



FIRST QUARTER 2019 – AIR & WIPE SAMPLING

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

Prepared for:

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

Project No.: SMSD-18-8201
Reported Date: February 19, 2019

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

EXECUTIVE SUMMARY

On behalf of the Santa Monica-Malibu Unified School District (District), Alta Environmental (Alta) has prepared this report summarizing the first quarter 2019 (1Q2019) sampling activities completed for select buildings within the Malibu High School campus, located at 30215 Morning View Drive in Malibu, California. The sampling activities were conducted to investigate the potential presence of detectable polychlorinated biphenyl (PCB) compounds in ambient air within Buildings D, H and J.

Concentrations of PCBs were not detected in any of the air samples collected during this investigation. Concentrations of PCBs were not detected in any of the analyzed wipe samples, with the exception of two samples collected from Building J - Room 772 and Building J – Room 773. Concentrations of PCBs were not detected above screening levels in any of the samples collected and analyzed during the 1Q2019 sampling event.

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REPORTED: February 19, 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: Post Woolsey Fire PCBs Air and Wipe Report
Building D, H and J
Malibu High School
30215 Morning View Drive
Malibu, CA, 90265

1 PROJECT BACKGROUND

The Santa Monica-Malibu Unified School District (District) retained Alta Environmental (Alta) to conduct quarterly 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 quarter 2019 (1Q2019) 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 10 air samples (including 2 field-blank samples) and a total of 26 wipe samples (including 1 duplicate and 1 field-blank sample) from 3 high-use classrooms.

4 METHODOLOGY

Prior to conducting air and wipe sampling, Alta representatives inspected the sampling areas for visual indications of significant heat impacts to building materials related to the Woolsey Fire, such as warping of door structures and window caulking. Indications of warping were not observed at the time of our inspection.

4.1 Air Sampling

Alta deployed air sampling units at various locations within Buildings D (1 sample), H (5 samples) and J (2 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 using EPA Method TO-10A.

4.2 Wipe Sampling

Alta conducted wipe sampling at various locations within Buildings D (3 samples), H (15 samples) and J (7 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.

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 ($\mu\text{g}/100\text{ cm}^2$)</u>
Building J, Room 772 Vinyl Floor	010319-MHS-BldgJ-RM772-NK01	0.282
Building J, Room 772 Desk Surface, Plastic	010319-MHS-BldgJ-RM772-NK03	0.146
Building J, Room 773 Wood Floor	010319-MHS-BldgJ-RM773-NK04	0.192
Building J, Room 773 Desk Surface, Laminate	010319-MHS-BldgJ-RM773-NK07D	0.152

6 QUALITY CONTROL

Quality control (QC) duplicate samples were collected during this investigation as methods to evaluate sampling and analytical precision. Alta collected one duplicate sample and one field-blank sample 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 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 PCBs were not detected above laboratory reporting limits in any of the air samples collected, though low concentrations were detected in four of the wipe samples analyzed. The detected wipe sample PCB concentrations were reported as below the screening level.

8 ASSUMPTIONS AND LIMITATIONS

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

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

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

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

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

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

9 SIGNATORY

Respectfully submitted by:

Alta Environmental



Jonathan Barkman
Project Manager

Reviewed:

