PCB INSPECTION AND SAMPLING REPORT

Science Building
Santa Monica High School
601 Pico Boulevard
Santa Monica, California 90405

Prepared for:

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

Project No.: SMSD-17-7175

Issued Date: October 27, 2017
Approval Date: November 28, 2017

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 inspection and sampling activities completed at the Science Building of Santa Monica High School (SAMOHI) located at 601 Pico Boulevard in Santa Monica, California. The inspection and sampling activities were conducted prior to the planned building demolition to evaluate building materials for the potential presence of polychlorinated biphenyl compound (PCBs) to characterize demolition debris for off-site disposal. The Science building is scheduled for demolition in the summer of 2018 and located in the northern portion of the SAMOHI campus.

On September 6, 2017, Alta Environmental (Alta) inspected the Building and collected representative samples of bulk building materials identified as potentially impacted by PCBs.

Based on the sampling results, a total PCB concentration in all sampled building materials was reported as less than 50 parts per million (ppm). Therefore, based on the results of the sampling program and in consultation with the SMMUSD, the sampled building materials are categorized as Excluded PCB Product, which is not regulated by US Environmental Protection Agency (US EPA) under the Toxic Substances Control Act (TSCA). Please note that although the PCBs in building material at the Building are not regulated by US EPA, it is Alta's understanding that the demolition contractor will adhere to other regulatory requirements for handling and disposal of identified asbestos-containing materials and lead-based paints.

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REPORTED: Issued, October 27, 2017
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PROJECT NO.: SMSD-17-7175

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

ATTENTION: Mr. Kevin Klaus

REF: PCB Inspection and Sampling Report
Science Building
Santa Monica High School
601 Pico Boulevard
Santa Monica, California 90405

1 INTRODUCTION/BACKGROUND

The Science Building is a two-story classroom building of concrete construction, with interior plaster and drywall walls, suspended ceiling systems and various types of vinyl floor tiles. The District plans to undertake a project to demolish this building in 2018.

The Environmental Protection Agency (EPA) believes that there was a potentially widespread use of PCB-containing building materials in schools and other buildings build or renovated between 1950 and 1979. Historically, PCBs were used as a plasticizing agent for caulking and glazing materials, as additives to paints and floor finishes, as a sealant for heating systems and plumbing, and as insulators in ballast and other electrical equipment. The manufacture and use of PCBs were banned in the United States in 1976, and PCB compounds were phased out between 1978 and 1979. Due to the age of the Building (constructed in 1954), there was the potential for certain building materials to contain PCBs. Therefore, building materials were sampled prior to any building demolition.

2 PURPOSE OF INSPECTION AND SAMPLING

Building materials included in this report were evaluated for PCBs only. A survey of asbestos-containing materials (ACM) and lead-based paint (LBP) has been completed for this building. Results and findings for ACM and LBP are included in a separate document.

The objective of the sampling was to obtain samples from a sufficient number of locations to:

- serve as representative of the variety of potentially PCB-impacted materials;
- draw conclusion on the potential presence of PCB-impact materials;
- determine if a site-specific remediation work plan is required to address materials with ≥50 parts per million (ppm) PCBs prior to undertaking the demolition and disposal of building materials; and
- Categorize each type of building materials for off-site disposal related solely to its PCB content. In general, PCB-impacted materials can be sorted and classified into the following categories:
    - PCB Bulk Product Waste (≥ 50 ppm). According to Environmental Protection Agency (EPA), Memorandum, “PCB Bulk Product Waste Reinterpretation” dated October 24, 2012, building materials “Coated or serviced” with PCB bulk product waste (e.g., caulk, paint, mastic, sealants) at the time of designation for disposal to be managed as a PCB bulk product waste. The reinterpretation document allows for disposal of both PCB Bulk Product Waste and PCB Remediation Waste together as a single waste stream (PCB Bulk Product Waste).

- Excluded PCB Product-all materials containing <50 ppm.

3 SCOPE OF SERVICES

The Santa Monica-Malibu Unified School District (District) retained Alta Environmental (Alta) for the inspection and sampling (Alta proposal dated, July 28, 2017.

The sampling was completed in accordance with the "USEPA Region I Standard Operation Procedures for Sampling Porous Surfaces for Polychlorinated Biphenyl," approved on May 23, 2011, for use by the District.

