FIRST SEMI-ANNUAL 2020 PCB AIR & WIPE SAMPLING REPORT

Malibu High School
Buildings F, G, H, I 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-20-9426
Reported Date: May 14, 2020

Alta Environmental
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Long Beach CA 90807 United States of America
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EXECUTIVE SUMMARY

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

Concentrations of PCB Aroclor-1254 were only detected in air samples collected from select locations within Buildings J and G, ranging from 14.8 ng/m^3 to 85.0 ng/m^3. The reported concentrations are below the United States Environmental Protection Agency (USEPA) criteria for evaluating exposure levels in indoor air at school sites.

Concentrations of PCB Aroclor-1254 were only detected in wipe samples collected from select non-porous surfaces within Buildings J, I, G, H, and F ranging from 0.058J µg/cm^2 to 0.845 µg/cm^2. The reported concentrations are below the EPA Region IX health-based benchmark.

CONTENTS

1	PROJECT BACKGROUND	1
2	PURPOSE OF INSPECTION AND SAMPLING	1
3	SCOPE OF SERVICES	1
4	METHODOLOGY	1
4.1	Air Sampling	2
4.2	Wipe Sampling	2
5	RESULTS	2
5.1	Air Sampling	2
5.2	Wipe Sampling	3
6	QUALITY CONTROL	4
7	CONCLUSIONS	4
8	ASSUMPTIONS AND LIMITATIONS	5
9	SIGNATORY	5

Appendices

Appendix A: Figures

Appendix B: Sample Inventories

Appendix C: Laboratory Reports

REPORTED: May 14, 2020 **PROJECT NO.:** SMSD-20-9426

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

ATTENTION: Mr. Carey Upton

REF: First Semi-annual PCB Air and Wipe 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, an NV5 company, (Alta) 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 first semi-annual 2020 sampling event.

2 PURPOSE OF INSPECTION AND SAMPLING

The objective of the 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 18 air samples (including 3 ambient background samples) and a total of 48 wipe samples (including 3 duplicate samples).

4 METHODOLOGY

During this sampling event, Alta conducted air and wipe sampling within Malibu High School Building F (1 location), Building G (3 locations), Building H (1 location), Building I (2 locations) and Building J (8 locations). Figures depicting the sample locations are presented in Appendix A.

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

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.

5 RESULTS

5.1 Air Sampling

Based on the reported laboratory results, concentrations of PCBs were detected in the following air samples:

Sample Location	Sample Number	Total PCBs (ng/m^3)
Building G, Room 504	G-504	14.8
Building G, Room 505	G-505	21.2
Building G, Room 506	G-506	32.1
Building J, Room 703	J-703	24.6
Building J, Room 704	J-704	21.9
Building J, Room 705	J-705	35.2
Building J, Room 711	J-711	85.0
Building J, Room 712	J-712	32.1
Building J, Room 722	J-722	42.1
Building J, Room 723	J-723	30.2

Note: ng/m^3 = 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:

Age in Years Range	1 to <2	2 to <3	3 to <6	6 to <12	12 to <15	15 to <19	19 +
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 detected in the following wipe samples:

Sample Location	Sample Number	Total PCBs (µg/100 cm^2)
Building F, Room 303, Floor Tile	F-303-W1	ND
Building F, Room 303, Blue plastic chair	F-303-W2	0.090J
Building F, Room 303, 12” gray floor tile	F-303-W3	0.086J
Building F, Room 303, 12” gray floor tile (duplicate)	F-303-W4	0.099J
Building G, Room 504, Concrete flooring	G-504-W2	0.186
Building G, Room 505, Wood desk	G-505-W1	0.058J
Building G, Room 505, Wood flooring	G-505-W2	0.032J
Building G, Room 506, Wood table	G-506-W1	0.121
Building G, Room 506, Wood desk	G-506-W2	0.112
Building G, Room 506, Wood Flooring	G-506-W3	0.165
Building G, Room 506, Wood Flooring (duplicate)	G-506-W4	0.216
Building I, Room 401, Black countertop	I-401-W1	0.147
Building J, Room 703, Wood Desk	J-703-W3	0.087J
Building J, Room 704, 12” brown floor tile	J-704-W2	0.845
Building J, Room 705, Brick windowsill	J-705-W1	0.441
Building J, Room 705, 9” beige floor tile	J-705-W3	0.307
Building J, Room 711, Wood bench	J-711-W2	0.286

Sample Location	Sample Number	Total PCBs (µg/100 cm^2)
Building J, Room 711, Concrete floor	J-711-W3	0.297
Building J, Room 711, Concrete floor (duplicate)	J-711-W4	0.318
Building J, Room 712, Wood bench	J-712-W2	0.307
Building J, Room 712, Concrete flooring	J-712-W3	0.215
Building J, Room 722, laminate desk	J-722-W1	0.202
Building J, Room 722, 9" beige floor tile	J-722-W2	0.669
Building J, Room 723, Wood desk	J-723-W1	0.077J

Notes: 1) µg/100cm^2= micrograms per 100 square centimeters

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

The results of these samples are below the EPA Region IX health-based benchmark of 1µg/100cm^2.

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 ambient background samples and 3 duplicate samples during this investigation.

As mentioned above, AETL analyzed all air and wipe samples during this 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

Concentrations of PCB Aroclor-1254 were detected in the air samples collected from Buildings J and G, ranging from 14.8 ng/m^3 to 85.0 ng/m^3. 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 J, I, G, H, and F ranging from 0.058J µg/cm^2 to 0.845 µg/cm^2. The reported concentrations are below the EPA Region IX health-based benchmark of 1µg/100cm^2.

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

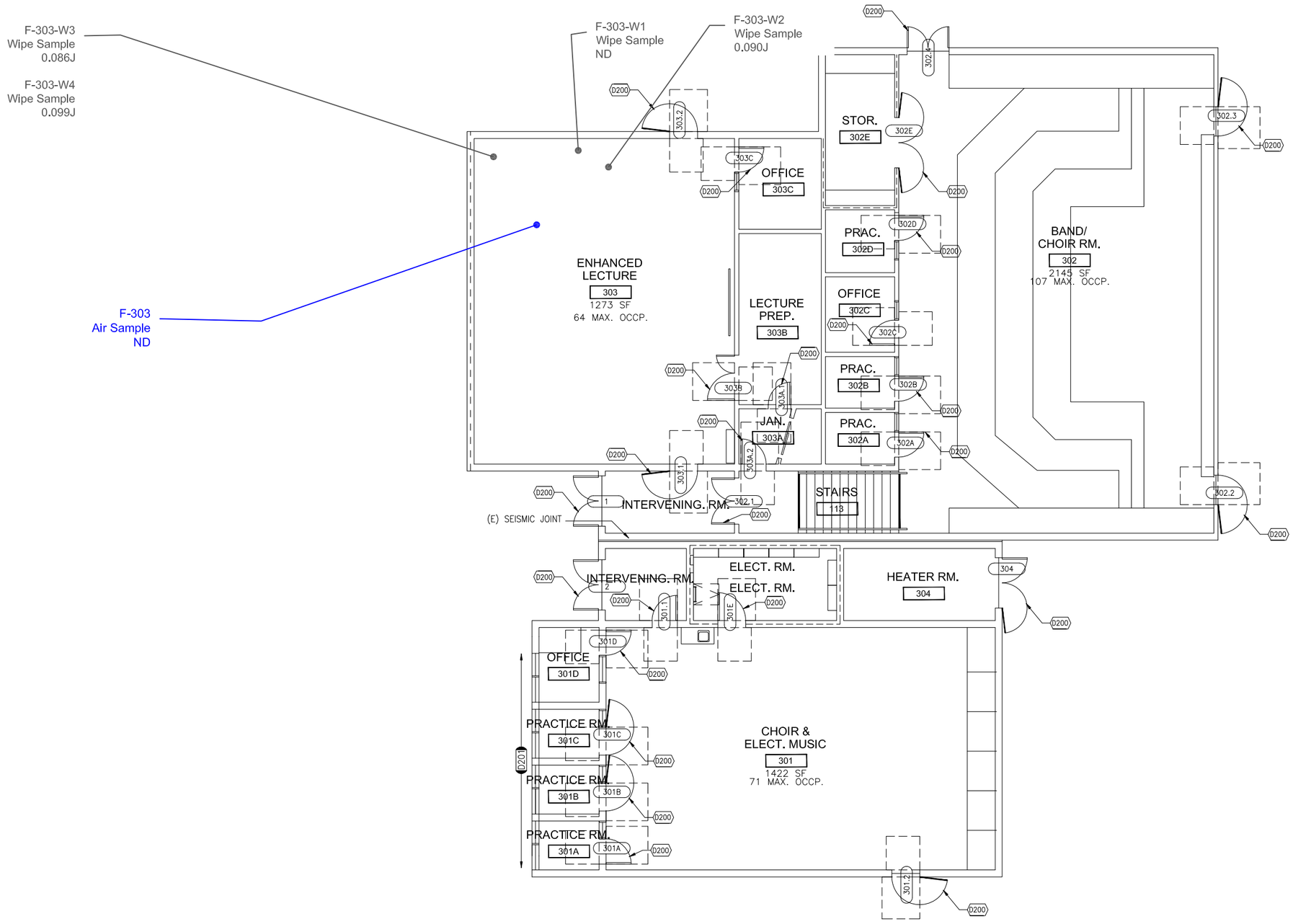
Jonathan Barkman
Project Manager

Reviewed:

Alta Environmental

Bryan Stone, P.E.
Vice President, Site Assessment and Remediation

Appendix A
Figures



Legend

- Air Sample (concentrations in ng/m^3)
- Wipe Sample (concentrations in ug/100cm^2)

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

Malibu High School
30215 Morning View Drive
Malibu, California

ALTA ENVIRONMENTAL
AN NV5 COMPANY
3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
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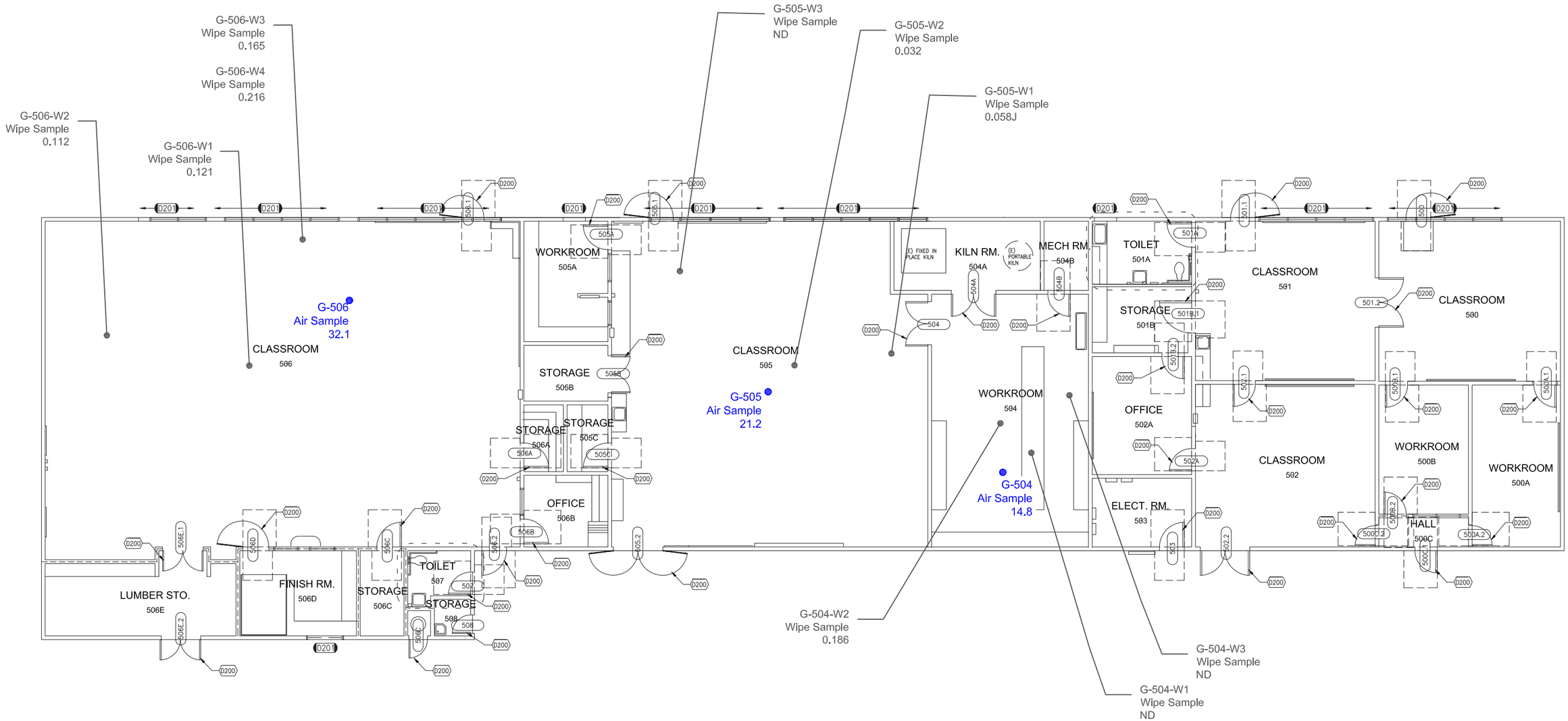
DATE: May 2020 | Project No.: SMSD-18-8201



Legend

- Air Sample (concentrations in ng/m^3)
- Wipe Sample (concentrations in ug/100cm^2)

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

Malibu High School
30215 Morning View Drive
Malibu, California

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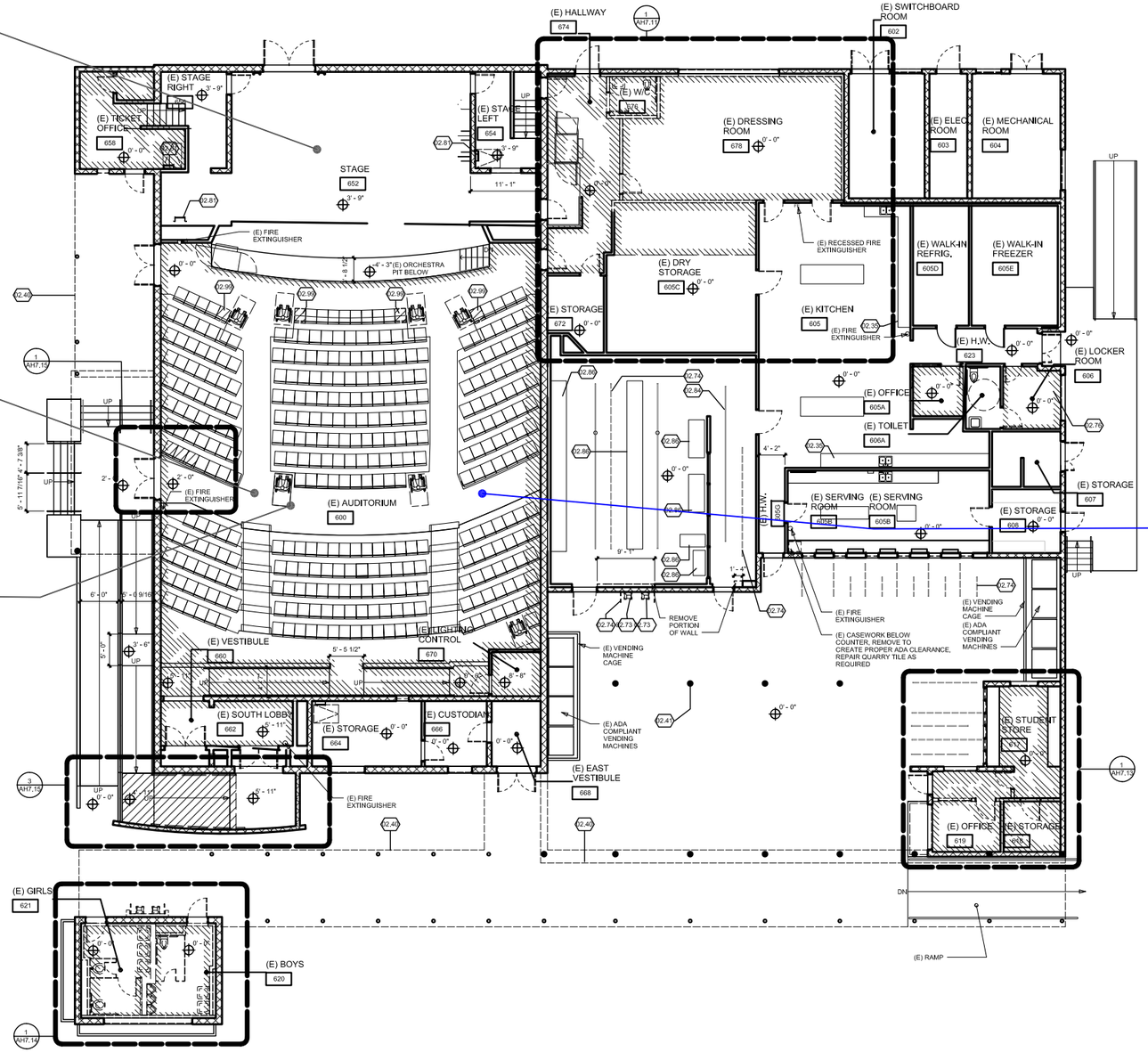
DATE: May 2020 | Project No.: SMSD-18-8201

H-600-W3
Wipe Sample
ND

H-600-W1
Wipe Sample
ND

H-600-W2
Wipe Sample
ND

H-600
Air Sample
ND



Legend

- Air Sample (concentrations in ng/m^3)
- Wipe Sample (concentrations in ug/100cm^2)

