



THIRD QUARTER 2019 – AIR & WIPE SAMPLING

Malibu High School
Buildings D, J, and G
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 11, 2019

EXECUTIVE SUMMARY



On behalf of the Santa Monica-Malibu Unified School District (District), Alta Environmental (Alta) has prepared this report summarizing the third quarter 2019 (3Q2019) sampling activities completed for select buildings within the Malibu High School campus, located at 30215 Morning View Drive, Malibu, California 90265. The sampling activities were conducted to investigate the potential presence of detectable polychlorinated biphenyl (PCB) compounds in ambient air and on non-porous surfaces, if any, within Buildings D, G, I, and J.

Concentrations of the PCBs were detected in air samples collected from Buildings G and J ranging from 140 ng/m³ to 340 ng/m³. Based on the age of students and staff occupying these areas, the reported concentrations are below the USEPA's criteria for evaluating exposure levels in indoor air at school sites.

Concentrations of the PCBs were detected in wipe samples collected from Buildings D, G, I, and J ranging from 0.100 µg/cm² to 0.420 µg/cm². The reported 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 the 3Q2019 sampling event.

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REPORTED: October 11, 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: Quarterly PCB Sampling Report
Malibu High School
30215 Morning View Drive
Malibu, CA, 90265

1 PROJECT BACKGROUND

The Santa Monica-Malibu Unified School District (District) retained Alta Environmental (Alta) 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 third quarter 2019 (3Q2019) sampling event.

2 PURPOSE OF INSPECTION AND SAMPLING

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

3 SCOPE OF SERVICES

During the course of our investigation, Alta collected a total of 16 air samples (including 1 field-blank sample) and a total of 50 wipe samples (including 1 field-blank sample).

4 METHODOLOGY

4.1 Air Sampling

Alta deployed air sampling units at various locations within Buildings D (8 samples), G (1 sample), I (3 samples), and J (3 samples). Figures depicting the air sample locations are presented as Appendix A.

Each primary 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 ALS Environmental in Salt Lake City, Utah. Samples were analyzed for PCBs using EPA Method TO-10A.

4.2 Wipe Sampling

Alta conducted wipe sampling at various locations within Buildings D (30 samples), G (3 samples), I (7 samples) and J (9 samples). Figures depicting the air 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 Enviro-Chem, Inc. All samples were prepared for analysis by the laboratory using EPA Method 3540 (Soxhlet extraction) and were analyzed for PCBs using EPA Method 8082A.

5 RESULTS

5.1 Air Sampling

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

<u>Sample Location</u>	<u>Sample Number</u>	<u>Total PCBs (ng/m³)</u>
Building G, Room 506	0733119-JR-06	140
Building J, Room 703	073119-JR-07	180
Building J, Room 704	073119-JR-09	230
Building J, Room 705	073119-JR-08	340

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

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

5.2 Wipe Sampling

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

<u>Sample Location</u>	<u>Sample Number</u>	<u>Total PCBs (μg/100 cm²)</u>
Building D, Room 101-A, Desktop	080119-D-101A-2	0.124

<u>Sample Location</u>	<u>Sample Number</u>	<u>Total PCBs (µg/100 cm²)</u>
Building G, Room 506 Wooden Bookshelf	0801-W14	0.218
Building I, Room 402C Brown Tabletop	080119-I-402C-3	0.100
Building J, Room 704 Brown Floor Tile	0801-W17	0.420
Building J, Room 705 Beige Floor Tile	0801-W20	0.223
Building J, Room 705 Windowsill	0801-W21	0.117

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

6 QUALITY CONTROL

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

Laboratory analysis of the air samples was completed by ALS Environmental, located at 960 West Le Voy Drive in Salt Lake City, Utah. ALS Environmental is accredited by the AIHA Laboratory Accreditation Program and the National Environmental Laboratory Accreditation Conference. Laboratory analysis of the wipe samples was completed by Enviro-Chem, Inc., located at 1214 East Lexington Avenue in Pomona, California. Enviro-Chem, Inc. 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 the PCB Aroclor-1248 were detected in air samples collected from Buildings G and J ranging from 140 ng/m³ to 340 ng/m³. Based on the age of students and staff occupying these areas, the reported concentrations are below the USEPA's criteria for evaluating exposure levels in indoor air at school sites.

Concentrations of the PCB Aroclor-1254 were detected in wipe samples collected from Buildings D, G, I, and J ranging from 0.100 µg/cm² to 0.420 µg/cm². The reported 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 the 3Q2019 sampling event.

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:

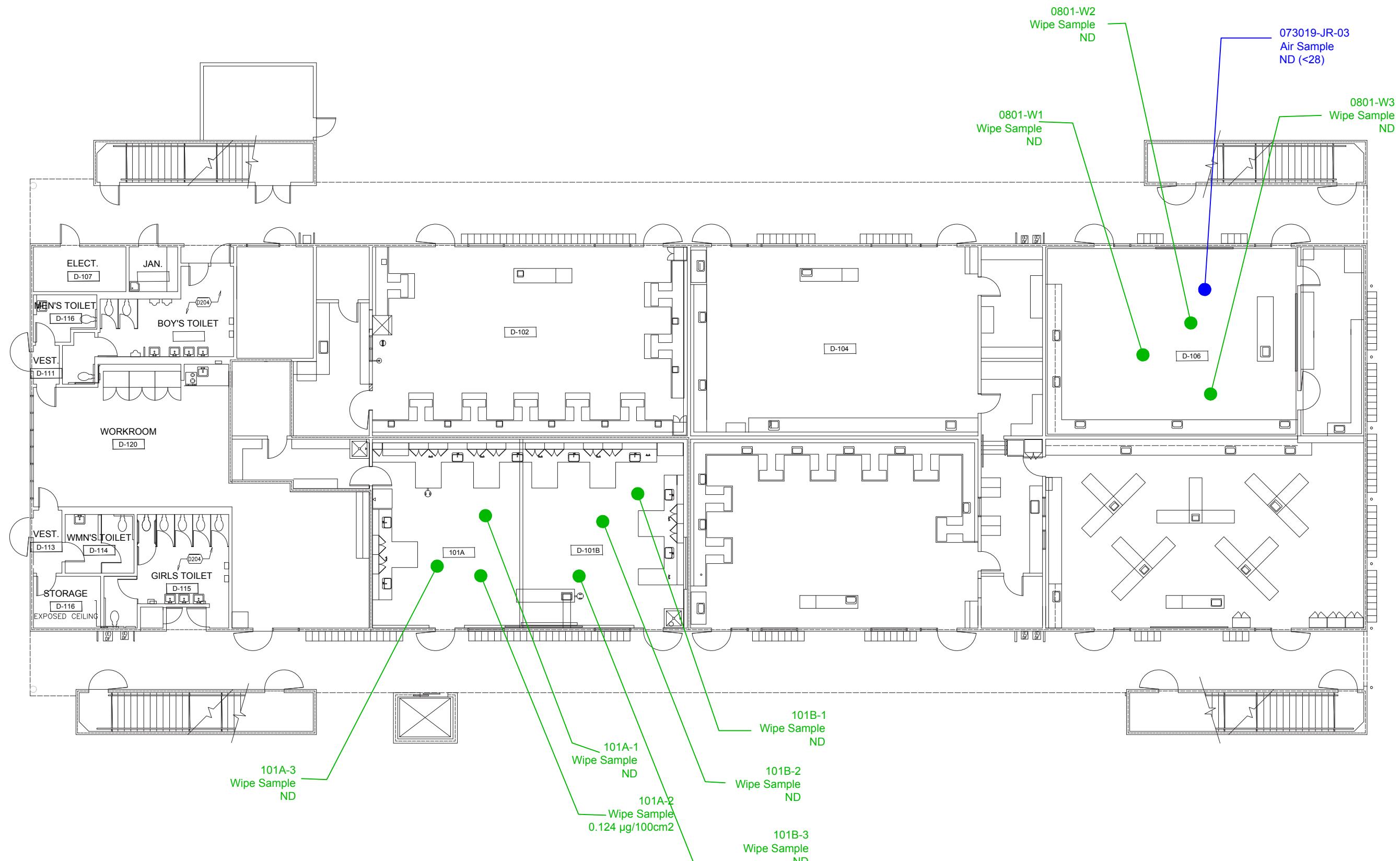
Alta Environmental



David R. Schack
Vice President, Building Sciences

Appendix A

Figures



Legend

- Air Sample
- Wipe Sample

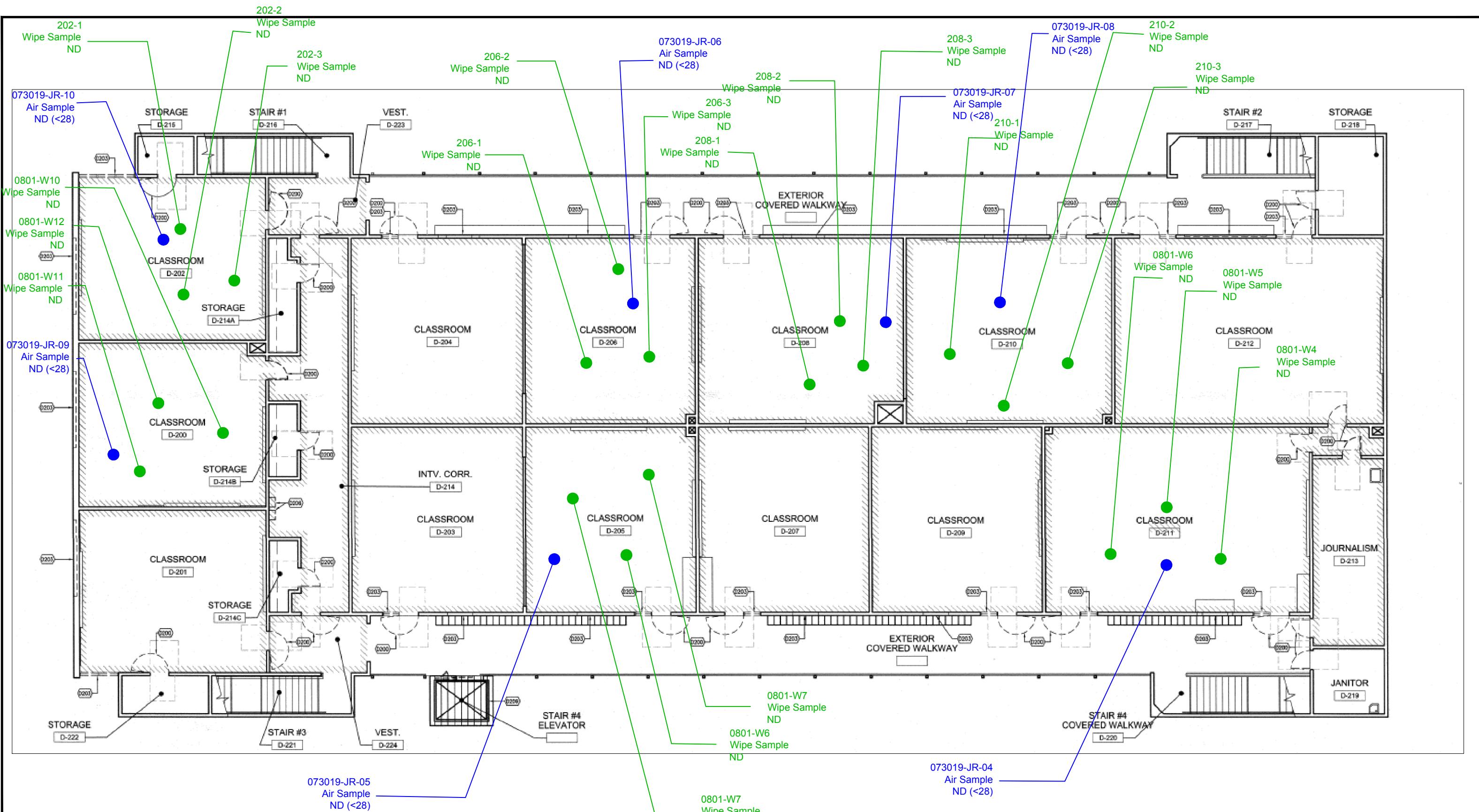
Sample Location Map - Building D (F1) - Quarterly Sampling

Malibu High School
30215 Morning View Drive
Malibu, California



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AN NIVIS COMPANY
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DATE: August 2019 | Project No.: SMSD-18-8201



Legend

- Air Sample
 - Wipe Sample

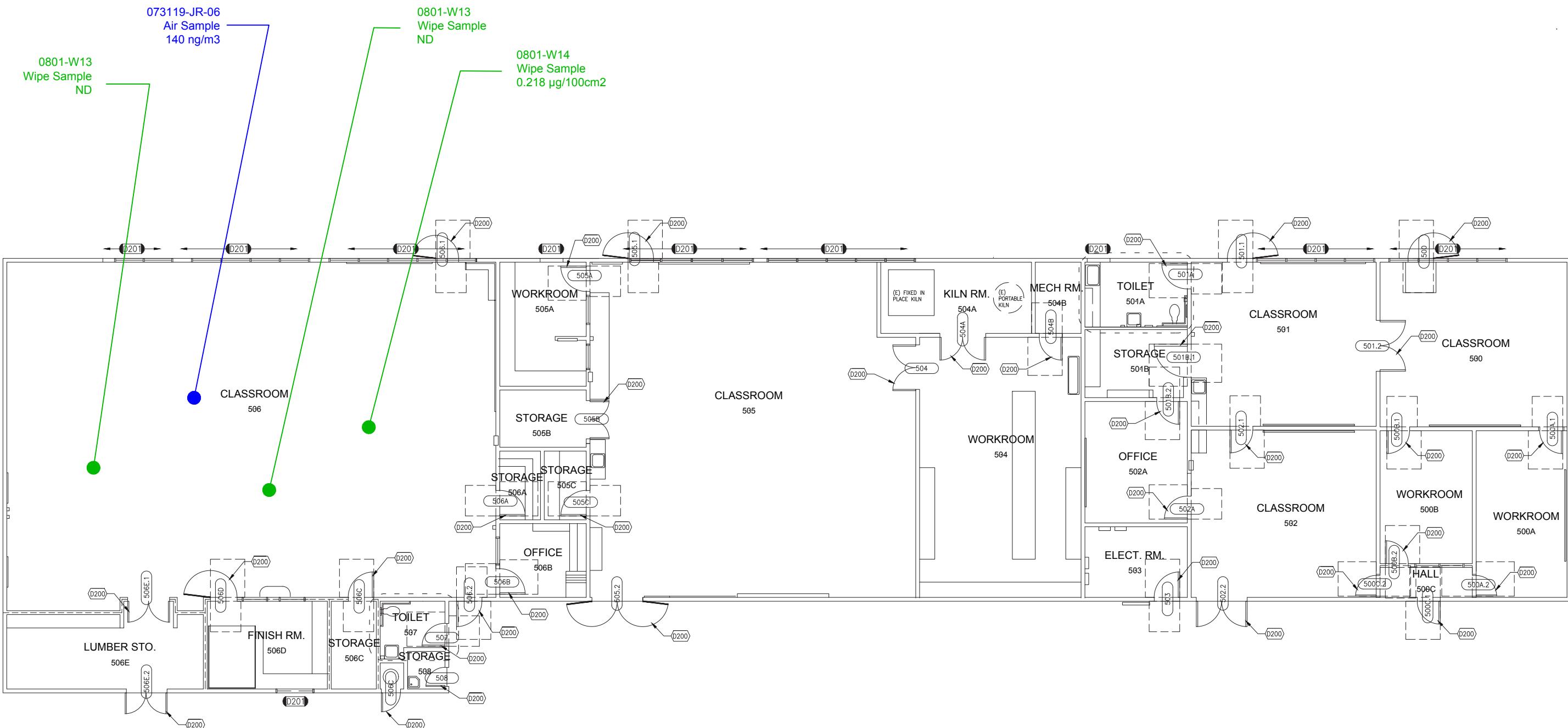
Sample Location Map - Building D (F2) - Quarterly Sampling

