard ID)	0930-704-W3	0.311 (Aroclor 1254)
Building J, Room 705 (Placard ID)	0930-705-W2	0.182 (Aroclor 1254)

The results of these samples were compared with the EPA Region XI health-based benchmark of $1\mu\text{g}/100\text{cm}^2$.

5 QUALITY CONTROL

Quality control (QC) duplicate and field-blank samples were collected during this investigation as methods to evaluate sampling and analytical precision. Alta collected 1 duplicate sample and 2 field blank samples during the course of this investigation. Laboratory results of the QC samples were reported within acceptable limits.

Sample extraction and analysis was completed by American Environmental Testing Laboratory, located at 2834 North Naomi St. Burbank, California 91504. American Environmental Testing Laboratory is a California state-certified environmental testing laboratory. 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.

6 CONCLUSIONS

Concentrations of PCBs were not detected above laboratory detection limits in any of the air samples collected during this investigation. Concentrations of the PCB Aroclor-1254 were detected in wipe samples collected from Buildings H and J ranging from 0.153 $\mu\text{g}/\text{cm}^2$ to 0.554 $\mu\text{g}/\text{cm}^2$. The reported wipe sample concentrations are below the EPA Region XI health-based benchmark.

Based on this information, no significant concentrations of PCBs were detected in the air and surface wipe samples collected and analyzed during this sampling event.

7 ASSUMPTIONS AND LIMITATIONS

This report was prepared exclusively for use by Santa Monica Malibu Unified School District and may not be relied upon by any other person or entity without Alta Environmental'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 Environmental 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 Environmental 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 Environmental accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

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

8 SIGNATORY

Respectfully submitted by:

Alta Environmental



Jonathon Barkman
Project Manager

Reviewed:

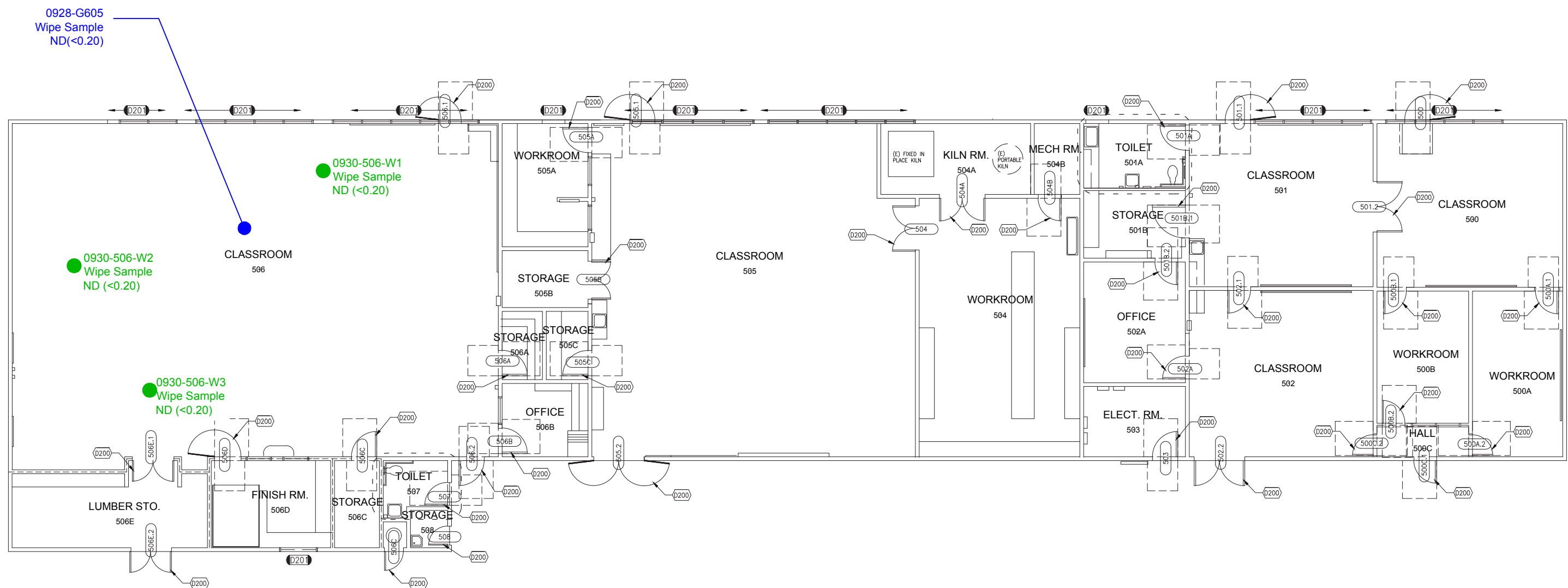
Alta Environmental



David R. Schack
Vice President, Building Sciences

Appendix A

Figures



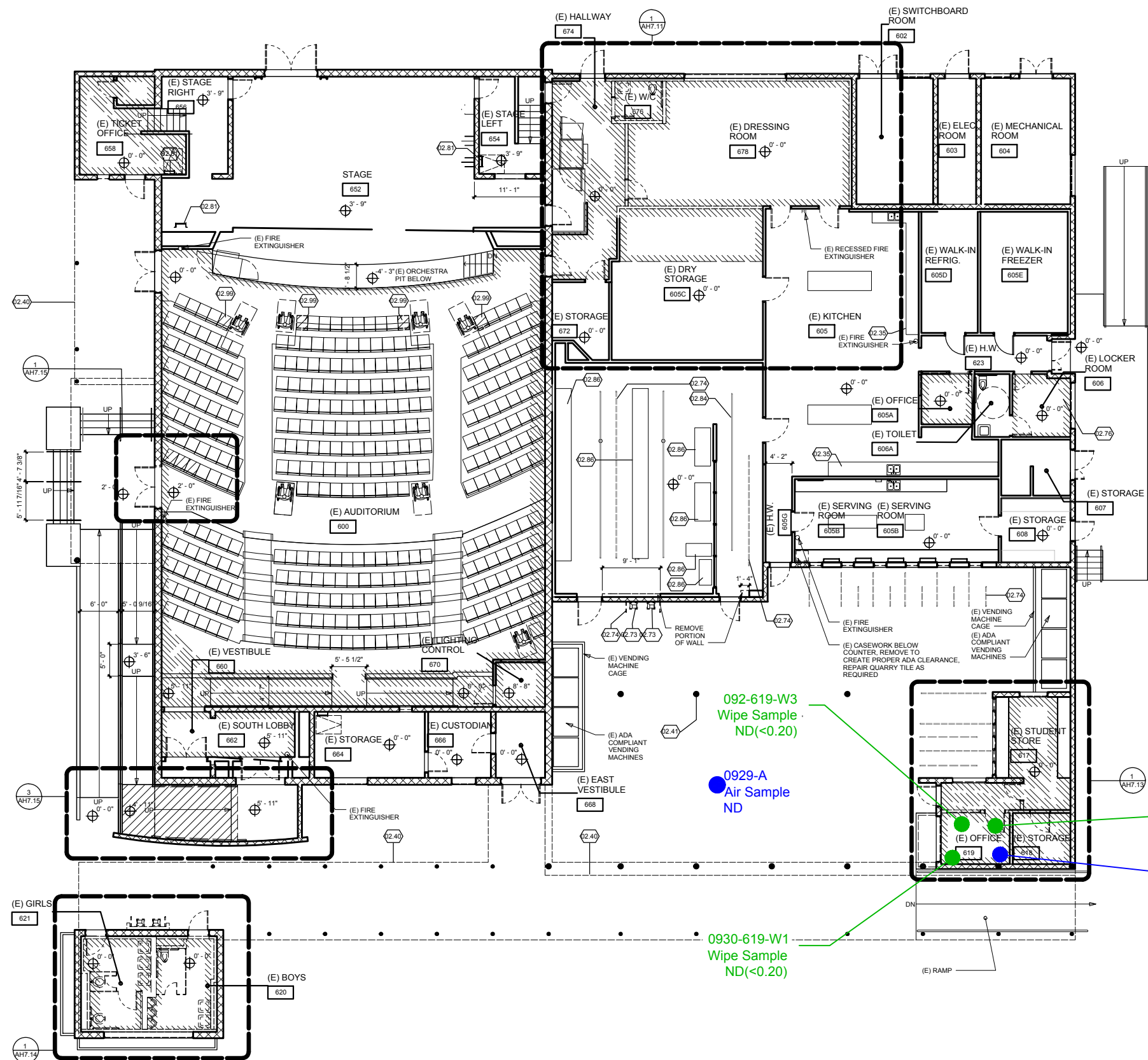
- Legend**
- Air Sample
 - Wipe Sample

Sample Location Map - Building G

Malibu High School
 30215 Morning View Drive
 Malibu, California



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



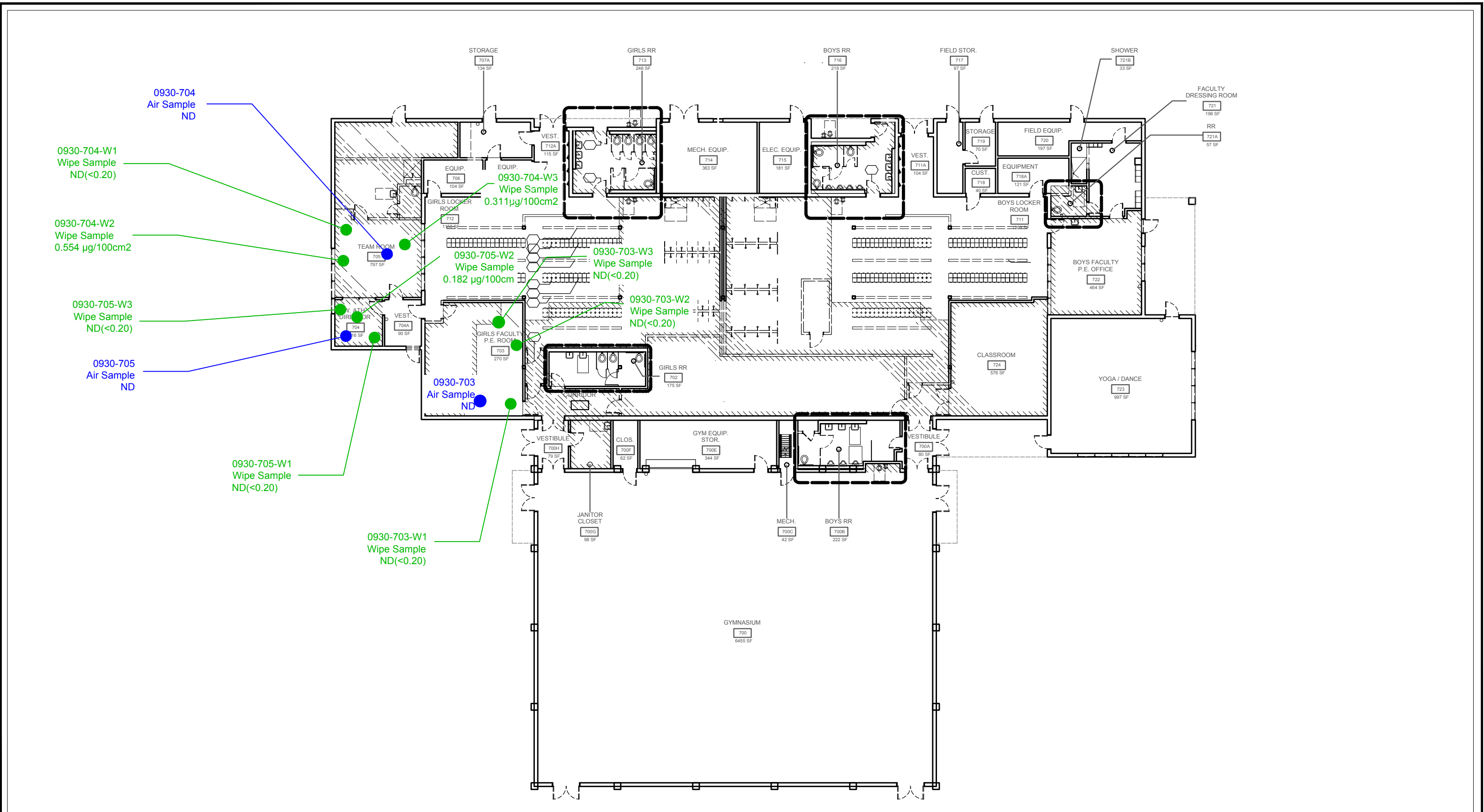
- Legend**
- Air Sample
 - Wipe Sample

Sample Location Map - Building H

Malibu High School
 30215 Morning View Drive
 Malibu, California



AN **NIV5** COMPANY
 3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
 P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ www.altaviron.com



- Legend**
- Air Sample
 - Wipe Sample

Sample Location Map - Building J

Malibu High School
30215 Morning View Drive
Malibu, California



ALTA
ENVIRONMENTAL
AN NVIS COMPANY

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

Appendix B

Sample Inventories

Surface Wipe Sampling Results
 Malibu High School
 Follow-up PCB Sampling - 3Q2019

CLIENT: SMMUSD
PROJECT NO: SMSD-18-8201
PROJECT: Malibu High School Quarterly Sampling