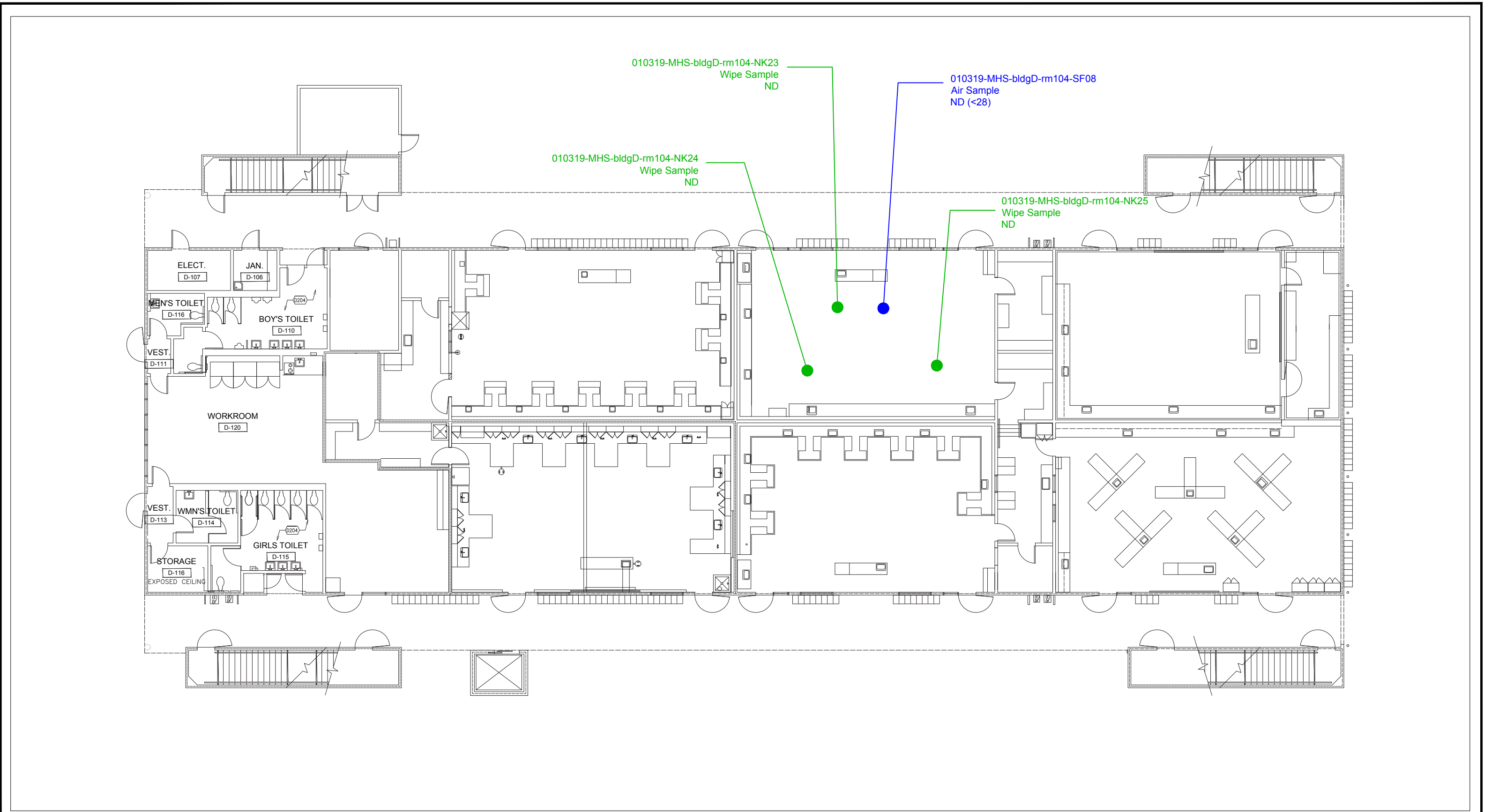
Alta Environmental

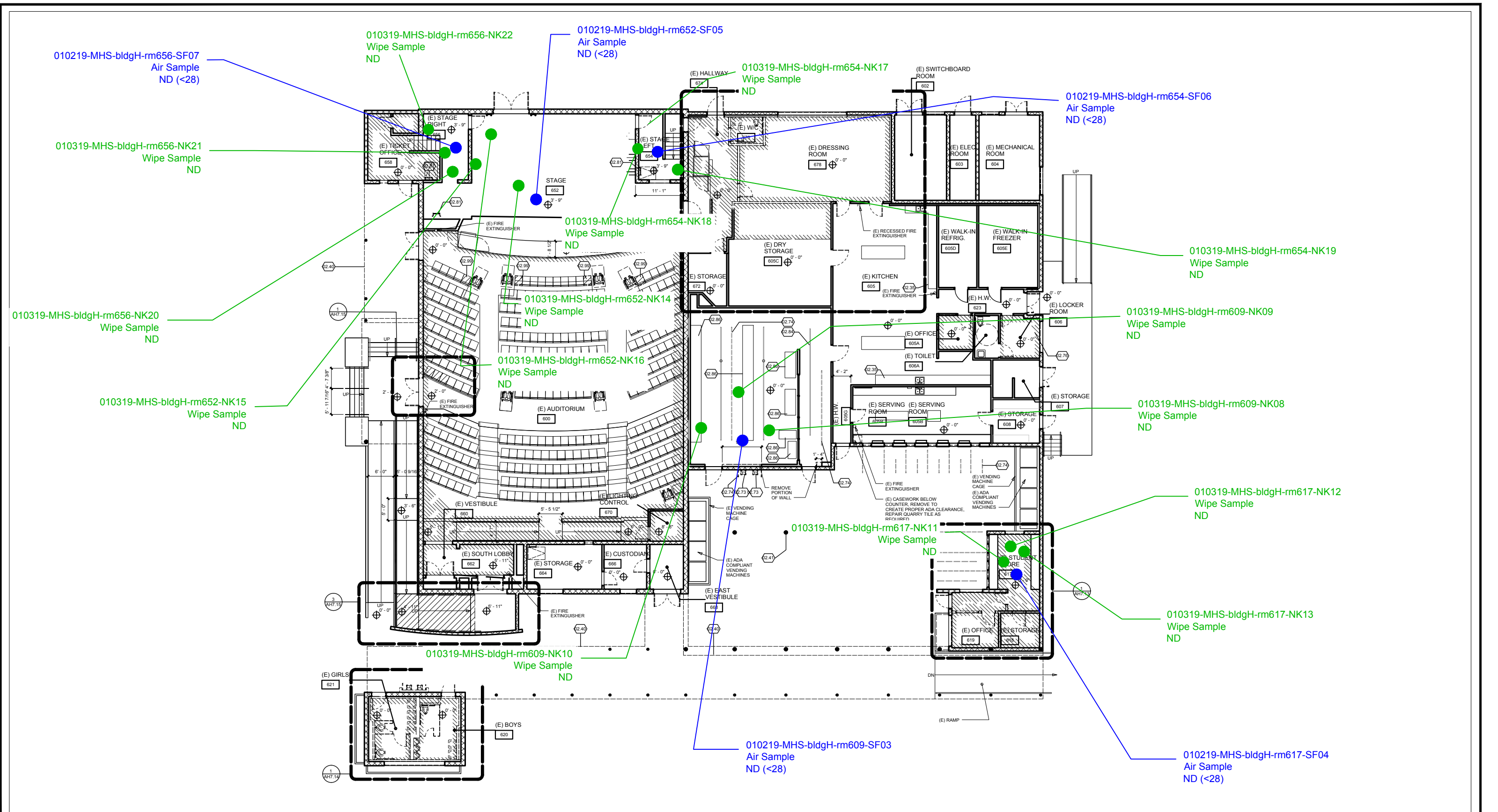