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

Malibu High School
30215 Morning View Drive
Malibu, California

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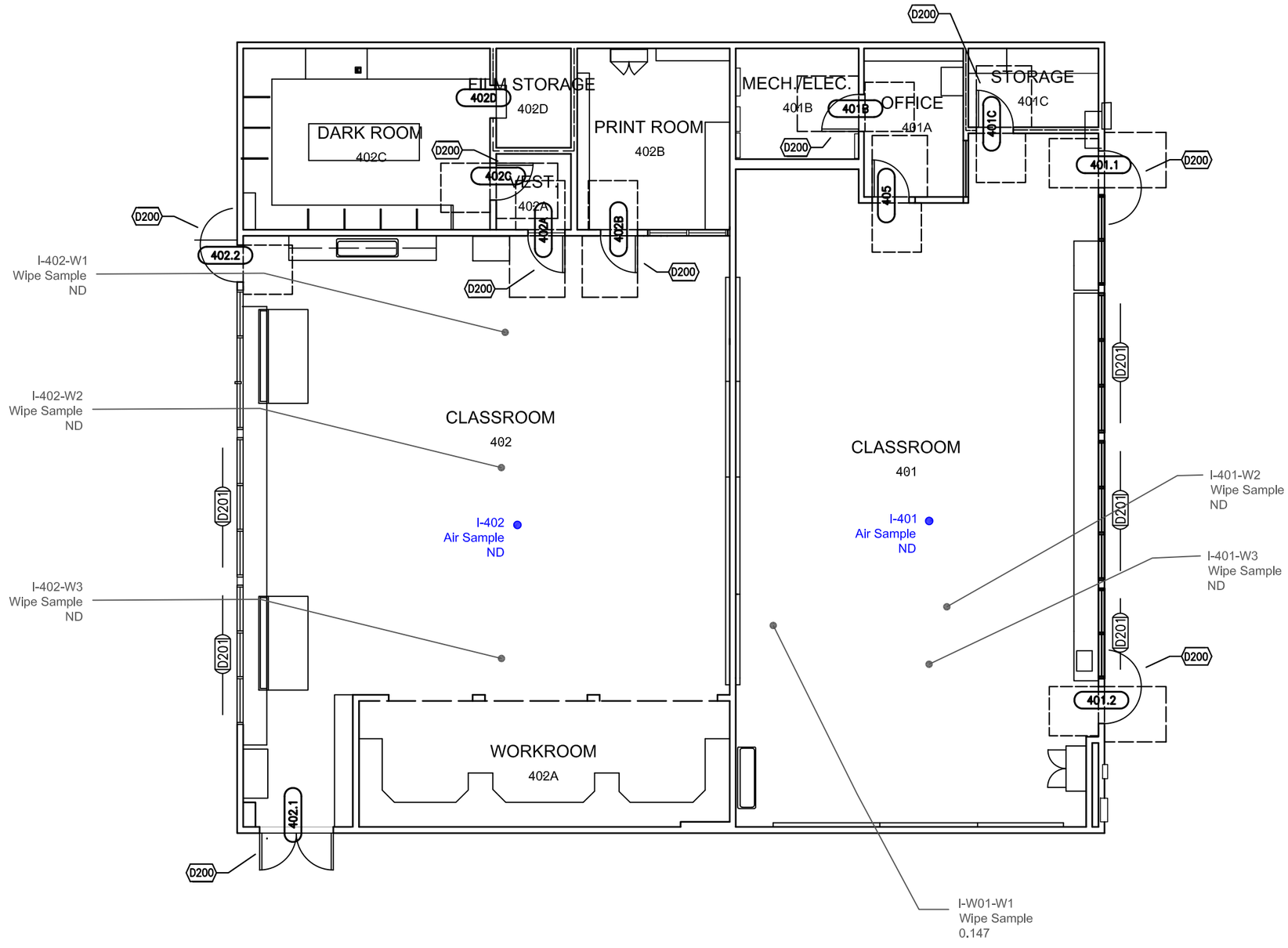
DATE: May 2020 | Project No.: SMSD-18-8201



Legend

- Air Sample (concentrations in ng/m^3)
- Wipe Sample (concentrations in ug/100cm^2)

Sample Location Map - Building I - First Semi-Annual 2020 Sampling

Malibu High School
30215 Morning View Drive
Malibu, California

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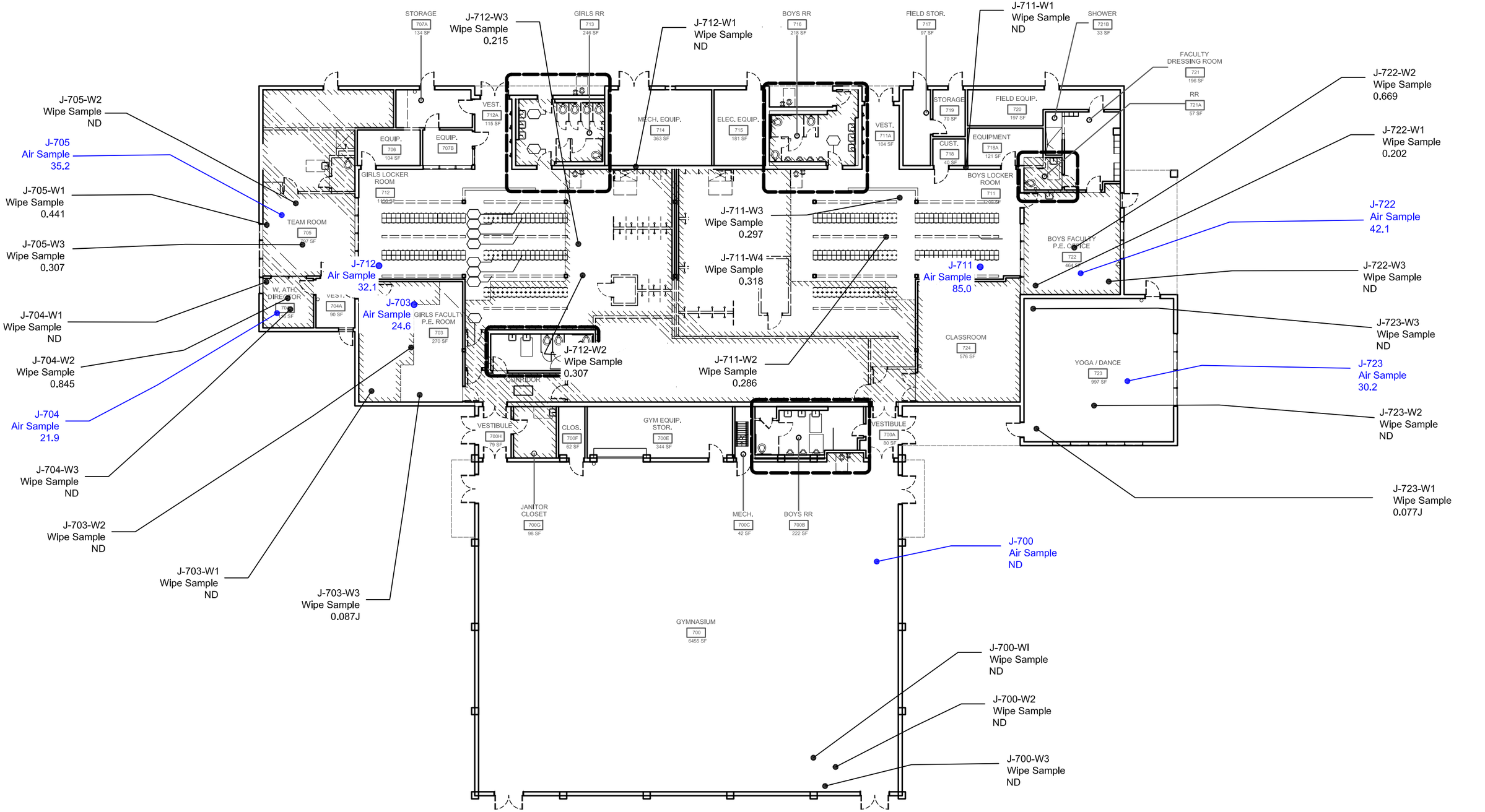
DATE: May 2020 | Project No.: SMSD-18-8201



Legend

- Air Sample (concentrations in ng/m^3)
- Wipe Sample (concentrations in ug/100cm^2)

Sample Location Map - Building J - First Semi-Annual 2020 Sampling

Malibu High School
30215 Morning View Drive
Malibu, California

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

Appendix B
Sample Inventories

Summary of Malibu High School Surface Wipe Sampling Results

CLIENT: SMMUSD
PROJECT NO: SMSD-20-9426
PROJECT: Malibu High School Sampling - 1st Semi-Annual 2020
Date: April 1 - 3, 2020