Malibu High School
30215 Morning View Drive
Malibu, California



AN  COMPANY
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DATE: August 2019 | Project No.: SMSD-18-8201

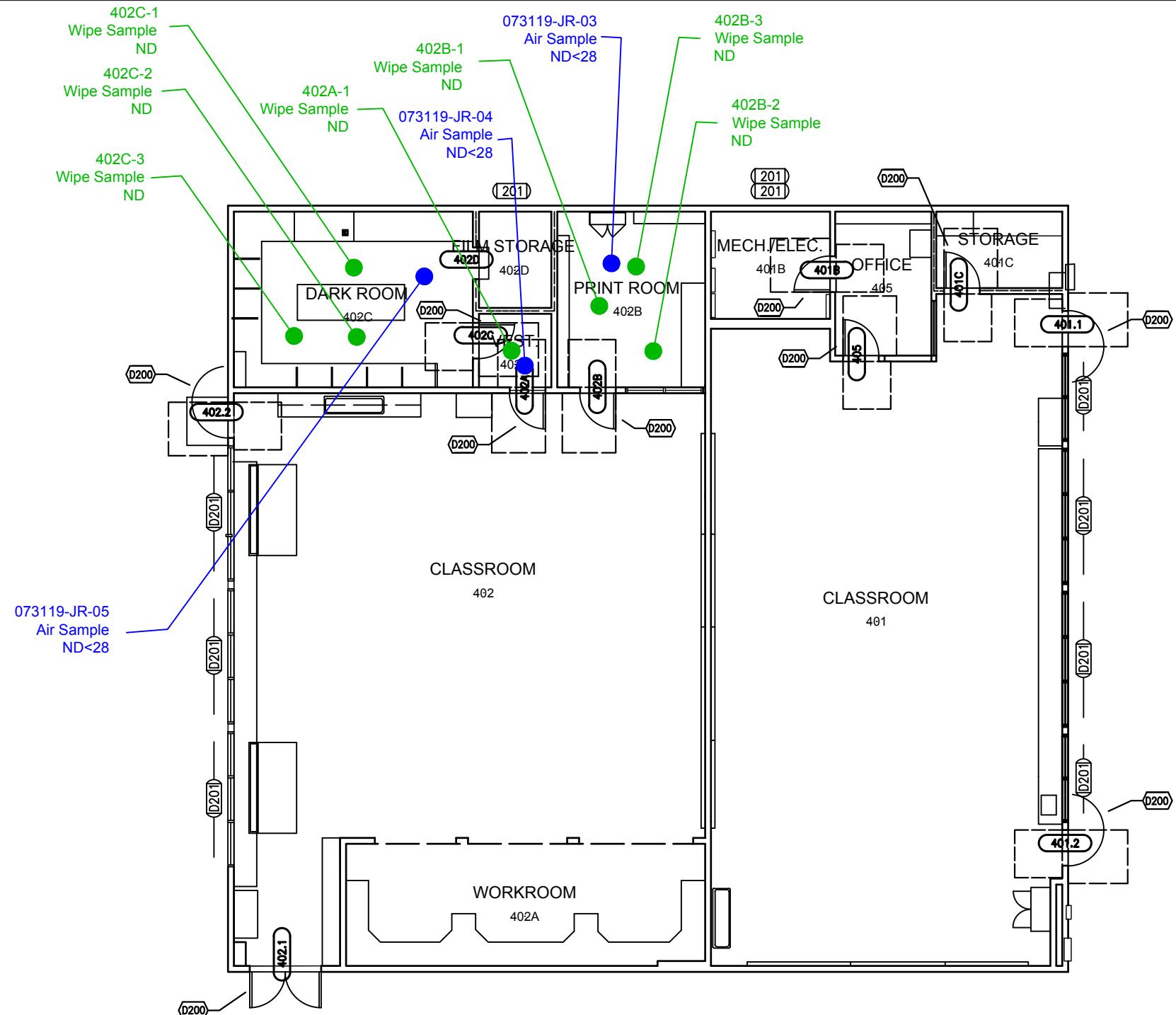


Legend
● Air Sample
● Wipe Sample

Sample Location Map - Building G - Quarterly Sampling

Malibu High School
 30215 Morning View Drive
 Malibu, California





Legend

- Air Sample
- Wipe Sample

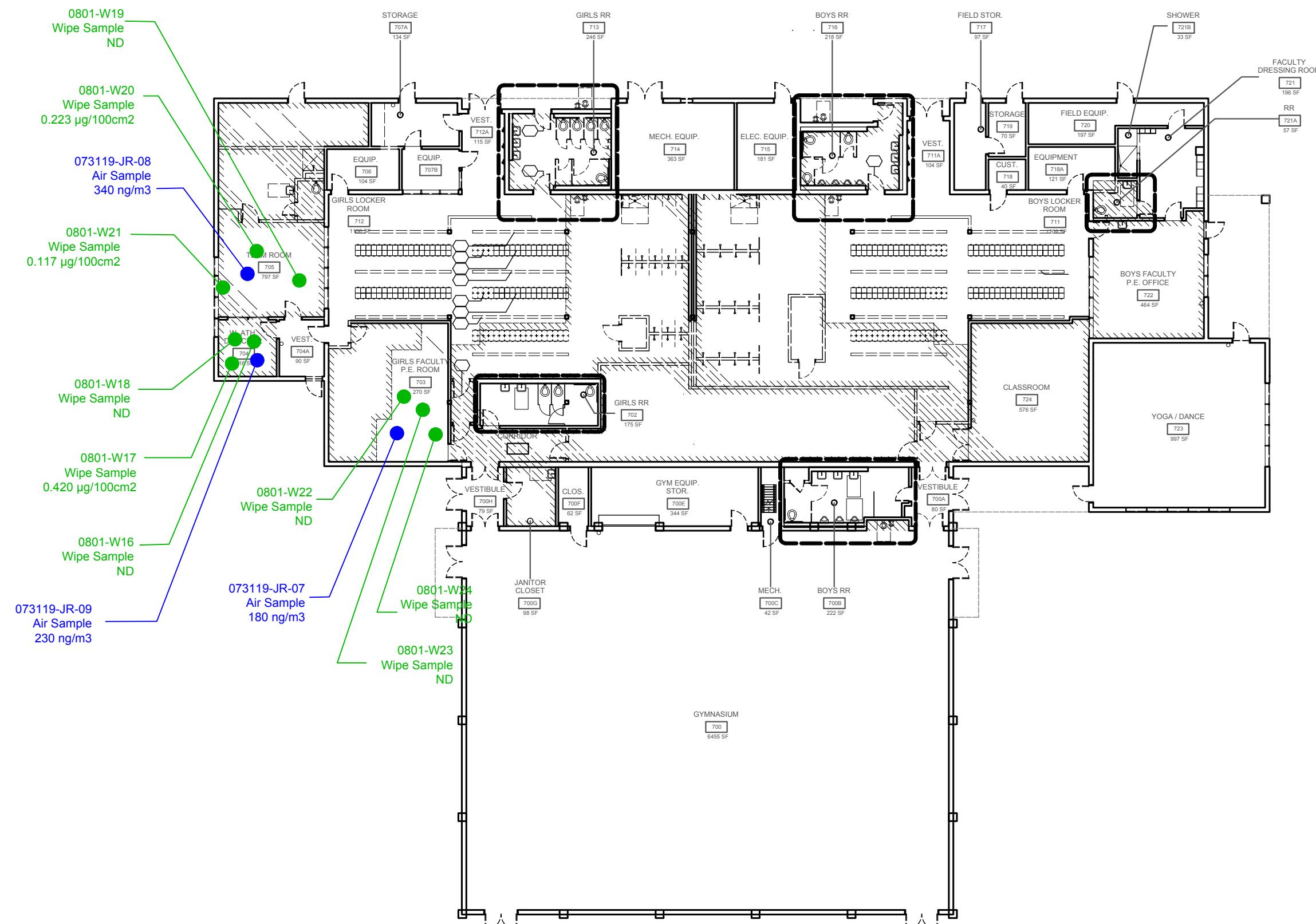
Sample Location Map - Building I - Quarterly Sampling