Alta performed an inspection of the building and documented all visible and accessible suspect PCB-containing materials and prepared an inventory of sampling. Materials, which are applied in a similar manner, had similar characteristic such as size, use, color, age (if available), and texture, were defined as homogeneous materials.

Homogeneous materials were sampled representative of the entire building. If feasible, Alta collected a minimum of three representative random samples of each homogeneous material.

Alta's bulk sampling was completed as follows:

1. A screw razor blade, screwdriver, chisel, or similar tool was used to collect the bulk sample.
2. A polyethylene drop-sheet was placed below the impacted area to capture any dust and debris which may have dislodged during the sample collection.
3. Samples were labeled, packaged, and documented on a chain of custody for shipping to the laboratory.
4. Samples were shipped to the laboratory in a chilled ice chest.
5. Sampled areas were patched using a non-PCBs sealant. The patch area is temporary, intended only to provide a barrier to the exposed sampled substrates.
6. Each sample location was documented using digital photographs.
7. Equipment and tools were decontaminated using a two-step decontamination process. First, all used tools were cleaned using scrub brushes and detergent with de-ionized water base solution. Second, each piece was rinsed using de-ionized water. After the two-step decontamination procedures, the equipment was placed on top of clean paper towels (or equivalent material) and set to dry individually. Each piece of equipment was inspected by Alta for evidence of residual dust and debris.

4 METHODOLOGY

The Actual Detection Limit (DL) used by the laboratory for this project was 1 ppm. In some cases, the DL was raised above 1ppm due to matrix interferences, but it did not exceed ≥ 50 ppm, currently being used as approved by the USEPA to defined PCB Bulk Product Waste.

A total of 66 bulk samples were submitted to and analyzed by Enviro-Chem, a Cal ELAP accredited laboratory (Certificate #1555) located in Pomona, California.

A total of 2 bulk duplicate samples analysis were completed by Enviro-Chem.

A total of 1 split-duplicate sample was analyzed by Environ-Chem. The sample was homogenized, split into two identical samples, and assigned a unique blind selected sample number.

All samples including duplicate and split duplicates were placed in an appropriate glass jar with a Teflon cap. Samples were labeled and packaged in a cooler and kept cool with ice during shipment.

All samples were analyzed in accordance with EPA Method 8082A with Soxhlet Extraction US EPA Method 3540C for Aroclors.

5 RESULTS

All materials sampled during this project were reported as either non-detected (above the laboratory DL) or below 50 parts per million (ppm), therefore, not interpreted to require removal and disposal as PCB Bulk Product Waste.

These materials are further defined in Appendix A of this report.

Refer to Appendix B for laboratory analysis reports and relevant sample analysis information.

6 QUALITY CONTROL

Results of duplicate samples and split duplicate samples were reported consistently within acceptable analytical limits.

Enviro-Chem reported, “all samples were received intact, and accompanying chain of custody.”

Based on review of the QC data associated with the sample analysis, the recovery and precision are within the acceptable limits of the laboratory.

7 CONCLUSIONS

Based on the sampling results, a total PCB concentration in all sampled building materials was reported as less than 50 parts per million (ppm). Therefore, based on the results of the sampling, and in consultation with the SMMUSD, the sampled building material are categorized as Excluded PCB Product, which is not regulated by US Environmental Protection Agency (US EPA) under the Toxic Substances Control Act (TSCA). Please note that although PCBs in building material at the Building are not regulated by US EPA, it is Alta’s understanding that the demolition contractor will adhere to other regulatory requirements for handling, and disposal of identified asbestos-containing materials and lead-based paints.

8 RECOMMENDATIONS

Asbestos-containing materials and lead-based paints have previously been identified at the site and are delineated in a separate report. Removal of ACMs and LBP is subject to local, state and federal requirements. A survey record and abatement plan have been prepared for this site to be used for the removal and waste disposal of ACM and LBP.

9 ASSUMPTIONS AND LIMITATIONS

Alta’s sampling was limited to suspect PCBs in construction building materials found at the Science Building. The results are intended for use by the District and its contractors to characterize generated waste building materials for disposal, based in part on the reported PCB content during demolition of the building.

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 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.