Building	Floor Plan ID	Component Description	Sampling Date	Sample ID	Total PCBs (µg/100cm^2)
F	303	Wood shelf	4/4/2020	F-303-W1	ND
		Blue plastic chair	4/4/2020	F-303-W2	0.090J
		12" gray floor tile	4/4/2020	F-303-W3	0.086J
		12" gray floor tile (duplicate)	4/4/2020	F-303-W4	0.099J
G	504	White laminate table	4/3/2020	G-504-W1	ND
		Concrete flooring	4/3/2020	G-504-W2	0.186
		Wooden bookshelf	4/3/2020	G-504-W3	ND
	505	Wood desk	4/3/2020	G-505-W1	0.058J
		Wood flooring	4/3/2020	G-505-W2	0.032
		Gray metal cabinet	4/3/2020	G-505-W3	ND
	506	Wood table	4/3/2020	G-506-W1	0.121
		Wood desk	4/3/2020	G-506-W2	0.112
		Wood flooring	4/3/2020	G-506-W3	0.165
		Wood flooring (duplicate)	4/3/2020	G-506-W4	0.216
H	600	Gray plastic desk	4/3/2020	H-600-W1	ND
		Concrete flooring	4/3/2020	H-600-W2	ND
		Black wooden stage	4/3/2020	H-600-W3	ND
I	401	Black countertop	4/3/2020	I-401-W1	0.147
		White laminate desk	4/3/2020	I-401-W2	ND
		12" gray floor tile	4/3/2020	I-401-W3	ND
	402	Wooden desk	4/3/2020	I-402-W1	ND
		12" gray floor tile	4/3/2020	I-402-W2	ND
		Black countertop	4/3/2020	I-402-W3	ND
J	700	Gray plastic bench	4/2/2020	J-700-W1	ND
		Wood stairs on bleachers	4/2/2020	J-700-W2	ND
		Wood flooring	4/2/2020	J-700-W3	ND
	703	Gray metal file cabinet	4/2/2020	J-703-W1	ND
		12" beige floor tile	4/2/2020	J-703-W2	ND
		Wood desk	4/2/2020	J-703-W3	0.087J
	704	Black laminate desk	4/2/2020	J-704-W1	ND
		12" brown floor tile	4/2/2020	J-704-W2	0.845
		Beige plaster shelf	4/2/2020	J-704-W3	ND
	705	Window sill brick	4/2/2020	J-705-W1	0.441
		Wood desk	4/2/2020	J-705-W2	ND
		9" beige floor tile	4/2/2020	J-705-W3	0.307
	711	Green window sill	4/2/2020	J-711-W1	ND
		Wood bench	4/2/2020	J-711-W2	0.286
		Concrete floor	4/2/2020	J-711-W3	0.297
		Concrete floor (duplicate)	4/2/2020	J-711-W4	0.318

Summary of Malibu High School Surface Wipe Sampling Results

Building	Floor Plan ID	Component Description	Sampling Date	Sample ID	Total PCBs (µg/100cm^2)
J	712	Green window sill	4/3/2020	J-712-W1	ND
		Wood bench	4/3/2020	J-712-W2	0.307
		Concrete flooring	4/3/2020	J-712-W3	0.215
	722	laminate desk	4/2/2020	J-722-W1	0.202
		9" beige floor tile	4/2/2020	J-722-W2	0.669
		Brown file cabinet	4/2/2020	J-722-W3	ND
	723	Wood desk	4/2/2020	J-723-W1	0.077J
		Wood flooring	4/2/2020	J-723-W2	ND
		Blue metal locker	4/2/2020	J-723-W3	ND

Notes:

µg/100cm^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 liimit, but below the laboratory's practical quantitative limit

Summary of Malibu High School Air Sampling Results

CLIENT: SMMUSD
PROJECT NO: SMSD-20-9426
PROJECT: Malibu High School Sampling - 1st Semi-Annual 2020
Date: April 1 - 3, 2020

Building	Room Placard ID	Room Description	Sampling Date[a]	Sample ID	Total PCBs (ng/m^3)
J	700	Gym	4/1/2020	J-700	ND
	703	Girl's F. PE	4/1/2020	J-703	24.6
	704	Athletic director's office	4/1/2020	J-704	21.9
	705	Team room	4/1/2020	J-705	35.2
	711	Boy's locker room	4/1/2020	J-711	85.0
	712	Girl's locker room	4/2/2020	J-712	32.1
	722	Boy's F. PE	4/1/2020	J-722	42.1
	723	Yoga/dance	4/1/2020	J-723	30.2
I	401	Art class	4/2/2020	I-401	ND
	402	Photography	4/2/2020	I-402	ND
G	504	Ceramics work room	4/2/2020	G-504	14.8
	505	Ceramics lab	4/2/2020	G-505	21.2
	506	Woodshop	4/2/2020	G-506	32.1
H	600	Auditorium	4/2/2020	H-600	ND
F	303	Orchestra	4/3/2020	F-303	ND
Ambient	N/A	N/A	4/1/2020	A-1	ND
Ambient	N/A	N/A	4/2/2020	A-2	ND
Ambient	N/A	N/A	4/3/2020	A-3	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/m^3 = 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

NV5
3777 Long Beach Boulevard Annex Building
Long Beach, CA 90807-

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

Number of Pages 12
Date Received 04/03/2020
Date Reported 04/14/2020

Job Number	Order Date	Client
104307	04/03/2020	NV5

Project ID: SMSD-20-9-126
Project Name: Malibu HS PCB Air & Wipe
Site: Malibu High School
Malibu, CA

Enclosed please find results of analyses of 22 solid and 8 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 Sevrean
Laboratory Director

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

CHAIN OF CUSTODY RECORD

120046

COMPANY: NVS
PROJECT MANAGER: Jonathan Barkman
COMPANY ADDRESS: 3777 Long Beach Blvd
PHONE:
EMAIL: Jonathan.Barkman@NV5.com
PROJECT NAME: Malibu HS PCB AIR & WIPE
PROJECT #: SMSD-20-9426
SITE NAME AND ADDRESS: Malibu HS
PO #:

AETL JOB No. 104307

Page 1 of 2

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: EPA 8082	ANALYSIS REQUESTED: Soxhlet Extraction	TEST INSTRUCTIONS & COMMENTS
1	J-700	104307-01	4/1/20	0924	AIR	1	ICE	X	X	7225L
2	J-703	104307-02	4/1/20	0930	AIR	1	ICE	X	X	7225L
3	J-704	104307-03	4/1/20	0933	AIR	1	ICE	X	X	7225L
4	J-705	104307-04	4/1/20	0935	AIR	1	ICE	X	X	7225L
5	J-722	104307-05	4/1/20	0940	AIR	1	ICE	X	X	7225L
6	J-723	104307-06	4/1/20	0944	AIR	1	ICE	X	X	7225L
7	J-711	104307-07	4/1/20	0948	AIR	1	ICE	X	X	7225L
8	A-1	104307-08	4/1/20	0955	AIR	1	ICE	X	X	7225L
9	J-700-W1	104307-09	4/2/20	1120	WIPE	1	ICE	X	X	7225L ambient
10	J-700-W2	104307-10	4/2/20	1124	WIPE	1	ICE	X	X	10cm²
11	J-700-W3	104307-11	4/2/20	1128	WIPE	1	ICE	X	X	10cm²
12	J-703-W1	104307-12	4/2/20	1135	WIPE	1	ICE	X	X	10cm²
13	J-703-W2	104307-13	4/2/20	1138	WIPE	1	ICE	X	X	10cm²
14	J-703-W3	104307-14	4/2/20	1142	WIPE	1	ICE	X	X	10cm²
15	J-704-W1	104307-15	4/2/20	1146	WIPE	1	ICE	X	X	10cm²

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

TURN AROUND TIME
- [x] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [ ] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

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

	1.	2.	3.
RELINQUISHED BY SAMPLER: / RELINQUISHED BY: / RELINQUISHED BY:	Signature:	Signature:	Signature:
	Printed Name: Jorge Rosales	Printed Name:	Printed Name:
	Date: 4/3/20 Time: 0909	Date: Time:	Date: 4/3/20 Time: 1145
RECEIVED BY: / RECEIVED BY: / RECEIVED BY LABORATORY:	Signature:	Signature:	Signature:
	Printed Name:	Printed Name:	Printed Name: Sergey
	Date: 4/3/20 Time: 0909	Date: Time:	Date: 04/03/20 Time: 1145

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
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A KYZER LABS COMPANY

CHAIN OF CUSTODY RECORD

120038

COMPANY: NVS
PROJECT MANAGER: Jonathan Berkman
COMPANY ADDRESS: 3777 Long Beach Blvd
PHONE:
EMAIL:
PROJECT NAME: Malibu HS PCB AIR & WIPE
PROJECT #: SMSD-20-9426
SITE NAME AND ADDRESS: Malibu HS.
PO #:

AETL JOB No. 104307

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: EPA 8082	ANALYSIS REQUESTED: Soxhlet Extraction	TEST INSTRUCTIONS & COMMENTS
1	J-704-W2	104307.16	4/2/20	1150	WIPE	1	ICE	X	X	10cm²
2	J-704-W3	104307.17	4/2/20	1153	WIPE	1	ICE	X	X	10cm²
3	J-705-W1	104307.18	4/2/20	1156	WIPE	1	ICE	X	X	10cm²
4	J-705-W2	104307.19	4/2/20	1159	WIPE	1	ICE	X	X	10cm²
5	J-705-W3	104307.20	4/2/20	1202	WIPE	1	ICE	X	X	10cm²
6	J-722-W1	104307.21	4/2/20	1208	WIPE	1	ICE	X	X	10cm²
7	J-722-W2	104307.22	4/2/20	1212	WIPE	1	ICE	X	X	10cm²
8	J-722-W3	104307.23	4/2/20	1215	WIPE	1	ICE	X	X	10cm²
9	J-723-W1	104307.24	4/2/20	1220	WIPE	1	ICE	X	X	10cm²
10	J-723-W2	104307.25	4/2/20	1225	WIPE	1	ICE	X	X	10cm²
11	J-723-W3	104307.26	4/2/20	1228	WIPE	1	ICE	X	X	10cm²
12	J-711-W1	104307.27	4/2/20	1235	WIPE	1	ICE	X	X	10cm²
13	J-711-W2	104307.28	4/2/20	1238	WIPE	1	ICE	X	X	10cm²
14	J-711-W3	104307.29	4/2/20	1242	WIPE	1	ICE	X	X	10cm²
15	J-711-W4	104307.30	4/2/20	1245	WIPE	1	ICE	X	X	10cm² Duplicate