Malibu High School
30215 Morning View Drive
Malibu, California



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DATE: August 2019 | Project No.: SMSD-18-8201



Legend

- Air Sample
- Wipe Sample

Sample Location Map - Building J - Quarterly Sampling

Malibu High School
30215 Morning View Drive
Malibu, California



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DATE: August 2019 | Project No.: SMSD-18-8201

Appendix B

Sample Inventories

Summary of Malibu High School Surface Wipe Sampling Results

CLIENT: SMMUSD
PROJECT NO: SMSD-18-8201
PROJECT: Malibu High School Quarterly Sampling - 3Q2019
Date: 10/11/2019

Building	Floor Plan ID	Component Description	Sampling Date	Sample ID	Total PCBs ($\mu\text{g}/100\text{cm}^2$)
D	Room 101-A	Blue sheet flooring	8/1/2019	101A-1	ND (<0.10)
		Tan metal desk	8/1/2019	101A-2	0.124
		Brown veneer desk	8/1/2019	101A-3	ND (<0.10)
	Room 101-B	Blue sheet flooring	8/1/2019	101B-1	ND (<0.10)
		White kitchen countertop	8/1/2019	101B-2	ND (<0.10)
		Brown veneer teacher's desk	8/1/2019	101B-3	ND (<0.10)
	Room 106	Wooden desk - White	8/1/2019	0801-W1	ND (<0.10)
		12" floor tile gray speckled	8/1/2019	0801-W2	ND (<0.10)
		Gray counter top	8/1/2019	0801-W3	ND (<0.10)
	Room 200	Brown wooden desk	8/1/2019	0801-W10	ND (<0.10)
		Blue speckled 12" floor tile	8/1/2019	0801-W11	ND (<0.10)
		Book shelf - white	8/1/2019	0801-W12	ND (<0.10)
	Room 202	Gray vinyl floor tile	8/1/2019	202-1	ND (<0.10)
		Desk - composite veneer	8/1/2019	202-2	ND (<0.10)
		Black filing cabinet	8/1/2019	202-3	ND (<0.10)
	Room 205	Brown wooden desk	8/1/2019	0801-W7	ND (<0.10)
		Blue speckled 12" floor tile	8/1/2019	0801-W8	ND (<0.10)
		Wooden book shelf	8/1/2019	0801-W9	ND (<0.10)
	Room 206	Gray vinyl floor tile	8/1/2019	206-1	ND (<0.10)
		Desk - composite wood veneer	8/1/2019	206-2	ND (<0.10)
		Tan metal book case	8/1/2019	206-3	ND (<0.10)
	Room 208	Gray vinyl floor tile	8/1/2019	208-1	ND (<0.10)
		Brown composite desk	8/1/2019	208-2	ND (<0.10)
		Off-white HVAC unit	8/1/2019	208-3	ND (<0.10)
	Room 210	Gray vinyl floor tile	8/1/2019	210-1	ND (<0.10)
		Blue metal desk	8/1/2019	210-2	ND (<0.10)
		Brown veneer book case small	8/1/2019	210-3	ND (<0.10)
	Room 211	Brown wooden desk	8/1/2019	0801-W4	ND (<0.10)
		Brown metal file cabinet	8/1/2019	0801-W5	ND (<0.10)
		Blue speckled 12" floor tile	8/1/2019	0801-W6	ND (<0.10)
G	Room 506	Counter top wooden	8/1/2019	0801-W13	ND (<0.10)
		Book shelf wooden	8/1/2019	0801-W14	0.218
		Wood flooring	8/1/2019	0801-W15	ND (<0.10)
I	Room 402A	Gray sheet flooring	8/1/2019	402A-1	ND (<0.10)
	Room 402B	Brown 9" vinyl floor tile	8/1/2019	402B-1	ND (<0.10)
	Room 402B	White counter top	8/1/2019	402B-2	ND (<0.10)
	Room 402B	Gray window sil	8/1/2019	402B-3	ND (<0.10)
	Room 402C	Gray sheet flooring	8/1/2019	402C-1	ND (<0.10)
	Room 402C	Black table top	8/1/2019	402C-2	ND (<0.10)
	Room 402C	Brown table top	8/1/2019	402C-3	0.100
J	Room 703	Wooden desk	8/1/2019	0801-W22	ND (<0.10)
		12" Beige speckled floor tile	8/1/2019	0801-W23	ND (<0.10)
		Book white shelf	8/1/2019	0801-W24	ND (<0.10)
	Room 704	Black desk	8/1/2019	0801-W16	ND (<0.10)
		9" Brown floor tile	8/1/2019	0801-W17	0.420
		White plastic book shelf	8/1/2019	0801-W18	ND (<0.10)
	Room 705	Wooden desk	8/1/2019	0801-W19	ND (<0.10)
		9" beige floor tile	8/1/2019	0801-W20	0.223
		Windowsill - white painted	8/1/2019	0801-W21	0.117
	Field Blank	Field Blank	8/1/2019	0801-W25	ND (<0.10)

Notes:

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

PCB = polychlorinated biphenyl

Summary of Malibu High School Air Sampling Results

CLIENT: SMMUSD
PROJECT NO: SMSD-18-8201
PROJECT: Malibu High School Quarterly Sampling - 3Q2019
Date: 10/11/2019