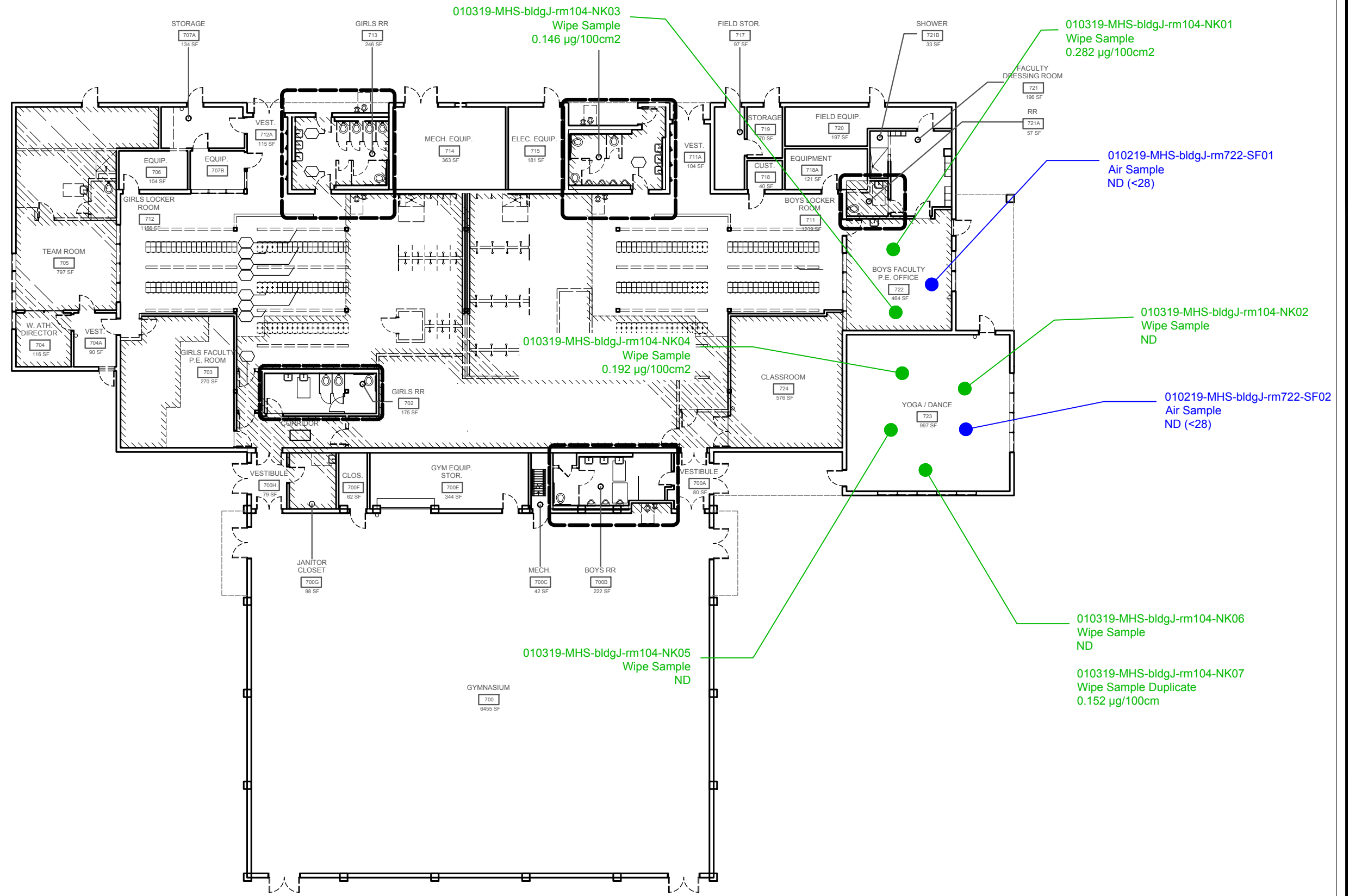
David R. Schack
Vice President, Building Sciences