Material quantities are in some cases listed within this document. These quantities are not intended to be used for removal bidding purposes. Nor is this document intended as a contract manual. Work methods and sequence, coordination of participants, applicable codes, engineering controls, required submittals, and notifications should in all cases be addressed in a separate and independent bidding and contract document. If you have any questions, please do not hesitate to contact the undersigned at (562) 495-5777. We appreciate the opportunity to be of service to Santa Monica-Malibu Unified School District.

10 SIGNATORY

Respectfully submitted by:

Alta Environmental

Cesar Ruvalcaba
Project Manager

Respectfully submitted by:

Alta Environmental

David Schack
VP, Building Sciences

Appendix A

Sample Inventories

PCB Bulk Sampling Summary

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7175
PROJECT: Science Demolition
DATE SAMPLED: September 6, 2017

Building Name	Sample Number	Sample Description	Sample Location	Photograph Number	Total PCBs (mg/kg)
Science Building	01	2' x 2' White ceiling panel	Room 100, northeast	01-906	Non Detected
Science Building	02	2' x 2' White ceiling panel	Room 100P, west center	02-906	Non Detected
Science Building	03	2' x 2' White ceiling panel	Room 102, northeast	03-906	Non Detected
Science Building	04	4" Black covebase with glue	Room 100, northeast	04-906	Non Detected
Science Building	05	4" Black covebase with glue	1st Floor hallway, north center	05-906	Non Detected
Science Building	06	4" Black covebase with glue	Room 107, southeast	06-906	Non Detected
Science Building	07	12" x 12" Blue speckled floor tile with glue	Room 100, southeast	07-906	Non Detected
Science Building	08	12" x 12" Blue speckled floor tile with glue	Room 204, west center	08-906	Non Detected
Science Building	09	12" x 12" Blue speckled floor tile with glue	Room 102, west center	09-906	Non Detected
Science Building	10	12" x 12" White floor tile with glue	Room 100, northwest	10-906	Non Detected

PCB Bulk Sampling Summary

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7175
PROJECT: Science Demolition
DATE SAMPLED: September 6, 2017

Building Name	Sample Number	Sample Description	Sample Location	Photograph Number	Total PCBs (mg/kg)
Science Building	13	Blue paint on metal window case	Room 100, south center	13-906	Non Detected
Science Building	14	Blue paint on metal window case	Room 102, south center	14-906	Non Detected
Science Building	15	Blue paint on metal window case	Room 204, south center	15-906	Non Detected
Science Building	16	Blue paint on metal door case	Room 200, NE	16-906	Non Detected
Science Building	17	Blue paint on metal door case	Room 207, SW	17-906	Non Detected
Science Building	18	Blue paint on metal door case	Room 101, southwest	18-906	Non Detected
Science Building	18A	Brown wood door	Room 200, NE	18A-906	Non Detected
Science Building	18B	Brown wood door	Room 207, SW	18B-906	Non Detected
Science Building	18C	Brown wood door	Room 101, southwest	18C-906	Non Detected
Science Building	19	White painton metal window case	Room 100, north center	19-906	Non Detected
Science Building	20	12" dark blue floor tile with glue	Room 101, west center	20-906	Non Detected
Science Building	21	12" Green floor tile with yellow glue	Room 101, center	21-906	Non Detected
Science Building	22	12" Green floor tile with yellow glue	Room 101C, center	22-906	Non Detected
Science Building	23	12" Green floor tile with yellow glue	Room 103, east center	23-906	Non Detected
Science Building	24	12" x 12" Peghole wall tile with glue	Room 101, southwest	24-906	Non Detected

PCB Bulk Sampling Summary

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7175
PROJECT: Science Demolition
DATE SAMPLED: September 6, 2017