Building	Floor Plan ID	Room Description	Component Description	Sampling Date	Sample ID	Total PCBs ($\mu\text{g}/100\text{cm}^2$)
H	619	Studen Store Office	Windowsill - Laminate	9/30/2019	0930-619-W1	0.153
			Floor - Concrete	9/30/2019	0930-619-W2	ND (<0.20)
			Windowsill - Ceramic Tile	9/30/2019	0930-619-W3	ND (<0.20)
			Floor - Concrete	9/30/2019	0930-D1 (Duplicate of 619-W2)	ND (<0.20)
G	506	Wood Shop	Desk - Wood	9/30/2019	0930-506-W1	ND (<0.20)
			Bookshelf - Wood	9/30/2019	0930-506-W2	ND (<0.20)
			Floor - Wood	9/30/2019	0930-506-W3	ND (<0.20)
J	703	Girls Faculty PE Office	Desk - Wood	9/30/2019	0930-703-W1	ND (<0.20)
			Floor - Vinyl Tile	9/30/2019	0930-703-W2	ND (<0.20)
			Cabinet - Metal	9/30/2019	0930-703-W3	ND (<0.20)
	704	Athletic Director Office	Desk - Laminate	9/30/2019	0930-705-W1	ND (<0.20)
			Floor - Vinyl Tile	9/30/2019	0930-705-W2	0.182
			Bookshelf - Laminate	9/30/2019	0930-705-W3	ND (<0.20)
	705	Team Room	Desk - Wood	9/30/2019	0930-704-W1	ND (<0.20)
			Windowsill - Metal	9/30/2019	0930-704-W2	0.554
			Floor - Vinyl Tile	9/30/2019	0930-704-W3	0.311
Field Blank			Field Blank	9/30/2019	0930-Q1	ND (<0.20)

Notes:

$\mu\text{g}/100\text{cm}^2$ = microgram per 100 square centimeters

PCB = polychlorinated biphenyl

ND = Not detected above laboratory reporting limit

Air Sampling Results
Malibu High School
Follow-up PCB Sampling - 3Q2019

CLIENT: SMMUSD
PROJECT NO: SMSD-18-8201
PROJECT: Malibu High School Quarterly Sampling

Building	Floor Plan ID	Room Description	Sampling Date ^[a]	Sample ID	Total PCBs (ng/m ³)
G	506	Wood Shop	9/29/2019	0929-G506	ND
H	619	Studen Store Office	9/29/2019	0929-H619	ND
J	703	Girls Faculty PE Office	9/29/2019	0929-703	ND
	704	Athletic Director Office	9/29/2019	0929-705	ND
	705	Team Room	9/29/2019	0929-704	ND
Ambient	NA	NA	9/29/2019	0929-A	ND
Field blank	NA	NA	9/30/2019	0930-Blank	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 9
Date Received 10/01/2019
Date Reported 10/11/2019

Job Number	Order Date	Client
101368	10/01/2019	ALTA

Project ID: SMSD-18-8201
Project Name: Malibu Quarterly PCB Air&Wipe
Site: Malibu High School

Enclosed please find results of analyses of 17 wipe and 7 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
 2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181
 TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD
115873

AETL JOB No. **101368** Page **1** of **3**

COMPANY **ALTA Environmental** PROJECT MANAGER
 COMPANY ADDRESS **2777 Long Beach Blvd, Annex Bldg, Long Beach CA 90807** PHONE
 PROJECT NAME **Malibu Quarkley PCB AIR & WIPE Sampling SMSD-18-8201** PROJECT #
 SITE NAME AND ADDRESS **Malibu High School** NO #

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TEST INSTRUCTIONS & COMMENTS
0930-619-w1	101368.01	9/30/19	0835	WIPE	1	1CE	10cm ²
0930-619-w2	101368.02	9/30/19	0838	WIPE	1	1CE	10cm ²
0930-619-w3	101368.03	9/30/19	0840	WIPE	1	1CE	10cm ²
0930-506-w1	101368.04	9/30/19	0848	WIPE	1	1CE	10cm ²
0930-506-w2	101368.05	9/30/19	0852	WIPE	1	1CE	10cm ²
0930-506-w3	101368.06	9/30/19	0855	WIPE	1	1CE	10cm ²
0930-703-w1	101368.07	9/30/19	0920	WIPE	1	1CE	10cm ²
0930-703-w2	101368.08	9/30/19	0923	WIPE	1	1CE	10cm ²
0930-703-w3	101368.09	9/30/19	0928	WIPE	1	1CE	10cm ²
0930-704-w1	101368.10	9/30/19	0935	WIPE	1	1CE	10cm ²
0930-704-w2	101368.11	9/30/19	0940	WIPE	1	1CE	10cm ²
0930-704-w3	101368.12	9/30/19	0944	WIPE	1	1CE	10cm ²
0930-705-w1	101368.13	9/30/19	0950	WIPE	1	1CE	10cm ²
0930-705-w2	101368.14	9/30/19	0953	WIPE	1	1CE	10cm ²
0930-705-w3	101368.15	9/30/19	0958	WIPE	1	1CE	10cm ²