Appendix A

Figures







Appendix B

Sample Inventories

MHS Quarterly Sampling

CLIENT: SMMUSD
PROJECT NO: SMSD-18-8201
PROJECT: Malibu High School Quarterly Sampling - 1Q2019
Date: 12/02/18 - 12/04/18

Building	Room Placard ID	Floor Plan Room ID	Room Description	Sampling Date ^[a]	Sample ID	Total PCBs (ng/m ³)
D (100/200, Mako Shark)	104	104	Classroom	1/3/2019	010319-MHS-bldgD-rm104-SF08	ND (<28)
H (Cafeteria/Auditorium)	609	609	Serving Area	1/2/2019	010219-MHS-bldgH-rm609-SF03	ND (<28)
	617	617	Student Store	1/3/2019	010319-MHS-bldgH-rm617-SF04	ND (<28)
	652	652	Stage	1/2/2019	010219-MHS-bldgH-rm652-SF05	ND (<28)
	654	654	Stage Side Area	1/2/2019	010219-MHS-bldgH-rm654-SF06	ND (<28)
	656	656	E stage right	1/2/2019	010219-MHS-bldgH-rm656-SF07	ND (<28)
J (700, Old Gymnasium)	722	722	Boys Faculty P.E. Office	1/3/2019	010319-MHS-bldgJ-rm722-SF01	ND (<28)
	723	723	Yoga/Dance	1/2/2019	010219-MHS-bldgJ-rm723-SF02	ND (<28)
Field Blanks				1/2/2019	010219-Blank	ND
				1/3/2019	010319-Blank	ND

Notes:

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

Abbreviations:

ng/m³ = nanograms per cubic meter

MHS = Malibu High School

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

USEPA = United States Environmental Protection Agency

Summary of Post Fire Wipe Sampling Results

CLIENT: SMMUSD
PROJECT: SMSD-18-
PROJECT: Malibu High School Quarterly Sampling
Date: 01/03/19