Building	Room Placard ID	Room Description	Sampling Date ^[a]	Sample ID	Total PCBs (ng/m ³)
D	106	Classroom	7/30/2019	073019-JR-03	ND<(28)
	200	Classroom	7/30/2019	073019-JR-09	ND<(28)
	202	Classroom	7/30/2019	073019-JR-10	ND<(28)
	205	Classroom	7/30/2019	073019-JR-05	ND<(28)
	206	Classroom	7/30/2019	073019-JR-06	ND<(28)
	208	Classroom	7/30/2019	073019-JR-07	ND<(28)
	210	Classroom	7/30/2019	073019-JR-08	ND<(28)
	211	Classroom	7/30/2019	073019-JR-04	ND<(28)
G	506	Workroom	7/31/2019	073119-JR-06	140 ng/m ³
I	402A	Vest	7/31/2019	073119-JR-04	ND<(28)
	402B	Print Room	7/31/2019	073119-JR-03	ND<(28)
	402C	Dark room	7/31/2019	073119-JR-05	ND<(28)
J	703	Girls Faculty PE Room	7/31/2019	073119-JR-07	180 ng/m ³
	704	Doctor's Room	7/31/2019	073119-JR-09	230 ng/m ³
	705	Team Room	7/31/2019	073119-JR-08	340 ng/m ³
Field blank	NA	NA	7/31/2019	073119-JR-11	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



ANALYTICAL REPORT

Report Date: August 15, 2019

Jonathan Barkman
ALTA Environmental
3777 Long Beach Blvd.
Long Beach, CA 90807

Phone: (562) 495-5777

E-mail: jonathan.barkman@altaenviron.com

Workorder: **34-1921822**

Project ID: Malibu HS

Purchase Order: SMSD-18-8201

Project Manager Paul E. Pope

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
073019-JR-03	1921822001	07/30/19	08/01/19	Malibu HS
073019-JR-04	1921822002	07/30/19	08/01/19	Malibu HS
073019-JR-05	1921822003	07/30/19	08/01/19	Malibu HS
073019-JR-06	1921822004	07/30/19	08/01/19	Malibu HS
073019-JR-07	1921822005	07/30/19	08/01/19	Malibu HS
073019-JR-08	1921822006	07/30/19	08/01/19	Malibu HS
073019-JR-09	1921822007	07/30/19	08/01/19	Malibu HS
073019-JR-10	1921822008	07/30/19	08/01/19	Malibu HS
073019-JR-11	1921822009	07/30/19	08/01/19	Malibu HS



ANALYTICAL REPORT

Workorder: **34-1921822**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 073019-JR-03	Sampling Site: Malibu HS	Collected: 07/30/2019
Lab ID: 1921822001	Media: PUF Tube	Received: 08/01/2019
Matrix: Air	Sampling Parameter: Air Volume 7282.8 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<27	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	ND	<14	100	1	
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	

Sample ID: 073019-JR-04	Sampling Site: Malibu HS	Collected: 07/30/2019
Lab ID: 1921822002	Media: PUF Tube	Received: 08/01/2019
Matrix: Air	Sampling Parameter: Air Volume 7220.8 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	ND	<14	100	1	
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	



ANALYTICAL REPORT

Workorder: **34-1921822**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 073019-JR-05	Sampling Site: Malibu HS	Collected: 07/30/2019
Lab ID: 1921822003	Media: PUF Tube	Received: 08/01/2019
Matrix: Air	Sampling Parameter: Air Volume 7309.4 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<27	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	ND	<14	100	1	
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	

Sample ID: 073019-JR-06	Sampling Site: Malibu HS	Collected: 07/30/2019
Lab ID: 1921822004	Media: PUF Tube	Received: 08/01/2019
Matrix: Air	Sampling Parameter: Air Volume 7251.12 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	ND	<14	100	1	
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	



ANALYTICAL REPORT

Workorder: **34-1921822**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 073019-JR-07	Sampling Site: Malibu HS	Collected: 07/30/2019
Lab ID: 1921822005	Media: PUF Tube	Received: 08/01/2019
Matrix: Air	Sampling Parameter: Air Volume 7268.4 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	ND	<14	100	1	
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	

Sample ID: 073019-JR-08	Sampling Site: Malibu HS	Collected: 07/30/2019
Lab ID: 1921822006	Media: PUF Tube	Received: 08/01/2019
Matrix: Air	Sampling Parameter: Air Volume 7248.2 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	ND	<14	100	1	
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	



ANALYTICAL REPORT

Workorder: **34-1921822**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 073019-JR-09	Sampling Site: Malibu HS	Collected: 07/30/2019
Lab ID: 1921822007	Media: PUF Tube	Received: 08/01/2019
Matrix: Air	Sampling Parameter: Air Volume 7227.3 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	ND	<14	100	1	
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	

Sample ID: 073019-JR-10	Sampling Site: Malibu HS	Collected: 07/30/2019
Lab ID: 1921822008	Media: PUF Tube	Received: 08/01/2019
Matrix: Air	Sampling Parameter: Air Volume 7266.2 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	ND	<14	100	1	
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	



ANALYTICAL REPORT

Workorder: **34-1921822**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 073019-JR-11	Sampling Site: Malibu HS	Collected: 07/30/2019
Lab ID: 1921822009	Media: PUF Tube	Received: 08/01/2019
Matrix: Air	Sampling Parameter: NA	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	Weight/Volume	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	NA	200	1	
Aroclor 1232	ND	NA	100	1	
Aroclor 1016	ND	NA	100	1	
Aroclor 1242	ND	NA	100	1	
Aroclor 1248	ND	NA	100	1	
Aroclor 1254	ND	NA	100	1	
Aroclor 1260	ND	NA	100	1	
Aroclor 1262	ND	NA	100	1	
Aroclor 1268	ND	NA	100	1	

Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method	Analyst	Peer Review
EPA TO-10A, PCBs	/S/ Mila V. Potekhin 08/13/2019 10:20	/S/ Matthew Roberts 08/15/2019 10:28

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alsit.lab@ALSGlobal.com
Web: www.alsslcc.com



ANALYTICAL REPORT

Workorder: **34-1921822**

Client: ALTA Environmental

Project Manager: Paul E. Pope

General Lab Comments

The results provided in this report relate only to the items tested.

Samples were received in acceptable condition unless otherwise noted.

Samples have not been blank corrected unless otherwise noted.

This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

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ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	PJLA (DoD ELAP)	L17-506	http://www.pjlabs.com
	PJLA (ISO 17025)	L17-507-R1	http://www.pjlabs.com
	Utah (TNI)	UT00953	http://lams.nelac-institute.org/search
	Iowa (TNI)	IA# 376	http://www.shl.uiowa.edu/labcert/idnr/
	Kansas	E-10416	http://www.kdheks.gov/envlab/disclaimer.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP)	101574	http://www.aihaaccreditedlabs.org
	DOECAP-AP	L18-606	http://www.pjlabs.com
	Washington	C596	https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Lab oratory-Accreditation
Dietary Supplements	PJLA (ISO 17025)	L17-507-R1	http://www.pjlabs.com

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.

RL = Reporting Limit, a verified value of method/media/instrument sensitivity.

CRDL = Contract Required Detection Limit

Reg. Limit = Regulatory Limit.

ND = Not Detected, testing result not detected above the MDL or RL.

< Means this testing result is less than the numerical value.

** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.

J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

B = Qualifier indicates that the analyte was detected in the blank.

E = Qualifier indicates that the analyte result exceeds calibration range.

P = Qualifier indicates that the RPD between the two columns is greater than 40%.