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Jorge Robles	Printed Name:	Printed Name:
Date: 4/3/20 Time: 0909	Date: Time:	Date: 4/3/20 Time: 1145
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: CAPTAIN PAGUIO	Printed Name:	Printed Name: Sergey
Date: 4/3/20 Time: 0909	Date: Time:	Date: 04/03/20 Time: 1145

TURN AROUND TIME

- [x] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [ ] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED

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

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

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A KYZER LABS COMPANY

COOLER RECEIPT FORM

Client Name: NVS

Project Name:

AETL Job Number: 104307

Date Received: 04/03/20 Received by: Sergey

Carrier: ☑ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☑ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.3°C, 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, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ 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?	N/A		
11. Are the jars free of headspace?	N/A		

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

Explain all "No" answers for above questions:

_____

_____

_____

_____

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Ordered By

NV5
3777 Long Beach Boulevard Annex Building
Long Beach, CA 90807-

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

Project ID: SMSD-20-9-126
Date Received 04/03/2020
Date Reported 04/14/2020

Job Number	Order Date	Client
104307	04/03/2020	NV5

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 30 samples with the following specification on 04/03/2020.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
104307.01	J-700	04/01/2020	Gaseous	1
104307.02	J-703	04/01/2020	Gaseous	1
104307.03	J-704	04/01/2020	Gaseous	1
104307.04	J-705	04/01/2020	Gaseous	1
104307.05	J-722	04/01/2020	Gaseous	1
104307.06	J-723	04/01/2020	Gaseous	1
104307.07	J-711	04/01/2020	Gaseous	1
104307.08	A-1	04/01/2020	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-10A ^ PCB-NG/M3	04/10/2020	2	Normal	ng/m3

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
104307.09	J-700-W1	04/02/2020	Solid	1
104307.10	J-700-W2	04/02/2020	Solid	1
104307.11	J-700-W3	04/02/2020	Solid	1
104307.12	J-703-W1	04/02/2020	Solid	1
104307.13	J-703-W2	04/02/2020	Solid	1
104307.14	J-703-W3	04/02/2020	Solid	1
104307.15	J-704-W1	04/02/2020	Solid	1
104307.16	J-704-W2	04/02/2020	Solid	1
104307.17	J-704-W3	04/02/2020	Solid	1
104307.18	J-705-W1	04/02/2020	Solid	1
104307.19	J-705-W2	04/02/2020	Solid	1
104307.20	J-705-W3	04/02/2020	Solid	1
104307.21	J-722-W1	04/02/2020	Solid	1

Continued

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

Project ID: SMSD-20-9-126
Date Received 04/03/2020
Date Reported 04/14/2020

Job Number	Order Date	Client
104307	04/03/2020	NV5

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

104307.22	J-722-W2	04/02/2020	Solid	1
104307.23	J-722-W3	04/02/2020	Solid	1
104307.24	J-723-W1	04/02/2020	Solid	1
104307.25	J-723-W2	04/02/2020	Solid	1
104307.26	J-723-W3	04/02/2020	Solid	1
104307.27	J-711-W1	04/02/2020	Solid	1
104307.28	J-711-W2	04/02/2020	Solid	1
104307.29	J-711-W3	04/02/2020	Solid	1
104307.30	J-711-W4	04/02/2020	Solid	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(8082) ^ WIPE-2	04/10/2020	2	Normal	ug/100cm2

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

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

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

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Site

Malibu High School
Malibu, CA

Project ID: SMSD-20-9-126
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104307	04/03/2020	NV5

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

QC Batch No: 040720ZB1

Our Lab I.D.			Method Blank	104307.01	104307.02	104307.03	104307.04
Client Sample I.D.				J-700	J-703	J-704	J-705
Date Sampled				04/01/2020	04/01/2020	04/01/2020	04/01/2020
Date Prepared			04/07/2020	04/07/2020	04/07/2020	04/07/2020	04/07/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			04/08/2020	04/08/2020	04/08/2020	04/08/2020	04/08/2020
Matrix			Gaseous	Gaseous	Gaseous	Gaseous	Gaseous
Units			ng/m3	ng/m3	ng/m3	ng/m3	ng/m3
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	14	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	24.6	21.9	35.2
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	104307.01	104307.02	104307.03	104307.04
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		60.4	55.0	49.2	57.2	56.6
Tetrachloro-m-xylene	30-150		87.4	81.2	85.2	84.4	68.0

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Page: 3

Site

Malibu High School
Malibu, CA

Project ID: SMSD-20-9-126
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104307	04/03/2020	NV5

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

QC Batch No: 040720ZB1

Our Lab I.D.			104307.05	104307.06	104307.07	104307.08	
Client Sample I.D.			J-722	J-723	J-711	A-1	
Date Sampled			04/01/2020	04/01/2020	04/01/2020	04/01/2020	
Date Prepared			04/07/2020	04/07/2020	04/07/2020	04/07/2020	
Preparation Method			3540C	3540C	3540C	3540C	
Date Analyzed			04/08/2020	04/08/2020	04/08/2020	04/08/2020	
Matrix			Gaseous	Gaseous	Gaseous	Gaseous	
Units			ng/m3	ng/m3	ng/m3	ng/m3	
Dilution Factor			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	42.1	30.2	85.0	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.			104307.05	104307.06	104307.07	104307.08	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Decachlorobiphenyl	30-150		51.2	52.4	48.4	50.8	
Tetrachloro-m-xylene	30-150		86.4	88.6	93.6	83.2	

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Site

Malibu High School
Malibu, CA

Project ID: SMSD-20-9-126
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104307	04/03/2020	NV5

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

QC Batch No: 040820ZB1

Our Lab I.D.			Method Blank	104307.09	104307.10	104307.11	104307.12
Client Sample I.D.				J-700-W1	J-700-W2	J-700-W3	J-703-W1
Date Sampled				04/02/2020	04/02/2020	04/02/2020	04/02/2020
Date Prepared			04/08/2020	04/08/2020	04/08/2020	04/08/2020	04/08/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			04/09/2020	04/09/2020	04/09/2020	04/09/2020	04/09/2020
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	104307.09	104307.10	104307.11	104307.12
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		39.8	53.4	61.2	56.6	68.6
Tetrachloro-m-xylene	30-150		57.0	82.0	80.6	76.0	75.8

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Site

Malibu High School
Malibu, CA

Page: **5**

Project ID: SMSD-20-9-126
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104307	04/03/2020	NV5

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

QC Batch No: 040820ZB1

Our Lab I.D.			**104307.13**	**104307.14**	**104307.15**	**104307.16**	**104307.17**
Client Sample I.D.			J-703-W2	J-703-W3	J-704-W1	J-704-W2	J-704-W3
Date Sampled			04/02/2020	04/02/2020	04/02/2020	04/02/2020	04/02/2020
Date Prepared			04/08/2020	04/08/2020	04/08/2020	04/08/2020	04/08/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			04/09/2020	04/09/2020	04/09/2020	04/09/2020	04/09/2020
Matrix			Solid	Solid	Solid	Solid	Solid
Units			ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	0.087J	ND	0.845	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.			**104307.13**	**104307.14**	**104307.15**	**104307.16**	**104307.17**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		49.6	62.4	70.0	64.6	43.8
Tetrachloro-m-xylene	30-150		76.4	74.2	62.0	79.4	71.4

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Page: 6

Site

Malibu High School
Malibu, CA

Project ID: SMSD-20-9-126
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104307	04/03/2020	NV5

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

QC Batch No: 040820ZB1

Our Lab I.D.			104307.18	104307.19	104307.20	104307.21	104307.22
Client Sample I.D.			J-705-W1	J-705-W2	J-705-W3	J-722-W1	J-722-W2
Date Sampled			04/02/2020	04/02/2020	04/02/2020	04/02/2020	04/02/2020
Date Prepared			04/08/2020	04/08/2020	04/08/2020	04/08/2020	04/08/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			04/09/2020	04/09/2020	04/09/2020	04/09/2020	04/09/2020
Matrix			Solid	Solid	Solid	Solid	Solid
Units			ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	0.441	ND	0.307	0.202	0.669
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.			104307.18	104307.19	104307.20	104307.21	104307.22
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		57.8	51.4	49.0	43.4	56.2
Tetrachloro-m-xylene	30-150		60.8	72.6	72.2	74.8	77.0

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Page: **7**

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Malibu High School
Malibu, CA

Project ID: SMSD-20-9-126
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104307	04/03/2020	NV5