Building	Room Placard ID	Floor Plan Room ID	Room Description	Sample Location	Surface Description	Sample Date	Sample ID	Total PCB Surface Wipe Concentration (µg/100cm ²)
D (100/200, Mako Shark)	104	104	Classroom	Floor	Vinyl floor tile	1/3/2019	010319-MHS-bldgD-rm104-NK23	ND
				Desk	Laminate		010319-MHS-bldgD-rm104-NK24	ND
				Desk	Laminate		010319-MHS-bldgD-rm104-NK25	ND
H (Cafeteria/ Auditorium)	Serving area	609	Serving area	Floor	Floor tile	1/3/2019	010319-MHS-bldgH-rm609-NK08	ND
				Serving table	Stainless steel		010319-MHS-bldgH-rm609-NK09	ND
				Freezer top	Stainless steel + wood		010319-MHS-bldgH-rm609-NK10	ND
	Student store	617	Student store	Shelf	Painted wood	1/3/2019	010319-MHS-bldgH-rm617-NK11	ND
				Desk	Laminate		010319-MHS-bldgH-rm617-NK12	ND
				File cabinet	Metal		010319-MHS-bldgH-rm617-NK13	ND
	Stage	652	Stage	Floor	Painted wood	1/3/2019	010319-MHS-bldgH-rm652-NK14	ND
				Wall	Painted brick		010319-MHS-bldgH-rm652-NK15	ND
				Chair	Plastic		010319-MHS-bldgH-rm652-NK16	ND
	Stage side area*	654	Stage side area*	Floor	Painted wood	1/3/2019	010319-MHS-bldgH-rm654-NK17	ND
				Mantle	Laminated wood		010319-MHS-bldgH-rm654-NK18	ND
				Wall	Painted stucco		010319-MHS-bldgH-rm654-NK19	ND
	E stage right	656	E stage right	Floor	Painted wood	1/3/2019	010319-MHS-bldgH-rm656-NK20	ND
				Mantle	Connecting wall		010319-MHS-bldgH-rm656-NK21	ND
				Wall	Painted brick		010319-MHS-bldgH-rm656-NK22	ND
J (700,Old Gymnasium)	722	722	Boys Faculty P.E. office	Floor	Vinyl floor tile	1/3/2019	010319-MHS-bldgJ-rm722-NK01	0.282
				Desk	Laminate		010319-MHS-bldgJ-rm722-NK02	ND
				Desk	Plastic		010319-MHS-bldgJ-rm722-NK03	0.146
	723	723	Yoga/Dance	Floor	Wood	1/3/2019	010319-MHS-bldgJ-rm723-NK04	0.192
				Desk	Laminate		010319-MHS-bldgJ-rm723-NK05	ND
				Desk	Laminate		010319-MHS-bldgJ-rm723-NK06	ND
				Desk (Duplicate)	Laminate		010319-MHS-bldgJ-rm723-NK07D	0.152
Field Blank						1/3/2019	010319-Blank	ND

Notes:

- Duplicate samples were collected adjacent to the primary sample.
- Sample ID Key: 120218 (Date) - MHS (School ID) - B200 (Building) - R201 (Room ID) - A1 (Sample Code)

Abbreviations:

$\mu/100\text{cm}^2$ = microgram per 100 square centimeters
MHS = Malibu High School

ND = not detected above laboratory reporting limit
PCB = polychlorinated biphenyl

Appendix C

Laboratory Reports



ANALYTICAL REPORT

Report Date: January 09, 2019

Scott Fan
ALTA Environmental
3777 Long Beach Blvd.
Long Beach, CA 90807

Phone: (562) 495-5777

E-mail: Scott.Fan@altaenviron.com

Workorder: **34-1900505**

Project ID: Malibu High School

Purchase Order: NA

Project Manager Paul E. Pope

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
010319-MHS-BldgJ-Rm722-SF01	1900505001	01/03/19	01/05/19	Malibu High School
010219-MHS-BldgJ-Rm723-SF02	1900505002	01/02/19	01/05/19	Malibu High School
010219-MHS-BldgH-Rm609-SF03	1900505003	01/02/19	01/05/19	Malibu High School
010319-MHS-BldgH-Rm617-SF04	1900505004	01/03/19	01/05/19	Malibu High School
010219-MHS-BldgH-Rm652-SF05	1900505005	01/02/19	01/05/19	Malibu High School
010219-MHS-BldgH-Rm654-SF06	1900505006	01/02/19	01/05/19	Malibu High School
010219-MHS-BldgH-Rm656-SF07	1900505007	01/02/19	01/05/19	Malibu High School
010319-MHS-BldgD-Rm104-SF08	1900505008	01/03/19	01/05/19	Malibu High School
010219-Blank	1900505009	01/02/19	01/05/19	Malibu High School
010319-Blank	1900505010	01/03/19	01/05/19	Malibu High School

ADDRESS 960 West LeVoy Drive, Salt Lake City, Utah, 84123 USA | PHONE +1 801 266 7700 | FAX +1 801 268 9992