Building Name	Sample Number	Sample Description	Sample Location	Photograph Number	Total PCBs (mg/kg)
Science Building	25	White paint on smooth plaster	100, south center	55-907	Non Detected
Science Building	26	White paint on smooth plaster	101, north west	55-907	Non Detected
Science Building	27	White paint on smooth plaster	201, north center	55-907	Non Detected
Science Building	28	White paint on drywall	100, north center	49-907	Non Detected
Science Building	29	White paint on drywall	104, north wall center	49-907	Non Detected
Science Building	30	White paint on drywall	202, north wall center	49-907	Non Detected
Science Building	31	Blue paint on drywall	2nd Floor hallway at elevator	49-907	Non Detected
Science Building	32	Blue paint on plaster	1st Floor hallway at entry to boys restroom	32-906	Non Detected
Science Building	33	Blue paint on concrete	1nd Floor hallway, north center	33-906	Non Detected
Science Building	34	Blue sheet vinyl flooring with adhesive	1st Floor hallway, southwest	34-906	Non Detected
Science Building	35	Blue sheet vinyl flooring with adhesive	1st Floor hallway, east center	35-906	Non Detected
Science Building	36	Blue sheet vinyl flooring with adhesive	2nd Floor hallway, center	36-906	Non Detected
Science Building	37	Adhesive for gray carpet	Room 101A, center	37-906	Non Detected
Science Building	38	Beige wall glue	Room 101, west center	38-906	Non Detected

PCB Bulk Sampling Summary

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7175
PROJECT: Science Demolition
DATE SAMPLED: September 6, 2017

Building Name	Sample Number	Sample Description	Sample Location	Photograph Number	Total PCBs (mg/kg)
Science Building	39	2' x 4' Fissured ceiling panel	Room 101P, center	39-906	Non Detected
Science Building	40	Blue paint on metal door	1st Floor hallway, east entry	40-906	Non Detected
Science Building	41	Blue paint on metal handrail	East stairway at landing	41-906	Non Detected
Science Building	42	White paint on metal door case	Room 101P, west entry	42-906	Non Detected
Science Building	43	Door caulking (interior)	Room 101, northeast	43-906	Non Detected
Science Building	43A	Door caulking (interior)	Room 105, south center	43A-906	Non Detected
Science Building	43B	Door caulking (interior)	Room 200, northwest entry	43B-906	Non Detected
Science Building	44	Window caulking (interior)	Room 100P, south center	44-906	Non Detected
Science Building	45	White painted roof core	Roof, southeast	45-906	Non Detected
Science Building	46	White painted roof core	Roof, west center	45-906	Non Detected
Science Building	47	White painted roof core	Roof, northeast	45-906	Non Detected
Science Building	48	White painted roof mastic	Roof, west center	48-906	Non Detected
Science Building	49	White on metal wall	Roof level, center wall	49-906	Non Detected
Science Building	50	Duct sealant	Roof mechanical room, center	50-906	Non Detected

PCB Bulk Sampling Summary

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7175
PROJECT: Science Demolition
DATE SAMPLED: September 6, 2017

Building Name	Sample Number	Sample Description	Sample Location	Photograph Number	Total PCBs (mg/kg)
Science Building	51	White paint on concrete	Exterior, southeast	51-906	Non Detected
Science Building	52	White paint on concrete	Exterior, northeast	52-906	Non Detected
Science Building	53	White paint on concrete	Exterior, northwest	53-906	Non Detected
Science Building	54	White paint on stucco	Exterior, NE corner	54-906	Non Detected
Science Building	55	Door caulking (exterior)	Exterior, east center	55-906	Non Detected
Science Building	56	Window glazing	Exterior, north center	56-906	Non Detected
Science Building	57	Window glazing	Exterior, northwest	57-906	Non Detected
Science Building	58	Window glazing	Exterior, south center	58-906	Non Detected
Science Building	59	Window caulking	Exterior, northeast	59-906	Non Detected
Science Building	60	Window caulking	Exterior, northwest	60-906	Non Detected
Science Building	61	Window caulking	Exterior, southeast	61-906	11.3 (Aroclor 1254)
Science Building	62	Window glazing	Exterior, east center (at doors with windows)	62-906	Non Detected
Science Building	63	White paint on window panel	Exterior, north center	63-906	Non Detected
Science Building	64	Blue paint on handrail	Exterior, north center	64-906	Non Detected
Science Building	65	Blue metal door case	Exterior, west center	65-906	Non Detected
Science Building	66	Blue paint on metal door	Exterior, west center, south end	66-906	Non Detected

Notes:
1) mg/kg = milligrams per kilogram
2) Non-detected = no PCBs detected above the laboratory's Actual Detection Limit (DL) used by the laboratory for this project of 1 ppm. In some cases, the DL was raised above 1ppm due to matrix interferences, but it did not exceed ≥ 50 ppm, currently being used as approved by the USEPA to defined PCB Bulk Product Waste.