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

QC Batch No: 040820ZB1

Our Lab I.D.			104307.23	104307.24	104307.25	104307.26	104307.27
Client Sample I.D.			J-722-W3	J-723-W1	J-723-W2	J-723-W3	J-711-W1
Date Sampled			04/02/2020	04/02/2020	04/02/2020	04/02/2020	04/02/2020
Date Prepared			04/08/2020	04/08/2020	04/08/2020	04/08/2020	04/08/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			04/09/2020	04/09/2020	04/09/2020	04/09/2020	04/09/2020
Matrix			Solid	Solid	Solid	Solid	Solid
Units			ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	0.077J	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.			**104307.23**	**104307.24**	**104307.25**	**104307.26**	**104307.27**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		54.0	91.6	50.6	40.8	49.6
Tetrachloro-m-xylene	30-150		64.6	78.8	70.4	62.2	69.6

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ANALYTICAL RESULTS

Ordered By

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Attn: Jonathan Barkman
Page: 8

Site

Malibu High School
Malibu, CA

Project ID: SMSD-20-9-126
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104307	04/03/2020	NV5

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

QC Batch No: 040820ZB1

Our Lab I.D.			104307.28				
Client Sample I.D.			J-711-W2				
Date Sampled			04/02/2020				
Date Prepared			04/08/2020				
Preparation Method			3540C				
Date Analyzed			04/09/2020				
Matrix			Solid				
Units			ug/100cm2				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	0.05	0.10	ND				
Aroclor-1221 (PCB-1221)	0.05	0.10	ND				
Aroclor-1232 (PCB-1232)	0.05	0.10	ND				
Aroclor-1242 (PCB-1242)	0.05	0.10	ND				
Aroclor-1248 (PCB-1248)	0.05	0.10	ND				
Aroclor-1254 (PCB-1254)	0.05	0.10	0.286				
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.			104307.28				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		44.0				
Tetrachloro-m-xylene	30-150		70.4				

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Malibu High School
Malibu, CA

Project ID: SMSD-20-9-126
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104307	04/03/2020	NV5

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

QC Batch No: 040920ZB1

Our Lab I.D.			Method Blank	**104307.29**	**104307.30**		
Client Sample I.D.				J-711-W3	J-711-W4		
Date Sampled				04/02/2020	04/02/2020		
Date Prepared			04/09/2020	04/09/2020	04/09/2020		
Preparation Method			3540C	3540C	3540C		
Date Analyzed			04/10/2020	04/10/2020	04/10/2020		
Matrix			Solid	Solid	Solid		
Units			ug/100cm2	ug/100cm2	ug/100cm2		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND		
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND		
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND		
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND		
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND		
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	0.297	0.318		
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	**104307.29**	**104307.30**		
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**		
Decachlorobiphenyl	30-150		33.4	64.8	44.2		
Tetrachloro-m-xylene	30-150		77.2	60.2	70.6		

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QUALITY CONTROL RESULTS

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Malibu High School
Malibu, CA

Project ID: SMSD-20-9-126
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104307	04/03/2020	NV5

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

QC Batch No: 040720ZB1; LCS: Blank; LCS Prepared: 04/07/2020; LCS Analyzed: 04/08/2020; 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	515	103	500	500	100	3.0	40-140	<40	
Aroclor-1260 (PCB-1260)	500	366	73.2	500	346	69.2	5.6	40-140	<40	
Surrogates										
Decachlorobiphenyl	50.0	36.7	73.4	50.0	32.1	64.2	13.4	30-150	<30	
Tetrachloro-m-xylene	50.0	40.2	80.4	50.0	39.3	78.6	2.3	30-150	<30	

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Malibu High School
Malibu, CA

Page: **11**

Project ID: SMSD-20-9-126
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104307	04/03/2020	NV5

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

QC Batch No: 040820ZB1; LCS: Blank; LCS Prepared: 04/08/2020; LCS Analyzed: 04/09/2020; Units: ug/100cm2

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	480	96.0	500	584	117	19.7	50-150	<20	
Aroclor-1260 (PCB-1260)	500	332	66.4	500	405	81.0	19.8	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	32.2	64.4	50.0	36.4	72.8	12.2	30-150	<20	
Tetrachloro-m-xylene	50.0	33.4	66.8	50.0	45.2	90.4	30.0	30-150	<20	

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Malibu High School
Malibu, CA

Page: **12**

Project ID: SMSD-20-9-126
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104307	04/03/2020	NV5

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

QC Batch No: 040920ZB1; LCS: Blank; LCS Prepared: 04/09/2020; LCS Analyzed: 04/10/2020; Units: ug/100cm2

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	449	89.8	500	531	106	16.5	50-150	<20	
Aroclor-1260 (PCB-1260)	500	417	83.4	500	421	84.2	<1	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	27.5	55.0	50.0	26.9	53.8	2.18	30-150	<20	
Tetrachloro-m-xylene	50.0	51.8	104	50.0	44.6	89.2	14.2	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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Number of Pages 5
Date Received 04/06/2020
Date Reported 04/14/2020

Job Number	Order Date	Client
104322	04/06/2020	NV5

Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe
Site: Malibu High School
Malibu, CA

Enclosed please find results of analyses of 4 solid and 2 gaseous samplew which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

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CHAIN OF CUSTODY RECORD

AETL JOB No. 104322 120158

Page 1 of 1

COMPANY: NV5	PROJECT MANAGER: Jonathan Barkman
COMPANY ADDRESS: 3777 Long Beach Blvd	PHONE / EMAIL: jonathan.barkman@nv5.com
PROJECT NAME: Malibu HS PCB AIR & WIPE	PROJECT #: SMSD-20-9426
SITE NAME AND ADDRESS: Malibu HS	PO #

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: EPA 8082	ANALYSIS REQUESTED: Soxhlet Extraction	TEST INSTRUCTIONS & COMMENTS
1	F-303	104322.01	4/3/20	1005	AIR	1	ICE	X	X	7225L
2	A-3	104322.02	4/3/20	1020	AIR	1	ICE	X	X	7225L ambient
3	F-303-W1	104322.03	4/4/20	1030	WIPE	1	ICE	X	X	10cm²
4	F-303-W2	104322.04	4/4/20	1034	WIPE	1	ICE	X	X	10cm²
5	F-303-W3	104322.05	4/4/20	1036	WIPE	1	ICE	X	X	10cm²
6	F-303-W4	104322.06	4/4/20	1039	WIPE	1	ICE	X	X	10cm² duplicate
7										
8										
9										
10										
11										
12										
13										
14										
15										

TOTAL NUMBER OF CONTAINERS: 6

BILLING INFORMATION / SPECIAL INSTRUCTIONS

TURN AROUND TIME

- [x] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [ ] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY:	SAMPLER:		
Signature:			
Printed Name:	Jorge Robles		
Date / Time:	4/4/20 13:45		4-6-20 1305
RECEIVED BY:			LABORATORY: AETL
Signature:			
Printed Name:			
Date / Time:	4-6-20 0925		4/6/20 1305

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

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COOLER RECEIPT FORM

Client Name: NVS
Project Name:
AETL Job Number: 104322
Date Received: 04/06/20 Received by: Ant
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (/) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.4°C, 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, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ 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?	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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Telephone: (562)495-5777
Attention: Jonathan Barkman

Project ID: SMSD-20-9426
Date Received 04/06/2020
Date Reported 04/14/2020

Job Number	Order Date	Client
104322	04/06/2020	NV5

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 6 samples with the following specification on 04/06/2020.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
104322.01	F-303	04/03/2020	Gaseous	1
104322.02	A-3	04/03/2020	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-10A ^ PCB-NG/M3	04/13/2020	2	Normal	ng/m3

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
104322.03	F-303-W1	04/04/2020	Solid	1
104322.04	F-303-W2	04/04/2020	Solid	1
104322.05	F-303-W3	04/04/2020	Solid	1
104322.06	F-303-W4	04/04/2020	Solid	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082) ^ WIPE-2	04/13/2020	2	Normal	ug/100cm2

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

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

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

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Site

Malibu High School
Malibu, CA

Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104322	04/06/2020	NV5

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

QC Batch No: 040720ZB1

Our Lab I.D.			Method Blank	**104322.01**	**104322.02**		
Client Sample I.D.				F-303	A-3		
Date Sampled				04/03/2020	04/03/2020		
Date Prepared			04/07/2020	04/07/2020	04/07/2020		
Preparation Method			3540C	3540C	3540C		
Date Analyzed			04/08/2020	04/09/2020	04/09/2020		
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	**104322.01**	**104322.02**		
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**		
Decachlorobiphenyl	30-150		60.4	43.2	55.4		
Tetrachloro-m-xylene	30-150		87.4	70.8	98.4		

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Malibu High School
Malibu, CA

Page: **3**

Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104322	04/06/2020	NV5

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

QC Batch No: 041020ZB1

Our Lab I.D.			Method Blank	104322.03	104322.04	104322.05	104322.06
Client Sample I.D.				F-303-W1	F-303-W2	F-303-W3	F-303-W4
Date Sampled				04/04/2020	04/04/2020	04/04/2020	04/04/2020
Date Prepared			04/10/2020	04/10/2020	04/10/2020	04/10/2020	04/10/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			04/13/2020	04/13/2020	04/13/2020	04/13/2020	04/13/2020
Matrix			Solid	Solid	Solid	Solid	Solid
Units			ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	ND	0.090J	0.086J	0.099J
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	104322.03	104322.04	104322.05	104322.06
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		30.8	43.4	39.4	30.0	69.4
Tetrachloro-m-xylene	30-150		48.0	94.0	47.2	55.6	57.6