ALS GROUP USA, CORP. An ALS Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



ANALYTICAL REPORT

Workorder: **34-1900505**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 010319-MHS-BldgJ-Rm722-SF01		Sampling Site: Malibu High School		Collected: 01/03/2019	
Lab ID: 1900505001		Media: PUF Tube		Received: 01/05/2019	
Matrix: Air		Sampling Parameter: Air Volume 7200 L			
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/28244 (HBN: 230661)		Initial: 1 filter	Batch: EGC/7631 (HBN: 230790)		Percent Solid: NA
Prepared: 01/07/2019		Final: 10 mL	Analyzed: 01/08/2019 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: 010219-MHS-BldgJ-Rm723-SF02		Sampling Site: Malibu High School		Collected: 01/02/2019	
Lab ID: 1900505002		Media: PUF Tube		Received: 01/05/2019	
Matrix: Air		Sampling Parameter: Air Volume 7192.8 L			
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/28244 (HBN: 230661)		Initial: 1 filter	Batch: EGC/7631 (HBN: 230790)		Percent Solid: NA
Prepared: 01/07/2019		Final: 10 mL	Analyzed: 01/08/2019 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: **34-1900505**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 010219-MHS-BldgH-Rm609-SF03		Sampling Site: Malibu High School		Collected: 01/02/2019	
Lab ID: 1900505003		Media: PUF Tube		Received: 01/05/2019	
Matrix: Air		Sampling Parameter: Air Volume 7200 L			
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/28244 (HBN: 230661)		Initial: 1 filter	Batch: EGC/7631 (HBN: 230790)		Percent Solid: NA
Prepared: 01/07/2019		Final: 10 mL	Analyzed: 01/08/2019 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: 010319-MHS-BldgH-Rm617-SF04		Sampling Site: Malibu High School		Collected: 01/03/2019	
Lab ID: 1900505004		Media: PUF Tube		Received: 01/05/2019	
Matrix: Air		Sampling Parameter: Air Volume 7200 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/28244 (HBN: 230661)		Initial: 1 filter	Batch: EGC/7631 (HBN: 230790)		Percent Solid: NA
Prepared: 01/07/2019		Final: 10 mL	Analyzed: 01/08/2019 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: **34-1900505**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 010219-MHS-BldgH-Rm652-SF05		Sampling Site: Malibu High School		Collected: 01/02/2019	
Lab ID: 1900505005		Media: PUF Tube		Received: 01/05/2019	
Matrix: Air		Sampling Parameter: Air Volume 7128 L			
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/28244 (HBN: 230661)		Initial: 1 filter	Batch: EGC/7631 (HBN: 230790)		Percent Solid: NA
Prepared: 01/07/2019		Final: 10 mL	Analyzed: 01/08/2019 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: 010219-MHS-BldgH-Rm654-SF06		Sampling Site: Malibu High School		Collected: 01/02/2019	
Lab ID: 1900505006		Media: PUF Tube		Received: 01/05/2019	
Matrix: Air		Sampling Parameter: Air Volume 7128 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/28244 (HBN: 230661)		Initial: 1 filter	Batch: EGC/7631 (HBN: 230790)		Percent Solid: NA
Prepared: 01/07/2019		Final: 10 mL	Analyzed: 01/08/2019 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: **34-1900505**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 010219-MHS-BldgH-Rm656-SF07		Sampling Site: Malibu High School		Collected: 01/02/2019	
Lab ID: 1900505007		Media: PUF Tube		Received: 01/05/2019	
Matrix: Air		Sampling Parameter: Air Volume 7200 L			
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/28244 (HBN: 230661)		Initial: 1 filter	Batch: EGC/7631 (HBN: 230790)		Percent Solid: NA
Prepared: 01/07/2019		Final: 10 mL	Analyzed: 01/08/2019 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: 010319-MHS-BldgD-Rm104-SF08		Sampling Site: Malibu High School		Collected: 01/03/2019	
Lab ID: 1900505008		Media: PUF Tube		Received: 01/05/2019	
Matrix: Air		Sampling Parameter: Air Volume 7207.2 L			
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/28244 (HBN: 230661)		Initial: 1 filter	Batch: EGC/7631 (HBN: 230790)		Percent Solid: NA
Prepared: 01/07/2019		Final: 10 mL	Analyzed: 01/08/2019 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: **34-1900505**

Client: ALTA Environmental

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 010219-Blank		Sampling Site: Malibu High School		Collected: 01/02/2019	
Lab ID: 1900505009		Media: PUF Tube		Received: 01/05/2019	
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/28244 (HBN: 230661)		Initial: 1 filter	Batch: EGC/7631 (HBN: 230790)		Percent Solid: NA
Prepared: 01/07/2019		Final: 10 mL	Analyzed: 01/08/2019 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	

Sample ID: 010319-Blank		Sampling Site: Malibu High School		Collected: 01/03/2019	
Lab ID: 1900505010		Media: PUF Tube		Received: 01/05/2019	
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/28244 (HBN: 230661)		Initial: 1 filter	Batch: EGC/7631 (HBN: 230790)		Percent Solid: NA
Prepared: 01/07/2019		Final: 10 mL	Analyzed: 01/08/2019 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 01/09/2019 10:47	/S/ Lyle Edwards 01/09/2019 13:41



ANALYTICAL REPORT

Workorder: 34-1900505

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: alslt.lab@ALSGlobal.com
Web: www.alssl.com

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.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

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	Certificate Number	Website
Environmental	PJLA (DoD ELAP)		
	Utah (TNI)		
	Nevada		
	Oklahoma		
	Iowa		



ANALYTICAL REPORT

Workorder: 34-1900505

Client: ALTA Environmental

Project Manager: Paul E. Pope

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.