ANALYTICAL REPORT

Report Date: August 15, 2019

Jonathan Barkman
ALTA Environmental
3777 Long Beach Blvd.
Long Beach, CA 90807

Phone: (562) 495-5777

E-mail: jonathan.barkman@altaenviron.com

Workorder: **34-1922156**

Project ID: SMSD-18-8201

Purchase Order: SMSD-18-8201

Project Manager Paul E. Pope

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
073119-JR-03	1922156001	07/31/19	08/03/19	Malibu HS
073119-JR-04	1922156002	07/31/19	08/03/19	Malibu HS
073119-JR-05	1922156003	07/31/19	08/03/19	Malibu HS
073119-JR-06	1922156004	07/31/19	08/03/19	Malibu HS
073119-JR-07	1922156005	07/31/19	08/03/19	Malibu HS
073119-JR-08	1922156006	07/31/19	08/03/19	Malibu HS
073119-JR-09	1922156007	07/31/19	08/03/19	Malibu HS
073119-JR-10	1922156008	07/31/19	08/03/19	Malibu HS



ANALYTICAL REPORT

Workorder: **34-1922156**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 073119-JR-03	Sampling Site: Malibu HS	Collected: 07/31/2019
Lab ID: 1922156001	Media: PUF Tube	Received: 08/03/2019
Matrix: Air	Sampling Parameter: Air Volume 7225.9 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	ND	<14	100	1	
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	

Sample ID: 073119-JR-04	Sampling Site: Malibu HS	Collected: 07/31/2019
Lab ID: 1922156002	Media: PUF Tube	Received: 08/03/2019
Matrix: Air	Sampling Parameter: Air Volume 7272 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	ND	<14	100	1	
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	



ANALYTICAL REPORT

Workorder: **34-1922156**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 073119-JR-05	Sampling Site: Malibu HS	Collected: 07/31/2019
Lab ID: 1922156003	Media: PUF Tube	Received: 08/03/2019
Matrix: Air	Sampling Parameter: Air Volume 7257.6 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	ND	<14	100	1	
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	

Sample ID: 073119-JR-06	Sampling Site: Malibu HS	Collected: 07/31/2019
Lab ID: 1922156004	Media: PUF Tube	Received: 08/03/2019
Matrix: Air	Sampling Parameter: Air Volume 7256.1 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	990	140	100	1	P
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	



ANALYTICAL REPORT

Workorder: **34-1922156**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 073119-JR-07	Sampling Site: Malibu HS	Collected: 07/31/2019
Lab ID: 1922156005	Media: PUF Tube	Received: 08/03/2019
Matrix: Air	Sampling Parameter: Air Volume 7230.2 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	1300	180	100	1	P
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	

Sample ID: 073119-JR-08	Sampling Site: Malibu HS	Collected: 07/31/2019
Lab ID: 1922156006	Media: PUF Tube	Received: 08/03/2019
Matrix: Air	Sampling Parameter: Air Volume 7244.6 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	2500	340	100	1	
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	



ANALYTICAL REPORT

Workorder: **34-1922156**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 073119-JR-09	Sampling Site: Malibu HS	Collected: 07/31/2019
Lab ID: 1922156007	Media: PUF Tube	Received: 08/03/2019
Matrix: Air	Sampling Parameter: Air Volume 7218.7 L	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	1700	230	100	1	P
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	

Sample ID: 073119-JR-10	Sampling Site: Malibu HS	Collected: 07/31/2019
Lab ID: 1922156008	Media: PUF Tube	Received: 08/03/2019
Matrix: Air	Sampling Parameter: NA	

Analysis Method - EPA TO-10A, PCBs

Preparation: EPA 3540 Soxhlet Ext., EPA TO-10A	<u>Weight/Volume</u>	Analysis: EPA TO-10A, PCBs Air	Instrument ID: GCE03
Batch: ENVX/29134 (HBN: 245220)	Initial: 1 filter	Batch: EGC/7890 (HBN: 245455)	%Solids: NA
Prepared: 08/08/2019	Final: 10 mL	Analyzed: 08/09/2019 00:00	Report Basis: Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	NA	200	1	
Aroclor 1232	ND	NA	100	1	
Aroclor 1016	ND	NA	100	1	
Aroclor 1242	ND	NA	100	1	
Aroclor 1248	ND	NA	100	1	
Aroclor 1254	ND	NA	100	1	
Aroclor 1260	ND	NA	100	1	
Aroclor 1262	ND	NA	100	1	
Aroclor 1268	ND	NA	100	1	

Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method	Analyst	Peer Review
EPA TO-10A, PCBs	/S/ Mila V. Potekhin 08/13/2019 10:20	/S/ Matthew Roberts 08/15/2019 10:28



ANALYTICAL REPORT

Workorder: **34-1922156**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alsit.lab@ALSGlobal.com
Web: www.alssl.com

General Lab Comments

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	PJLA (ISO 17025)	L17-507-R1	http://www.pjlabs.com
	Utah (TNI)	UT00953	http://lams.nelac-institute.org/search
	Iowa (TNI)	IA# 376	http://www.shl.uiowa.edu/labcert/idnr/
	Kansas	E-10416	http://www.kdheks.gov/envlab/disclaimer.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP)	101574	http://www.aihaaccreditedlabs.org
	DOECAP-AP	L18-606	http://www.pjlabs.com
	Washington	C596	https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Lab oratory-Accreditation
Dietary Supplements	PJLA (ISO 17025)	L17-507-R1	http://www.pjlabs.com

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.

RL = Reporting Limit, a verified value of method/media/instrument sensitivity.

CRDL = Contract Required Detection Limit

Reg. Limit = Regulatory Limit.

ND = Not Detected, testing result not detected above the MDL or RL.

< Means this testing result is less than the numerical value.

** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.

J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

B = Qualifier indicates that the analyte was detected in the blank.

E = Qualifier indicates that the analyte result exceeds calibration range.

P = Qualifier indicates that the RPD between the two columns is greater than 40%.

Enviro - Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: August 7, 2019

Mr. Jonathan Barkman
Alta Environmental
3777 Long Beach Blvd, Annex Building
Long Beach, CA 90807
Tel: (562) 495-5777 E-Mail: Jonathan.Barkman@Altaenviron.com

Project: **Malibu HS**
Lab I.D.: **190801-54 through -104**

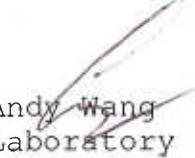
Dear Mr. Barkman:

The **analytical results** for the wipe samples, received by our laboratory on August 1, 2019, are attached. The samples were received intact, and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,


Curtis Desilets
Vice President/Program Manager


Andy Wang
Laboratory Manager

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Alta Environmental**

3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807

Tel: (562) 495-5777 E-Mail: Jonathan.Barkman@Altaenviron.com

PROJECT: **Malibu HS**

DATE RECEIVED: 08/01/19

DATE SAMPLED: 08/01/19

DATE EXTRACTED: 08/02-03/19

MATRIX: SOLID(WIPE)

DATE ANALYZED: 08/05/19

REPORT TO: MR. JONATHAN BARKMAN

DATE REPORTED: 08/07/19

PCBs ANALYSIS

METHOD: EPA 3540C/8082; PAGE 1 OF 3

UNITS: uG/100CM² = MICROGRAM PER 100 SQUARE CENTIMETERS

SAMPLE I.D.	LAB I.D.	PCB- 1016	PCB- 1221	PCB- 1232	PCB- 1242	PCB- 1248	PCB- 1254	PCB- 1260	TOTAL PCBs*	DF
0801-W1	190801-54	ND	1							
0801-W2	190801-55	ND	1							
0801-W3	190801-56	ND	1							
0801-W4	190801-57	ND	1							
0801-W5	190801-58	ND	1							
0801-W6	190801-59	ND	1							
0801-W7	190801-60	ND	1							
0801-W8	190801-61	ND	1							
0801-W9	190801-62	ND	1							
0801-W10	190801-63	ND	1							
0801-W11	190801-64	ND	1							
0801-W12	190801-65	ND	1							
0801-W13	190801-66	ND	1							
0801-W14	190801-67	ND	ND	ND	ND	ND	0.218	ND	0.218	1
0801-W15	190801-68	ND	1							
0801-W16	190801-69	ND	1							
0801-W17	190801-70	ND	ND	ND	ND	ND	0.420	ND	0.420	1
0801-W18	190801-71	ND	1							
Method Blank		ND	1							
PQL		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