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QUALITY CONTROL RESULTS

Ordered By

NV5
3777 Long Beach Boulevard
Annex Building
Long Beach, CA 90807-

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

Site

Malibu High School
Malibu, CA

Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104322	04/06/2020	NV5

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

QC Batch No: 040720ZB1; LCS: Blank; LCS Prepared: 04/07/2020; LCS Analyzed: 04/08/2020; 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	515	103	500	500	100	3.0	40-140	<40	
Aroclor-1260 (PCB-1260)	500	366	73.2	500	346	69.2	5.6	40-140	<40	
Surrogates										
Decachlorobiphenyl	50.0	36.7	73.4	50.0	32.1	64.2	13.4	30-150	<30	
Tetrachloro-m-xylene	50.0	40.2	80.4	50.0	39.3	78.6	2.3	30-150	<30	

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Site

Malibu High School
Malibu, CA

Page: **5**

Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104322	04/06/2020	NV5

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

QC Batch No: 041020ZB1; LCS: Blank; LCS Prepared: 04/10/2020; LCS Analyzed: 04/13/2020; Units: ug/100cm2

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	528	106	500	465	93.0	13.1	50-150	<20	
Aroclor-1260 (PCB-1260)	500	431	86.2	500	423	84.6	1.9	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	23.1	46.2	50.0	23.1	46.2	<1	30-150	<20	
Tetrachloro-m-xylene	50.0	45.0	90.0	50.0	41.5	83.0	8.1	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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Number of Pages 11
Date Received 04/03/2020
Date Reported 04/14/2020

Job Number	Order Date	Client
104313	04/03/2020	NV5

Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe
Site: Malibu High School
Malibu, CA

Enclosed please find results of analyses of 22 solid and 8 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 Sevrean
Laboratory Director

AMERICAN ENVIRONMENTAL TESTING LABORATORY
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CHAIN OF CUSTODY RECORD

120044

AETL JOB No. 104313

COMPANY: NV5
PROJECT MANAGER: Jonathan Barkman
COMPANY ADDRESS: 3777 Long Beach Blvd
PHONE:
EMAIL: jonathan.barkman@NV5.com
PROJECT NAME: Malibu HS PCB AIR & WIPE
PROJECT #: SMSD-20-9426
SITE NAME AND ADDRESS: Malibu HS
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: EPA 8082	ANALYSIS REQUESTED: Soxhlet Extraction	TEST INSTRUCTIONS & COMMENTS
1	J-712	104313.01	4/2/20	1033	AIR	1	ICE	X	X	7225L
2	I-401	104313.02	4/2/20	1040	AIR	1	ICE	X	X	7225L
3	I-402	104313.03	4/2/20	1044	AIR	1	ICE	X	X	7225L
4	G-504	104313.04	4/2/20	1050	AIR	1	ICE	X	X	7225L
5	G-505	104313.05	4/2/20	1053	AIR	1	ICE	X	X	7225L
6	G-506	104313.06	4/2/20	1058	AIR	1	ICE	X	X	7225L
7	H-600	104313.07	4/2/20	1110	AIR	1	ICE	X	X	7225L
8	A-2	104313.08	4/2/20	1025	AIR	1	ICE	X	X	7225L ambient
9	J-712-W1	104313.09	4/3/20	1125	WIPE	1	ICE	X	X	10cm²
10	J-712-W2	104313.10	4/3/20	1127	WIPE	1	ICE	X	X	10cm²
11	J-712-W3	104313.11	4/3/20	1130	WIPE	1	ICE	X	X	10cm²
12	I-401-W1	104313.12	4/3/20	1138	WIPE	1	ICE	X	X	10cm²
13	I-401-W2	104313.13	4/3/20	1142	WIPE	1	ICE	X	X	10cm²
14	I-401-W3	104313.14	4/3/20	1145	WIPE	1	ICE	X	X	10cm²
15	I-402-W1	104313.15	4/3/20	1155	WIPE	1	ICE	X	X	10cm²

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Jorge Robles	Printed Name:	Printed Name:
Date: 4/3/20 Time: 1300	Date: Time:	Date: 4.3.20 Time: 1645
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Sergey
Date: 4.3.20 Time: 1307	Date: Time:	Date: 04/03/20 Time: 1440

TURN AROUND TIME

- [x] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [ ] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED

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

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

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CHAIN OF CUSTODY RECORD

120037

AETL JOB No. 104313

COMPANY: NVS
PROJECT MANAGER: Jonathan Barkman
COMPANY ADDRESS: 3777 Long Beach Blvd
PHONE:
EMAIL: jonathan.barkman@NVS.com
PROJECT NAME: Malibu HS PCB AIR & WIPE
PROJECT #: SMSD-20-9426
SITE NAME AND ADDRESS: Malibu HS
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: EPA 8082	ANALYSIS REQUESTED: Soxhlet Extraction	TEST INSTRUCTIONS & COMMENTS
1	I-402-W2	104313.16	4/3/20	1158	WIPE	1	ICE	X	X	10cm²
2	I-402-W3	104313.17	4/3/20	1200	WIPE	1	ICE	X	X	10cm²
3	G-504-W1	104313.18	4/3/20	1205	WIPE	1	ICE	X	X	10cm²
4	G-504-W2	104313.19	4/3/20	1208	WIPE	1	ICE	X	X	10cm²
5	G-504-W3	104313.20	4/3/20	1211	WIPE	1	ICE	X	X	10cm²
6	G-505-W1	104313.21	4/3/20	1214	WIPE	1	ICE	X	X	10cm²
7	G-505-W2	104313.22	4/3/20	1217	WIPE	1	ICE	X	X	10cm²
8	G-505-W3	104313.23	4/3/20	1220	WIPE	1	ICE	X	X	10cm²
9	G-506-W1	104313.24	4/3/20	1225	WIPE	1	ICE	X	X	10cm²
10	G-506-W2	104313.25	4/3/20	1228	WIPE	1	ICE	X	X	10cm²
11	G-506-W3	104313.26	4/3/20	1230	WIPE	1	ICE	X	X	10cm²
12	G-506-W4	104313.27	4/3/20	1232	WIPE	1	ICE	X	X	10cm² Duplicate
13	H-600-W1	104313.28	4/3/20	1240	WIPE	1	ICE	X	X	10cm²
14	H-600-W2	104313.29	4/3/20	1243	WIPE	1	ICE	X	X	10cm²
15	H-600-W3	104313.30	4/3/20	1246	WIPE	1	ICE	X	X	10cm²

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Jorge Robles	Printed Name:	Printed Name: Carlos Garcia
Date: 4/3/20 Time: 1306	Date: Time:	Date: 4/3/20 Time: 14:45
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name: Carlos Garcia	Printed Name:	Printed Name: Sergey
Date: 4.3.20 Time: 13:07	Date: Time:	Date: 04/03/20 Time: 1445

TURN AROUND TIME

- [x] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [ ] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED

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

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COOLER RECEIPT FORM

Client Name: NVS

Project Name:

AETL Job Number: 104313

Date Received: 04/03/20 Received by: Sergey

Carrier: ☑ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☑ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.5 - 5, 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, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ 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?	N/A		
11. Are the jars free of headspace?	N/A		

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

Explain all "No" answers for above questions:

_____

_____

_____

_____

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Long Beach, CA 90807-

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

Project ID: SMSD-20-9426
Date Received 04/03/2020
Date Reported 04/14/2020

Job Number	Order Date	Client
104313	04/03/2020	NV5

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 30 samples with the following specification on 04/03/2020.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
104313.01	J-712	04/02/2020	Gaseous	1
104313.02	I-401	04/02/2020	Gaseous	1
104313.03	I-402	04/02/2020	Gaseous	1
104313.04	G-504	04/02/2020	Gaseous	1
104313.05	G-505	04/02/2020	Gaseous	1
104313.06	G-506	04/02/2020	Gaseous	1
104313.07	H-600	04/02/2020	Gaseous	1
104313.08	A-2	04/02/2020	Gaseous	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
TO-10A ^ PCB-NG/M3	04/10/2020	2	Normal	ng/m3

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
104313.09	J-712-W1	04/03/2020	Solid	1
104313.10	J-712-W2	04/03/2020	Solid	1
104313.11	J-712-W3	04/03/2020	Solid	1
104313.12	I-401-W1	04/03/2020	Solid	1
104313.13	I-401-W2	04/03/2020	Solid	1
104313.14	I-401-W3	04/03/2020	Solid	1
104313.15	I-402-W1	04/03/2020	Solid	1
104313.16	I-402-W2	04/03/2020	Solid	1
104313.17	I-402-W3	04/03/2020	Solid	1
104313.18	G-504-W1	04/03/2020	Solid	1
104313.19	G-504-W2	04/03/2020	Solid	1
104313.20	G-504-W3	04/03/2020	Solid	1
104313.21	G-505-W1	04/03/2020	Solid	1