ANALYSIS REQUESTED

SOXLET Extraction

EPA 8082

RELINQUISHED BY:

1. SAMIR EPI Signature: *[Signature]* Date: **10/1/19** Time: **0900**

2. RECEIVED BY: Signature: *[Signature]* Date: **10/1/19** Time: **1115**

3. RELINQUISHED BY: Signature: *[Signature]* Date: **10/1/19** Time: **1115**

RECEIVED BY LABORATORY: Signature: *[Signature]* Date: **10/1/19** Time: **1115**

TURN AROUND TIME

NORMAL RUSH SAME DAY NEXT DAY 2 DAYS 3 DAYS

DATA DELIVERABLE REQUIRED

HARD COPY PDF GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY)

RECEIVED IN GOOD COND. Y N

PROPERLY COOLED Y N NA

SAMPLES INTACT Y N NA

SAMPLES ACCEPTED Y N

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



AMERICAN ENVIRONMENTAL TESTING LABORATORY
 2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181
 TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

115872

AETL JOB No. **101368**

Page **2** of **3**

COMPANY **ALTA Environmental** PROJECT MANAGER **Jonathan Berkman**
 COMPANY ADDRESS **3777 Long Beach Blvd, Annex Bldg, Long Beach, CA 90807**
 PROJECT NAME **Malibu Quarterly PCB AIR & WIFE Sampling SMSD-18-8201** PROJECT #
 SITE NAME **Malibu High School** PO #
 AND ADDRESS

ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS	
SAMPLE ID	LAB ID	DATE	MATRIX	CONTAINER NUMBER/SIZE	PRES.
0929-6506	101368.16	9/29/19	AIR	1	ICE
0929-14619	101368.17	9/29/19	AIR	1	ICE
0929-703	101368.18	9/29/19	AIR	1	ICE
0929-704	101368.19	9/29/19	AIR	1	ICE
0929-705	101368.20	9/29/19	AIR	1	ICE

RELINQUISHED BY:

1. SAMPLER: Signature: *[Signature]* Date: **10/1/19** Time: **0900**
 Printed Name: **MARC ARREDO**

2. RELINQUISHED BY: Signature: *[Signature]* Date: **10/1/19** Time: **1115**
 Printed Name: **[Signature]**

RECEIVED BY: Signature: *[Signature]* Date: **10/1/19** Time: **0900**
 Printed Name: **[Signature]**

RECEIVED BY: Signature: *[Signature]* Date: **10/1/19** Time: **1115**
 Printed Name: **[Signature]**

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS **5** PROPERLY COOLED Y / N / NA

CUSTODY SEALS Y / N / NA SAMPLES INTACT Y / N / NA

RECEIVED IN GOOD COND. Y / N SAMPLES ACCEPTED Y

TURN AROUND TIME

NORMAL RUSH SAME DAY NEXT DAY 2 DAYS 3 DAYS

HARD COPY PDF GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY)

DATA DELIVERABLE REQUIRED

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



AMERICAN ENVIRONMENTAL TESTING LABORATORY
 2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181
 TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD
115875

AETL JOB No. **101368**

Page **3** of **3**

COMPANY **ATA Environmental** PROJECT MANAGER **Jonathan Barkman**
 COMPANY ADDRESS PHONE
3711 Long Beach Blvd, Annex Bldg, Long Beach, CA 90807
 PROJECT NAME PROJECT #
McLibin/Duarte Hwy RB AIR & Wipe Sampling SMSO-18-8201
 SITE NAME AND ADDRESS PO #
Malibu High School

ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
X	EPA 8082	X	7230 L
X	SOLVENT EXTRACTION	X	Field Blank
X		X	Duplicate of 0930-619-W3
X		X	Field Blank