PCB Bulk Sampling Summary

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7175
PROJECT: Science Demolition
DATE SAMPLED: September 6, 2017

QA/QC Samples

Building Name	Sample Number	Sample Description	Sample Location	Photograph Number	Reported PCBs (mg/kg)
Duplicate QA/QC Samples					
Science Building	20A	12" Dark blue floor tile with glue	Room 101, west center	N/A	Non Detected
Science Building	40A	Metal blue door	1st floor hallway, east center	N/A	Non Detected
Science Building	61A	Window caulking	Extertior, southeast (duplicate sample of #61)	N/A	5.08 (Aroclor 1254)
Split Duplicate QA/QC Samples					
Science Building	43C	Door caulking	Room 101, northeast (split duplicate of 43D)	N/A	Non Detected
Science Building	43D	Door caulking	Room 101, northeast (split duplicate of 43C)	N/A	Non Detected

Notes:
1) mg/kg = milligrams per kilogram

2) Non-detected = no PCBs detected above the laboratory's Actual Detection Limit (DL) used by the laboratory for this project of 1 ppm. In some cases, the DL was raised above 1ppm due to matrix interferences, but it did not exceed ≥ 50 ppm, currently being used as approved by the USEPA to defined PCB Bulk Product Waste.

Appendix B

Laboratory Reports

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

Date: September 15, 2017

Mr. Cesar Ruvalcaba
Alta Environmental
3777 Long Beach Blvd, Annex Building
Long Beach, CA 90807
Tel:(562)495-5777 Email:Cesar.Ruvalcaba@altaenviron.com

Project: **SMHS**
Lab I.D.: **170908-53 through -126**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on September 8, 2017, 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 Email: Cesar.Ruvalcaba@altaenviron.com
PROJECT: **SMHS**

DATE SAMPLED: 09/06/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 09/08/17
DATE EXTRACTED: 09/08-09/17
DATE ANALYZED: 09/11/17
DATE REPORTED: 09/15/17

PCBs ANALYSIS; PAGE 1 OF 5
METHOD: EPA 3540C/8082
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
01	170908-53	ND	ND	ND	ND	ND	ND	ND	ND	1
02	170908-54	ND	ND	ND	ND	ND	ND	ND	ND	1
03	170908-55	ND	ND	ND	ND	ND	ND	ND	ND	1
Method Blank		ND	ND	ND	ND	ND	ND	ND	ND	1
PQL		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected Or Below the Actual Detection Limit
* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260
*** = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

LABORATORY REPORT

CUSTOMER: **Alta Environmental**
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 Email: Cesar.Ruvalcaba@altaenviron.com
PROJECT: **SMHS**

DATE SAMPLED: 09/06/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 09/08/17
DATE EXTRACTED: 09/11-12/17
DATE ANALYZED: 09/12-13/17
DATE REPORTED: 09/15/17

PCBs ANALYSIS; PAGE 2 OF 5
METHOD: EPA 3540C/8082
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
04	170908-56	ND	ND	ND	ND	ND	ND	ND	ND	1
05	170908-57	ND	ND	ND	ND	ND	ND	ND	ND	1
06	170908-58	ND	ND	ND	ND	ND	ND	ND	ND	1
07	170908-59	ND	ND	ND	ND	ND	ND	ND	ND	1
08	170908-60	ND	ND	ND	ND	ND	ND	ND	ND	1
09	170908-61	ND	ND	ND	ND	ND	ND	ND	ND	1
10	170908-62	ND	ND	ND	ND	ND	ND	ND	ND	1
13	170908-63	ND	ND	ND	ND	ND	ND	ND	ND	16^
14	170908-64	ND	ND	ND	ND	ND	ND	ND	ND	16^
15	170908-65	ND	ND	ND	ND	ND	ND	ND	ND	16^
16	170908-66	ND	ND	ND	ND	ND	ND	ND	ND	4^
17	170908-67	ND	ND	ND	ND	ND	ND	ND	ND	4^
18	170908-68	ND	ND	ND	ND	ND	ND	ND	ND	2^
18A	170908-69	ND	ND	ND	ND	ND	ND	ND	ND	4^
18B	170908-70	ND	ND	ND	ND	ND	ND	ND	ND	2^
18C	170908-71	ND	ND	ND	ND	ND	ND	ND	ND	2^
19	170908-72	ND	ND	ND	ND	ND	ND	ND	ND	4^
20	170908-73	ND	ND	ND	ND	ND	ND	ND	ND	1
20A	170908-74	ND	ND	ND	ND	ND	ND	ND	ND	1
21	170908-75	ND	ND	ND	ND	ND	ND	ND	ND	1
Method Blank		ND	ND	ND	ND	ND	ND	ND	ND	1
	PQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected Or Below the Actual Detection Limit
* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260
*** = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
^ = Actual detection limit raised due to limited sample