Continued

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

Project ID: SMSD-20-9426
Date Received 04/03/2020
Date Reported 04/14/2020

Job Number	Order Date	Client
104313	04/03/2020	NV5

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

104313.22	G-505-W2	04/03/2020	Solid	1
104313.23	G-505-W3	04/03/2020	Solid	1
104313.24	G-506-W1	04/03/2020	Solid	1
104313.25	G-506-W2	04/03/2020	Solid	1
104313.26	G-506-W3	04/03/2020	Solid	1
104313.27	G-506-W4	04/03/2020	Solid	1
104313.28	H-600-W1	04/03/2020	Solid	1
104313.29	H-600-W2	04/03/2020	Solid	1
104313.30	H-600-W3	04/03/2020	Solid	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(8082) ^ WIPE-2	04/10/2020	2	Normal	ug/100cm2

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

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

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

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ANALYTICAL RESULTS

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Attn: Jonathan Barkman
Page: **2**

Site

Malibu High School
Malibu, CA

Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104313	04/03/2020	NV5

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

QC Batch No: 040720ZB1

Our Lab I.D.			Method Blank	104313.01	104313.02	104313.03	104313.04
Client Sample I.D.				J-712	I-401	I-402	G-504
Date Sampled				04/02/2020	04/02/2020	04/02/2020	04/02/2020
Date Prepared			04/07/2020	04/07/2020	04/07/2020	04/07/2020	04/07/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			04/08/2020	04/08/2020	04/08/2020	04/09/2020	04/09/2020
Matrix			Gaseous	Gaseous	Gaseous	Gaseous	Gaseous
Units			ng/m3	ng/m3	ng/m3	ng/m3	ng/m3
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	14	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	32.1	ND	ND	14.8
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	104313.01	104313.02	104313.03	104313.04
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		60.4	53.0	49.8	47.8	49.0
Tetrachloro-m-xylene	30-150		87.4	81.6	95.6	77.6	72.6

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ANALYTICAL RESULTS

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Page: 3

Site

Malibu High School
Malibu, CA

Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104313	04/03/2020	NV5

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

QC Batch No: 040720ZB1

Our Lab I.D.			104313.05	104313.06	104313.07	104313.08	
Client Sample I.D.			G-505	G-506	H-600	A-2	
Date Sampled			04/02/2020	04/02/2020	04/02/2020	04/02/2020	
Date Prepared			04/07/2020	04/07/2020	04/07/2020	04/07/2020	
Preparation Method			3540C	3540C	3540C	3540C	
Date Analyzed			04/09/2020	04/09/2020	04/09/2020	04/09/2020	
Matrix			Gaseous	Gaseous	Gaseous	Gaseous	
Units			ng/m3	ng/m3	ng/m3	ng/m3	
Dilution Factor			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	21.2	32.1	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.			**104313.05**	**104313.06**	**104313.07**	**104313.08**	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Decachlorobiphenyl	30-150		46.2	58.6	49.0	56.2	
Tetrachloro-m-xylene	30-150		87.0	88.6	93.8	74.2	

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Page: **4**

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Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104313	04/03/2020	NV5

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

QC Batch No: 040920ZB1

Our Lab I.D.			Method Blank	104313.09	104313.10	104313.11	104313.12
Client Sample I.D.				J-712-W1	J-712-W2	J-712-W3	I-401-W1
Date Sampled				04/03/2020	04/03/2020	04/03/2020	04/03/2020
Date Prepared			04/09/2020	04/09/2020	04/09/2020	04/09/2020	04/09/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			04/10/2020	04/10/2020	04/10/2020	04/10/2020	04/10/2020
Matrix			Solid	Solid	Solid	Solid	Solid
Units			ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	ND	0.307	0.215	0.147
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	104313.09	104313.10	104313.11	104313.12
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		33.4	41.8	52.4	51.4	91.6
Tetrachloro-m-xylene	30-150		77.2	58.2	60.4	57.6	74.0

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Page: **5**

Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104313	04/03/2020	NV5

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

QC Batch No: 040920ZB1

Our Lab I.D.			104313.13	104313.14	104313.15	104313.16	104313.17
Client Sample I.D.			I-401-W2	I-401-W3	I-402-W1	I-402-W2	I-402-W3
Date Sampled			04/03/2020	04/03/2020	04/03/2020	04/03/2020	04/03/2020
Date Prepared			04/09/2020	04/09/2020	04/09/2020	04/09/2020	04/09/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			04/10/2020	04/10/2020	04/10/2020	04/11/2020	04/11/2020
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.			104313.13	104313.14	104313.15	104313.16	104313.17
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		37.4	42.8	44.8	58.2	56.0
Tetrachloro-m-xylene	30-150		65.4	65.2	58.6	96.2	70.6

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Page: 6

Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104313	04/03/2020	NV5

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

QC Batch No: 040920ZB1

Our Lab I.D.			104313.18	104313.19	104313.20	104313.21	104313.22
Client Sample I.D.			G-504-W1	G-504-W2	G-504-W3	G-505-W1	G-505-W2
Date Sampled			04/03/2020	04/03/2020	04/03/2020	04/03/2020	04/03/2020
Date Prepared			04/09/2020	04/09/2020	04/09/2020	04/09/2020	04/09/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			04/11/2020	04/11/2020	04/11/2020	04/11/2020	04/11/2020
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	1.86	ND	0.058J	0.322
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.			**104313.18**	**104313.19**	**104313.20**	**104313.21**	**104313.22**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		42.8	40.6	37.8	34.4	36.4
Tetrachloro-m-xylene	30-150		86.4	66.2	71.4	60.2	43.4

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Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104313	04/03/2020	NV5

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

QC Batch No: 040920ZB1

Our Lab I.D.			104313.23	104313.24	104313.25	104313.26	
Client Sample I.D.			G-505-W3	G-506-W1	G-506-W2	G-506-W3	
Date Sampled			04/03/2020	04/03/2020	04/03/2020	04/03/2020	
Date Prepared			04/09/2020	04/09/2020	04/09/2020	04/09/2020	
Preparation Method			3540C	3540C	3540C	3540C	
Date Analyzed			04/11/2020	04/11/2020	04/11/2020	04/11/2020	
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	0.121	0.112	0.165	
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.			104313.23	104313.24	104313.25	104313.26	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Decachlorobiphenyl	30-150		31.4	39.0	49.4	51.6	
Tetrachloro-m-xylene	30-150		48.8	78.8	83.4	48.4	

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Page: **8**

Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104313	04/03/2020	NV5

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

QC Batch No: 041020ZB1

Our Lab I.D.			Method Blank	104313.27	104313.28	104313.29	104313.30
Client Sample I.D.				G-506-W4	H-600-W1	H-600-W2	H-600-W3
Date Sampled				04/03/2020	04/03/2020	04/03/2020	04/03/2020
Date Prepared			04/10/2020	04/10/2020	04/10/2020	04/10/2020	04/10/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			04/13/2020	04/13/2020	04/13/2020	04/13/2020	04/13/2020
Matrix			Solid	Solid	Solid	Solid	Solid
Units			ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2	ug/100cm2
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.05	0.10	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.05	0.10	ND	0.216	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	104313.27	104313.28	104313.29	104313.30
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		30.8	54.0	48.6	48.0	43.2
Tetrachloro-m-xylene	30-150		48.0	71.0	104	57.0	63.4

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Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104313	04/03/2020	NV5

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

QC Batch No: 040720ZB1; LCS: Blank; LCS Prepared: 04/07/2020; LCS Analyzed: 04/08/2020; 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	515	103	500	500	100	3.0	40-140	<40	
Aroclor-1260 (PCB-1260)	500	366	73.2	500	346	69.2	5.6	40-140	<40	
Surrogates										
Decachlorobiphenyl	50.0	36.7	73.4	50.0	32.1	64.2	13.4	30-150	<30	
Tetrachloro-m-xylene	50.0	40.2	80.4	50.0	39.3	78.6	2.3	30-150	<30	

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Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104313	04/03/2020	NV5

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

QC Batch No: 040920ZB1; LCS: Blank; LCS Prepared: 04/09/2020; LCS Analyzed: 04/10/2020; Units: ug/100cm2

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	449	89.8	500	531	106	16.5	50-150	<20	
Aroclor-1260 (PCB-1260)	500	417	83.4	500	421	84.2	<1	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	27.5	55.0	50.0	26.9	53.8	2.18	30-150	<20	
Tetrachloro-m-xylene	50.0	51.8	104	50.0	44.6	89.2	14.2	30-150	<20	

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Page: **11**

Project ID: SMSD-20-9426
Project Name: Malibu HS PCB Air & Wipe

AETL Job Number	Submitted	Client
104313	04/03/2020	NV5

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

QC Batch No: 041020ZB1; LCS: Blank; LCS Prepared: 04/10/2020; LCS Analyzed: 04/13/2020; Units: ug/100cm2

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	530	106	500	465	93.0	13.1	50-150	<20	
Aroclor-1260 (PCB-1260)	500	431	86.2	500	423	84.6	1.9	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	23.1	46.2	50.0	23.1	46.2	<1	30-150	<20	
Tetrachloro-m-xylene	50.0	45.0	90.0	50.0	41.5	83.0	8.1	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