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
0929-A	101368.21	9/29/19	1108	AIR	1	ICE
0930-B1	101368.22	9/30/19	0820	WIPE	1	ICE
0930-D1	101368.23	9/30/19	0841	WIPE	1	ICE
0930-Blank	101368.24	9/30/19	---	AIR	1	ICE

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: **4** 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

NORMAL RUSH SAME DAY NEXT DAY 2 DAYS 3 DAYS

HARD COPY PDF GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY)

DATA DELIVERABLE REQUIRED

RECEIVED BY: **1.** Signature: **D. Arredondo** Date: **10/1/19** Time: **0900**
 Printed Name: **DANE ARREDONDO**

RECEIVED BY: **2.** Signature: **[Signature]** Date: **10/1/19** Time: **1115**
 Printed Name: **[Name]**

RELINQUISHED BY: **1.** Signature: **[Signature]** Date: **10/1/19** Time: **0900**
 Printed Name: **[Name]**

RELINQUISHED BY: **2.** Signature: **[Signature]** Date: **10/1/19** Time: **1115**
 Printed Name: **[Name]**

RELINQUISHED BY: **3.** Signature: **[Signature]** Date: **10/1/19** Time: **1115**
 Printed Name: **[Name]**

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



AMERICAN ENVIRONMENTAL TESTING LABORATORY

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

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

COOLER RECEIPT FORM

Client Name: <u>Alta Enviromental</u>			
Project Name:			
AETL Job Number: <u>101368</u>			
Date Received: <u>10/01/19</u>		Received by: <u>Sergey</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>2</u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3.3°C</u> , No 2: <u>3.2°C</u> , No 3:			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input type="checkbox"/> MeOH			
<input type="checkbox"/> Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	N/A		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 90 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 90 DAYS.

Explain all "No" answers for above questions:



American Environmental Testing Laboratory Inc.

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

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

Page: 1 A

Ordered By

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 10/01/2019
Date Reported 10/11/2019

Job Number	Order Date	Client
101368	10/01/2019	ALTA

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 24 samples with the following specification on 10/01/2019.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
101368.16	0929-G506	09/29/2019	Gaseous	1
101368.17	0929-1t619	09/29/2019	Gaseous	1
101368.18	0929-703	09/29/2019	Gaseous	1
101368.19	0929-704	09/29/2019	Gaseous	1
101368.20	0929-705	09/29/2019	Gaseous	1
101368.21	0929-A	09/29/2019	Gaseous	1
101368.24	0930-Blank	09/30/2019	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-10A ^ PCB-NG/M3	10/08/2019	2	Normal	ng/m3

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
101368.01	0930-619-W1	09/30/2019	Solid	1
101368.02	0930-619-W2	09/30/2019	Solid	1
101368.03	0930-619-W3	09/30/2019	Solid	1
101368.04	0930-506-W1	09/30/2019	Solid	1
101368.05	0930-506-W2	09/30/2019	Solid	1
101368.06	0930-506-W3	09/30/2019	Solid	1
101368.07	0930-703-W1	09/30/2019	Solid	1
101368.08	0930-703-W2	09/30/2019	Solid	1
101368.09	0930-703-W3	09/30/2019	Solid	1
101368.10	0930-704-W1	09/30/2019	Solid	1
101368.11	0930-704-W2	09/30/2019	Solid	1
101368.12	0930-704-W3	09/30/2019	Solid	1
101368.13	0930-705-W1	09/30/2019	Solid	1
101368.14	0930-705-W2	09/30/2019	Solid	1

Continued



American Environmental Testing Laboratory Inc.

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

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

Page: 1 B

Ordered By

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

Project ID: SMSD-18-8201
Date Received 10/01/2019
Date Reported 10/11/2019

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

Job Number	Order Date	Client
101368	10/01/2019	ALTA

CERTIFICATE OF ANALYSIS CASE NARRATIVE

101368.15	0930-705-W3	09/30/2019	Solid	1	
101368.22	0930-Q1	09/30/2019	Solid	1	
101368.23	0930-D1	09/30/2019	Solid	1	
Method ^	Submethod	Req Date	Priority	TAT	Units
(8082) ^	WIPE-2	10/08/2019	2	Normal	ug/100cm2

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

Checked By: 

Approved By: 

Joe Sevrean
Laboratory Director



American Environmental Testing Laboratory Inc.