< 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: January 8, 2019

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

Project: **Malibu High School Quarterly Sampling SMSD-18-8201**
Lab I.D.: **190104-11 through -36**

Dear Mr. Schack:

The **analytical results** for the wipe samples, received by our laboratory on January 4, 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

LABORATORY REPORT

CUSTOMER: Alta Environmental
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 E-Mail: David.Schack@altaenviron.com
PROJECT: Malibu High School Quarterly Sampling SMSD-18-8201
DATE RECEIVED: 01/04/19
DATE SAMPLED: 01/03/19 DATE EXTRACTED: 01/04&07/19
MATRIX: WIPE DATE ANALYZED: 01/07/19
REPORT TO: MR. DAVID SCHACK DATE REPORTED: 01/08/19

PCBs ANALYSIS

METHOD: EPA 3540C/8082

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>010319-MHS-Bldg J-</u>										
RM 772-NK01	190104-11	ND	ND	ND	ND	ND	0.282	ND	0.282	1
RM 772-NK02	190104-12	ND	ND	ND	ND	ND	ND	ND	ND	1
RM 772-NK03	190104-13	ND	ND	ND	ND	ND	0.146	ND	0.146	1
<u>010319-MHS-Bldg J-</u>										
RM 723-NK04	190104-14	ND	ND	ND	ND	ND	0.192	ND	0.192	1
RM 723-NK05	190104-15	ND	ND	ND	ND	ND	ND	ND	ND	1
RM 723-NK06	190104-16	ND	ND	ND	ND	ND	ND	ND	ND	1
RM 723-NK07D	190104-17	ND	ND	ND	ND	ND	0.152	ND	0.152	1
<u>010319-MHS-Bldg H-</u>										
RM 609-NK08	190104-18	ND	ND	ND	ND	ND	ND	ND	ND	1
RM 609-NK09	190104-19	ND	ND	ND	ND	ND	ND	ND	ND	1
RM 609-NK10	190104-20	ND	ND	ND	ND	ND	ND	ND	ND	1
<u>010319-MHS-Bldg H-</u>										
RM 617-NK11	190104-21	ND	ND	ND	ND	ND	ND	ND	ND	1
RM 617-NK12	190104-22	ND	ND	ND	ND	ND	ND	ND	ND	1
RM 617-NK13	190104-23	ND	ND	ND	ND	ND	ND	ND	ND	1
<u>010319-MHS-Bldg H-</u>										
RM 652-NK14	190104-24	ND	ND	ND	ND	ND	ND	ND	ND	1
RM 652-NK15	190104-25	ND	ND	ND	ND	ND	ND	ND	ND	1
RM 652-NK16	190104-26	ND	ND	ND	ND	ND	ND	ND	ND	1
<u>010319-MHS-Bldg H-</u>										
RM 654-NK17	190104-27	ND	ND	ND	ND	ND	ND	ND	ND	1
RM 654-NK18	190104-28	ND	ND	ND	ND	ND	ND	ND	ND	1
RM 654-NK19	190104-29	ND	ND	ND	ND	ND	ND	ND	ND	1
<u>010319-MHS-Bldg H-</u>										
RM 656-NK20	190104-30	ND	ND	ND	ND	ND	ND	ND	ND	1
<u>Method Blank</u>										
		ND	ND	ND	ND	ND	ND	ND	ND	1
PQL		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	

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**
Unit: **ug / 100 cm²**

Date Analyzed: **1/7/2019**

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

Spiked Sample Lab I.D.: **190107-LCS1/2**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	20.0	16.2	81%	16.4	82%	1%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	20.0	17.1	86%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	190104-11	190104-12	190104-13	190104-14	190104-15	190104-16
Tetra-chloro-meta-xylene	50-150	91%	95%	107%	100%	102%	98%	113%
Decachlorobipneyl	50-150	101%	110%	89%	114%	93%	123%	72%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190104-17	190104-18	190104-19	190104-20	190104-21	190104-22	190104-23	190104-24
Tetra-chloro-meta-xylene	105%	109%	103%	104%	106%	101%	103%	102%
Decachlorobipneyl	78%	103%	119%	119%	96%	128%	120%	117%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190104-25	190104-26	190104-27	190104-28	190104-29	190104-30
Tetra-chloro-meta-xylene	108%	107%	101%	102%	94%	102%
Decachlorobipneyl	92%	132%	108%	89%	95%	100%

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: 

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: David.Schack@altaenviron.com