COMMENTS:

PQL = Practical Quantitation Limit

DF = Dilution Factor

Actual Detection Limit = PQL X DF

ND = Non-Detected or Below the Actual Detection Limit

* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260

Data Reviewed and Approved by: John
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

EPA 8082 QA/QC Report

Matrix:

Wipe

Date Analyzed:

8/5/2019

Unit:

ug / 100 cm²**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**Spiked Sample Lab I.D.:190805-LCS3/4

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	20.0	20.9	105%	19.7	99%	6%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	20.0	18.7	94%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	190801-52	190801-53	190801-54	190801-55	190801-56	190801-57
Tetra-chloro-meta-xylene	50-150	98%	111%	107%	109%	112%	100%	92%
Decachlorobiphenyl	50-150	87%	86%	77%	79%	77%	84%	82%

Surrogate Recovery	%REC							
Sample I.D.	190801-58	190801-59	190801-60	190801-61	190801-62	190801-63	190801-64	190801-65
Tetra-chloro-meta-xylene	107%	94%	92%	107%	93%	96%	103%	87%
Decachlorobiphenyl	79%	81%	79%	75%	81%	85%	86%	83%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190801-66	190801-67	190801-68	190801-69	190801-70	190801-71
Tetra-chloro-meta-xylene	117%	91%	100%	105%	93%	99%
Decachlorobiphenyl	71%	83%	71%	74%	82%	76%

S.R. = Sample Result

* = Surrogate fail due to matrix interference (If Marked)

spk conc = Spike Concentration

Note: LCS, MS, MSD are in control therefore results are in control.

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: onyFinal Reviewer: cm

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Alta Environmental**

3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807

Tel: (562) 495-5777 E-Mail: Jonathan.Barkman@Altaenviron.com

PROJECT: **Malibu HS**

DATE RECEIVED: 08/01/19

DATE SAMPLED: 08/01/19

DATE EXTRACTED: 08/02-03/19

MATRIX: SOLID(WIPE)

DATE ANALYZED: 08/06/19

REPORT TO: MR. JONATHAN BARKMAN

DATE REPORTED: 08/07/19

PCBs ANALYSIS

METHOD: EPA 3540C/8082; PAGE 2 OF 3

UNITS: uG/100CM² = MICROGRAM PER 100 SQUARE CENTIMETERS

SAMPLE I.D.	LAB I.D.	PCB- 1016	PCB- 1221	PCB- 1232	PCB- 1242	PCB- 1248	PCB- 1254	PCB- 1260	TOTAL PCBs*	DF
0801-W19	190801-72	ND	1							
0801-W20	190801-73	ND	ND	ND	ND	ND	0.223	ND	0.223	1
0801-W21	190801-74	ND	ND	ND	ND	ND	0.177	ND	0.177	1
0801-W22	190801-75	ND	1							
0801-W23	190801-76	ND	1							
0801-W24	190801-77	ND	1							
0801-W25	190801-78	ND	1							
0801-QCW	190801-79	ND	1							
<u>080119-D-</u>										
101A-1	190801-80	ND	1							
101A-2	190801-81	ND	ND	ND	ND	ND	0.124	ND	0.124	1
101A-3	190801-82	ND	1							
101B-1	190801-83	ND	1							
101B-2	190801-84	ND	1							
101B-3	190801-85	ND	1							
<u>080119-I-</u>										
402A-1	190801-86	ND	1							
402B-1	190801-87	ND	1							
402B-2	190801-88	ND	1							
402B-3	190801-89	ND	1							
402C-1	190801-90	ND	1							
402C-2	190801-91	ND	1							
<u>Method Blank</u>		ND	1							
PQL		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

COMMENTS:

PQL = Practical Quantitation Limit

DF = Dilution Factor

Actual Detection Limit = PQL X DF

ND = Non-Detected or Below the Actual Detection Limit

* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260

Data Reviewed and Approved by:
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

EPA 8082 QA/QC Report

Matrix:

Wipe

Date Analyzed:

8/6/2019

Unit:

ug / 100 cm²

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.:

190806-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	20.0	18.8	94%	18.8	94%	0%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	20.0	18.5	92%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	190801-72	190801-73	190801-74	190801-75	190801-76	190801-77
Tetra-chloro-meta-xylene	50-150	95%	92%	95%	93%	73%	90%	91%
Decachlorobiphenyl	50-150	79%	75%	75%	78%	65%	77%	71%

Surrogate Recovery	%REC							
Sample I.D.	190801-78	190801-79	190801-80	190801-81	190801-82	190801-83	190801-84	190801-85
Tetra-chloro-meta-xylene	87%	84%	88%	90%	35%*	35%*	81%	90%
Decachlorobiphenyl	78%	75%	77%	76%	28%*	29%*	78%	77%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190801-86	190801-87	190801-88	190801-89	190801-90	190801-91
Tetra-chloro-meta-xylene	87%	84%	86%	93%	12%*	87%
Decachlorobiphenyl	80%	77%	76%	87%	10%*	78%

S.R. = Sample Result

* = Surrogate fail due to matrix interference (If Marked)

spk conc = Spike Concentration

Note: LCS, MS, MSD are in control therefore results are in control.

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: Ay

Final Reviewer:

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Alta Environmental**
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 E-Mail: Jonathan.Barkman@Altaenviron.com

PROJECT: **Malibu HS** DATE RECEIVED: 08/01/19
DATE SAMPLED: 08/01/19 DATE EXTRACTED: 08/02-03/19
MATRIX: SOLID(WIPE) DATE ANALYZED: 08/06/19
REPORT TO: MR. JONATHAN BARKMAN DATE REPORTED: 08/07/19

PCBs ANALYSIS

METHOD: EPA 3540C/8082; PAGE 3 OF 3

UNITS: uG/100CM² = MICROGRAM PER 100 SQUARE CENTIMETERS

SAMPLE I.D.	LAB I.D.	PCB- 1016	PCB- 1221	PCB- 1232	PCB- 1242	PCB- 1248	PCB- 1254	PCB- 1260	TOTAL PCBs*	DF
<u>080119-I-</u>										
<u>402C-3</u>	190801-92	ND	ND	ND	ND	ND	0.100	ND	0.100	1
<u>080119-D-</u>										
<u>202-1</u>	190801-93	ND	1							
<u>202-2</u>	190801-94	ND	1							
<u>202-3</u>	190801-95	ND	1							
<u>206-1</u>	190801-96	ND	1							
<u>206-2</u>	190801-97	ND	1							
<u>206-3</u>	190801-98	ND	1							
<u>208-1</u>	190801-99	ND	1							
<u>208-2</u>	190801-100	ND	1							
<u>208-3</u>	190801-101	ND	1							
<u>210-1</u>	190801-102	ND	1							
<u>210-2</u>	190801-103	ND	1							
<u>210-3</u>	190801-104	ND	1							
<u>Method Blank</u>		ND	1							
PQL		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

COMMENTS:

PQL = Practical Quantitation Limit

DF = Dilution Factor

Actual Detection Limit = PQL X DF

ND = Non-Detected or Below the Actual Detection Limit

* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260

Data Reviewed and Approved by: JMB
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

EPA 8082 QA/QC Report

Matrix: Wipe
Unit: ug / 100 cm²

Date Analyzed: 8/6/2019

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 190806-LCS3/4

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	20.0	19.8	99%	23.1	115%	15%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	20.0	18.7	93%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	190801-92	190801-93	190801-94	190801-95	190801-96	190801-97
Tetra-chloro-meta-xylene	50-150	100%	86%	90%	85%	100%	99%	92%
Decachlorobiphenyl	50-150	89%	81%	78%	76%	70%	84%	86%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190801-98	190801-99	190801-100	190801-101	190801-102	190801-103	190801-104	
Tetra-chloro-meta-xylene	96%	83%	94%	83%	106%	89%	95%	
Decachlorobiphenyl	85%	74%	77%	74%	77%	83%	84%	

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tetra-chloro-meta-xylene						
Decachlorobiphenyl						

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: AT

Final Reviewer: Q

* = Surrogate fail due to matrix interference (If Marked)

Note: LCS, MS, MSD are in control therefore results are in control.