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

ANALYTICAL RESULTS

Ordered By

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

Site

Malibu High School

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 2

Project ID: SMSD-18-8201

Project Name: Malibu Quarterly PCB Air&Wipe

AETL Job Number	Submitted	Client
101368	10/01/2019	ALTA

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

QC Batch No: 100419ZB1

Our Lab I.D.		Method Blank	101368.16	101368.17	101368.18	101368.19
Client Sample I.D.			0929-G506	0929-1t619	0929-703	0929-704
Date Sampled			09/29/2019	09/29/2019	09/29/2019	09/29/2019
Date Prepared		10/04/2019	10/04/2019	10/04/2019	10/04/2019	10/04/2019
Preparation Method		TO10A	TO10A	TO10A	TO10A	TO10A
Date Analyzed		10/07/2019	10/07/2019	10/07/2019	10/07/2019	10/07/2019
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
Aroclor-1016 (PCB-1016)	14	14	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	28	28	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	14	14	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	14	14	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	14	14	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	14	14	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	14	14	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	14	14	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	14	14	ND	ND	ND	ND
Our Lab I.D.		Method Blank	101368.16	101368.17	101368.18	101368.19
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150	0.0	66.8	61.8	81.0	72.2
Tetrachloro-m-xylene	30-150	0.0	47.0	48.6	52.0	45.0



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

ANALYTICAL RESULTS

Ordered By

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

Site

Malibu High School

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 3

Project ID: SMSD-18-8201

Project Name: Malibu Quarterly PCB Air&Wipe

AETL Job Number	Submitted	Client
101368	10/01/2019	ALTA

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

QC Batch No: 100419ZB1

Our Lab I.D.			101368.20	101368.21	101368.24		
Client Sample I.D.			0929-705	0929-A	0930-Blank		
Date Sampled			09/29/2019	09/29/2019	09/30/2019		
Date Prepared			10/04/2019	10/04/2019	10/04/2019		
Preparation Method			TO10A	TO10A	TO10A		
Date Analyzed			10/07/2019	10/07/2019	10/07/2019		
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.			101368.20	101368.21	101368.24		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		67.8	61.4	95.2		
Tetrachloro-m-xylene	30-150		46.8	37.4	80.0		



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

ANALYTICAL RESULTS

Ordered By

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

Site

Malibu High School

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 4

Project ID: SMSD-18-8201

Project Name: Malibu Quarterly PCB Air&Wipe

AETL Job Number	Submitted	Client
101368	10/01/2019	ALTA

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

QC Batch No: 100319ZB1

Our Lab I.D.			Method Blank	101368.01	101368.02	101368.03	101368.04
Client Sample I.D.				0930-619-W1	0930-619-W2	0930-619-W3	0930-506-W1
Date Sampled				09/30/2019	09/30/2019	09/30/2019	09/30/2019
Date Prepared			10/03/2019	10/03/2019	10/03/2019	10/03/2019	10/03/2019
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			10/04/2019	10/04/2019	10/04/2019	10/04/2019	10/04/2019
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)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.10	0.10	ND	0.153	ND	ND	ND
Aroclor-1260 (PCB-1260)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.10	0.10	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	101368.01	101368.02	101368.03	101368.04
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		0.0	31.2	88.4	74.8	68.4
Tetrachloro-m-xylene	30-150		0.0	30.4	61.2	60.8	58.4



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

ANALYTICAL RESULTS

Ordered By

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

Site

Malibu High School

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 5

Project ID: SMSD-18-8201

Project Name: Malibu Quarterly PCB Air&Wipe

AETL Job Number	Submitted	Client
101368	10/01/2019	ALTA

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

QC Batch No: 100319ZB1

Our Lab I.D.			101368.05	101368.06	101368.07	101368.08	101368.09
Client Sample I.D.			0930-506-W2	0930-506-W3	0930-703-W1	0930-703-W2	0930-703-W3
Date Sampled			09/30/2019	09/30/2019	09/30/2019	09/30/2019	09/30/2019
Date Prepared			10/03/2019	10/03/2019	10/03/2019	10/03/2019	10/03/2019
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			10/04/2019	10/04/2019	10/04/2019	10/04/2019	10/04/2019
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)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.10	0.10	ND	ND	ND	ND	ND
Our Lab I.D.			101368.05	101368.06	101368.07	101368.08	101368.09
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		68.4	82.8	102	55.2	88.6
Tetrachloro-m-xylene	30-150		53.6	82.2	72.6	55.8	61.8