PROJECT: **Malibu High School Quarterly Sampling SMSD-18-8201**

DATE SAMPLED: 01/03/19 DATE RECEIVED: 01/04/19
MATRIX: WIPE DATE EXTRACTED: 01/04&07/19
REPORT TO: MR. DAVID SCHACK DATE ANALYZED: 01/08/19
DATE REPORTED: 01/08/19

PCBs ANALYSIS**METHOD: EPA 3540C/8082****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
010319-MHS-Bldg H-										
RM656-NK21	190104-31	ND	ND	ND	ND	ND	ND	ND	ND	1
RM656-NK22	190104-32	ND	ND	ND	ND	ND	ND	ND	ND	1
010319-MHS-Bldg D-										
RM104-NK23	190104-33	ND	ND	ND	ND	ND	ND	ND	ND	1
RM104-NK24	190104-34	ND	ND	ND	ND	ND	ND	ND	ND	1
RM104-NK25	190104-35	ND	ND	ND	ND	ND	ND	ND	ND	1
010319-Blank	190104-36	ND	ND	ND	ND	ND	ND	ND	ND	1
Method Blank										
		ND	ND	ND	ND	ND	ND	ND	ND	1
PQL		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	

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**
Unit: **ug / 100 cm²**

Date Analyzed: **1/8/2019**

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

Spiked Sample Lab I.D.: **190107-LCS3/4**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	20.0	17.6	88%	15.8	79%	11%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	20.0	20.1	100%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	190104-31	190104-32	190104-33	190104-34	190104-35	190104-36
Tetra-chloro-meta-xylene	50-150	112%	109%	106%	79%	99%	100%	92%
Decachlorobipneyl	50-150	123%	89%	100%	87%	121%	112%	120%

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

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

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: 

Final Reviewer: 

Enviro-Chem, Inc. Laboratories

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

Turnaround Time
☐ Same Day
☐ 24 Hours
☒ 48 Hours
☐ 72 Hours
☐ 1 Week (Standard)
 Other:

Turnaround Time		Matrix		No. of Containers		TEMPERATURE		PRESERVATION		Analysis Required		Misc./PO#	
SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX	NO. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required		Misc./PO#			
010319-MHS-Bids J - Rm 722 - NK01	190104-11	01/03/19		WATER	1		100	X					
- NK02	-12							X					
- NK03	-13							X					
010319-MHS-Bids J - Rm 723 - NK04	-14							X					
- NK05	-15							X					
- NK06	-16							X					
010319-MHS-Bids J - Rm 604 - NK07	-17							X					
- NK08	-18							X					
- NK09	-19							X					
- NK10	-20							X					
010319-MHS-Bids J - Rm 617 - NK11	-21							X					
- NK12	-22							X					
- NK13	-23							X					

Company Name: Atta Environmental		Project Contact: David Sanchez / Scott N.		Sampler's Signature: <i>[Signature]</i>	
Address: 3777 Long Beach Blvd.		Tel:		Project Name/ID: Merliba High School	
City/State/Zip: Long Beach CA 90807		Fax/Email:		Date & Time: 1/4/18 1132	
Relinquished by: <i>[Signature]</i>		Received by:		Instructions for Sample Storage After Analysis:	
Relinquished by:		Received by:		<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days)	
Relinquished by:		Received by:		<input type="checkbox"/> Other:	

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE - YELLOW TO CLIENT

Enviro-Chem, Inc. Laboratories

1214 E. Lexington Avenue,
Pomona, CA 91766

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

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- 0 Same Day
- 0 24 Hours
- 0 48 Hours
- 0 72 Hours
- 0 1 Week (Standard)
- Other:

SAMPLE ID		LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS	Misc./PO#
010319-MHS-Bldg H -RM 652-NK17		190104-74	01/03/17		LC-8	1		ice	X						
I - NK15		-75				1			X						
I - NK16		-76				1			X						
010319-MHS-Bldg H -RM 654-NK17		65-77				1			X						
I - NF16		65-78				1			X						
I - NK17		65-79				1			X						
010319-MHS-Bldg H -RM 656-NK18		65-80				1			X						
I - NK18		65-81				1			X						
010319-MHS-Bldg D -RM 101-NK21		83-82				1			X						
I - NK22		83-83				1			X						
I - NK23		83-84				1			X						
I - NK24		83-85				1			X						
010319-blank		-86				1			X						

Company Name: **Atta Environmental**

Address: **3777 Ley Buhl Blvd**

City/State/Zip: **Los Berr CA 90607**

Project Contact: **David Throck/Scott N.**

Tel:

Fax/Email:

Sampler's Signature: *[Signature]*

Project Name/ID: **Medi-Tech Health Quarterly Sampling SMSD 10-8201**