Enviro-Chem, Inc. Laboratories

1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

Misc./PO#	<u>SOXHLET</u>
Turnaround Time	<input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 1 Week (Standard) <input type="checkbox"/> Other: _____
Preservation	<u>2888</u>

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	PRESERVATION	MATRIX	NO. OF CONTAINERS	TEMPERATURE	PRESERVATION	COMMENTS
0801-w1	190801-54	8/1/19	1008	wipe	1	208	ice	x	
0801-w2	-55	8/1/19	1013	wipe	1	197	ice	x	
0801-w3	-56	8/1/19	1020	wipe	1	198	ice	x	
0801-w4	-57	8/1/19	1025	wipe	1	198	ice	x	
0801-w5	-58	8/1/19	1032	wipe	1	198	ice	x	
0801-w6	-59	8/1/19	1035	wipe	1	198	ice	x	
0801-w7	-60	8/1/19	1040	wipe	1	198	ice	x	
0801-w8	-61	8/1/19	1043	wipe	1	198	ice	x	
0801-w9	-62	8/1/19	1047	wipe	1	198	ice	x	
0801-w10	-63	8/1/19	1051	wipe	1	198	ice	x	
0801-w11	-64	8/1/19	1100	wipe	1	198	ice	x	
0801-w12	-65	8/1/19	1104	wipe	1	198	ice	x	
0801-w13	-66	8/1/19	1115	wipe	1	198	ice	x	
0801-w14	-67	8/1/19	1118	wipe	1	198	ice	x	
0801-w15	-68	8/1/19	1122	wipe	1	198	ice	x	

Company Name:

ALTA Environmental

Address: 3777 Long Beach Blvd, Annex Bldg

City/State/Zip: Long Beach CA 90807

Received by: *Jesse*Received by: *Jesse*

Project Contact:

Jonathan Barkman

Tel:

Fax:

Date & Time:

Sampler's Signature:

Jesse

Project Name/ID:

Mr. 1014 145

Instructions for Sample Storage After Analysis.

 Dispose of Return to Client Store (30 Days) Other:**CHAIN OF CUSTODY RECORD**

WHITE WITH SAMPLE • YELLOW TO CLIENT

Date: 8/1/19Page 1 of 4

Enviro-Chem, Inc. Laboratories

1214 E. Lexington Avenue,
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

SAMPLE ID	LAB ID	DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required		Comments
								Wipe	Ice	
0801-w16	190801-69	8/1/19	1140	wipe	1			X	X	
0801-w17	-76	8/1/19	1148	wipe	1			X	X	
0801-w18	-71	8/1/19	1150	wipe	1			X	X	
0801-w19	-72	8/1/19	1154	wipe	1			X	X	
0801-w20	-73	8/1/19	1158	wipe	1			X	X	
0801-w21	-74	8/1/19	1202	wipe	1			X	X	
0801-w22	-75	8/1/19	1208	wipe	1			X	X	
0801-w23	-76	8/1/19	1222	wipe	1			X	X	
0801-w24	-77	8/1/19	1215	wipe	1			X	X	
0801-w25	-78	8/1/19	1218	wipe	1			X	X	
0801-OCW	-79	8/1/19	1220	wipe	1			X	X	
080119-D-101A-1	-80	8/1/19	1105	wipe	1			X	X	
080119-D-101A-2	-81	8/1/19	1107	wipe	1			X	X	
080119-D-101A-3	-82	8/1/19	1109	wipe	1			X	X	
080119-D-101B-1	-83	8/1/19	1115	wipe	1			X	X	
Company Name:	ALTA Environmental	Project Contact:	Jennifer Balkman	Sampler's Signature:	<i>Jen</i>	Project Name/ID:	Ma16a 145	Instructions for Sample Storage After Analysis:		
Address:	3717 Long Beach Blvd, Annex Bldg	Tel:				Date & Time:		<input type="checkbox"/> Dispose of	<input type="checkbox"/> Return to Client	<input type="checkbox"/> Store (30 Days)
City/State/Zip:	Long Beach CA 90807	Fax/Email:				Date & Time:		<input type="checkbox"/> Other:		
Relinquished by:	<i>Joe</i>	Received by:	<i>John</i>	Received by:	<i>John</i>	Date & Time:				
Relinquished by:	<i>Joe</i>	Received by:	<i>John</i>	Received by:	<i>John</i>	Date & Time:				
Relinquished by:	<i>Joe</i>	Received by:	<i>John</i>	Received by:	<i>John</i>	Date & Time:				

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE • YELLOW TO CLIENT

Date: 8/1/19Page 2 of 5

Enviro-Chem, Inc. Laboratories

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-PHS ELAP CERTIFICATE #1555

SCOTT

Misc./PO#

Enviro-Chem, Inc. Laboratories		Turnaround Time	
1214 E. Lexington Avenue,	Pomona, CA 91766	0 Same Day	
Tel: (909) 590-5905 Fax: (909) 590-5907		0 24 Hours	
CA-DHS ELAP CERTIFICATE #1555		0 48 Hours	
		0 72 Hours	
		0 1 Week (Standard)	
		Other:	
		PRESERVATION	
SAMPLE ID	LAB ID	SAMPLING DATE	TIME
MATRIX			
Analysis Required			
COMMENTS			
080119-D-1018-2	-84	8/1/19	11:18
080119-D-1018-3	-85	8/1/19	11:20
080119-I-402A-1	-86	8/1/19	11:35
080119-I-402B-1	-87	8/1/19	11:37
080119-I-402B-2	-88	8/1/19	11:40
080119-I-402B-3	-89	8/1/19	11:43
080119-I-402C-1	-90	8/1/19	11:45
080119-I-402C-2	-91	8/1/19	11:48
080119-I-402C-3	-92	8/1/19	11:50
080119-O-202-1	-93	8/1/19	10:20
080119-O-202-2	-94	8/1/19	10:25
080119-O-202-3	-95	8/1/19	10:30
080119-O-206-1	-96	8/1/19	10:35
080119-O-206-2	-97	8/1/19	10:37
080119-O-206-3	-98	8/1/19	10:39
Company Name: ALTA Environmental		Project Contact: Christopher Baskaran	
Address: 3717 Long Beach Blvd, Annex Bldg		Tel: Fax/Email: 70507	
City/State/Zip: Long Beach CA 90807		Received by: Joseph	
Relinquished by: J. B.		Received by: Date & Time: 8/1/19 10:52	
Relinquished by: J.		Received by: Date & Time:	
Relinquished by:		Received by: Date & Time:	

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPIE: YELL OWN TO CLIENT