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

ANALYTICAL RESULTS

Ordered By

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

Site

Malibu High School

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 6

Project ID: SMSD-18-8201

Project Name: Malibu Quarterly PCB Air&Wipe

AETL Job Number	Submitted	Client
101368	10/01/2019	ALTA

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

QC Batch No: 100319ZB1

Our Lab I.D.			101368.10	101368.11	101368.12	101368.13	101368.14
Client Sample I.D.			0930-704-W1	0930-704-W2	0930-704-W3	0930-705-W1	0930-705-W2
Date Sampled			09/30/2019	09/30/2019	09/30/2019	09/30/2019	09/30/2019
Date Prepared			10/03/2019	10/03/2019	10/03/2019	10/03/2019	10/03/2019
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			10/04/2019	10/04/2019	10/04/2019	10/04/2019	10/04/2019
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)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.10	0.10	ND	0.554	0.311	ND	0.182
Aroclor-1260 (PCB-1260)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.10	0.10	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.10	0.10	ND	ND	ND	ND	ND
Our Lab I.D.			101368.10	101368.11	101368.12	101368.13	101368.14
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		79.8	80.6	88.4	65.2	56.8
Tetrachloro-m-xylene	30-150		57.0	70.0	48.8	51.8	43.8



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

ANALYTICAL RESULTS

Ordered By

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

Site

Malibu High School

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 7

Project ID: SMSD-18-8201

Project Name: Malibu Quarterly PCB Air&Wipe

AETL Job Number	Submitted	Client
101368	10/01/2019	ALTA

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

QC Batch No: 100319ZB1

Our Lab I.D.			101368.15	101368.22	101368.23		
Client Sample I.D.			0930-705-W3	0930-Q1	0930-D1		
Date Sampled			09/30/2019	09/30/2019	09/30/2019		
Date Prepared			10/03/2019	10/03/2019	10/03/2019		
Preparation Method			3540C	3540C	3540C		
Date Analyzed			10/04/2019	10/04/2019	10/04/2019		
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)	0.10	0.10	ND	ND	ND		
Aroclor-1221 (PCB-1221)	0.10	0.10	ND	ND	ND		
Aroclor-1232 (PCB-1232)	0.10	0.10	ND	ND	ND		
Aroclor-1242 (PCB-1242)	0.10	0.10	ND	ND	ND		
Aroclor-1248 (PCB-1248)	0.10	0.10	ND	ND	ND		
Aroclor-1254 (PCB-1254)	0.10	0.10	ND	ND	ND		
Aroclor-1260 (PCB-1260)	0.10	0.10	ND	ND	ND		
Aroclor-1262 (PCB-1262)	0.10	0.10	ND	ND	ND		
Aroclor-1268 (PCB-1268)	0.10	0.10	ND	ND	ND		
Our Lab I.D.			101368.15	101368.22	101368.23		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		83.6	73.8	86.2		
Tetrachloro-m-xylene	30-150		95.6	66.4	78.0		



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

QUALITY CONTROL RESULTS

Ordered By

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

Site

Malibu High School

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 8

Project ID: SMSD-18-8201

Project Name: Malibu Quarterly PCB Air&Wipe

AETL Job Number	Submitted	Client
101368	10/01/2019	ALTA

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

QC Batch No: 100419ZB1; LCS: Blank; LCS Prepared: 10/04/2019; LCS Analyzed: 10/07/2019; Units: ng/m3

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit					
Aroclor-1016 (PCB-1016)	68.7	72.4	5.2	40-140	<40					
Aroclor-1260 (PCB-1260)	99.6	94.1	5.7	40-140	<40					
Surrogates										
Decachlorobiphenyl	63.6	55.8	13.1	30-150	<30					
Tetrachloro-m-xylene	60.0	47.6	23.0	30-150	<30					



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

QUALITY CONTROL RESULTS

Ordered By

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

Site

Malibu High School

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 9

Project ID: SMSD-18-8201

Project Name: Malibu Quarterly PCB Air&Wipe

AETL Job Number	Submitted	Client
101368	10/01/2019	ALTA

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

QC Batch No: 100319ZB1; LCS: Blank; LCS Prepared: 10/03/2019; LCS Analyzed: 10/04/2019; 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)	500	291	58.2	500	316	63.2	8.2	50-150	<20
Aroclor-1260 (PCB-1260)	500	376	75.2	500	400	80.0	6.2	50-150	<20
Surrogates									
Decachlorobiphenyl	50.0	29.8	59.6	50.0	23.6	47.2	23.2	30-150	<20
Tetrachloro-m-xylene	50.0	20.1	40.2	50.0	18.5	37.0	8.3	30-150	<20



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

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.



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

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