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

LABORATORY REPORT

CUSTOMER: **Alta Environmental**
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 Email: Cesar.Ruvalcaba@altaenviron.com
PROJECT: **SMHS**

DATE SAMPLED: 09/06/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 09/08/17
DATE EXTRACTED: 09/11-12/17
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DATE REPORTED: 09/15/17

PCBs ANALYSIS; PAGE 3 OF 5
METHOD: EPA 3540C/8082
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
22	170908-76	ND	ND	ND	ND	ND	ND	ND	ND	1
23	170908-77	ND	ND	ND	ND	ND	ND	ND	ND	1
24	170908-78	ND	ND	ND	ND	ND	ND	ND	ND	1
25	170908-79	ND	ND	ND	ND	ND	ND	ND	ND	8^
26	170908-80	ND	ND	ND	ND	ND	ND	ND	ND	4^
27	170908-81	ND	ND	ND	ND	ND	ND	ND	ND	8^
28	170908-82	ND	ND	ND	ND	ND	ND	ND	ND	2**
29	170908-83	ND	ND	ND	ND	ND	ND	ND	ND	4**
30	170908-84	ND	ND	ND	ND	ND	ND	ND	ND	8**
31	170908-85	ND	ND	ND	ND	ND	ND	ND	ND	1
32	170908-86	ND	ND	ND	ND	ND	ND	ND	ND	2^
33	170908-87	ND	ND	ND	ND	ND	ND	ND	ND	4^
34	170908-88	ND	ND	ND	ND	ND	ND	ND	ND	1
35	170908-89	ND	ND	ND	ND	ND	ND	ND	ND	1
36	170908-90	ND	ND	ND	ND	ND	ND	ND	ND	1
37	170908-91	ND	ND	ND	ND	ND	ND	ND	ND	2^
39	170908-93	ND	ND	ND	ND	ND	ND	ND	ND	1
40	170908-94	ND	ND	ND	ND	ND	ND	ND	ND	40^
40A	170908-95	ND	ND	ND	ND	ND	ND	ND	ND	16^
Method Blank		ND	ND	ND	ND	ND	ND	ND	ND	1
	PQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected Or Below the Actual Detection Limit
* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260
*** = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
^ = Actual detection limit raised due to limited sample
** = Actual detection limit raised due to matrix interference

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

LABORATORY REPORT

CUSTOMER: **Alta Environmental**
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel:(562)495-5777 Email:Cesar.Ruvalcaba@altaenviron.com
PROJECT: **SMHS**

DATE SAMPLED:09/06&07/17
MATRIX:SOLID
REPORT TO:MR. CESAR RUVALCABA

DATE RECEIVED:09/08/17
DATE EXTRACTED:09/12-13/17
DATE ANALYZED:09/13/17
DATE REPORTED:09/15/17

PCBs ANALYSIS; PAGE 4 OF 5
METHOD: EPA 3540C/8082
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
38	170908-92	ND	ND	ND	ND	ND	ND	ND	ND	1
41	170908-96	ND	ND	ND	ND	ND	ND	ND	ND	4^
42	170908-97	ND	ND	ND	ND	ND	ND	ND	ND	2^
43	170908-98	ND	ND	ND	ND	ND	ND	ND	ND	2**
43A	170908-99	ND	ND	ND	ND	ND	ND	ND	ND	4**
43B	170908-100	ND	ND	ND	ND	ND	ND	ND	ND	1
43C	170908-101	ND	ND	ND	ND	ND	ND	ND	ND	2**
43D	170908-102	ND	ND	ND	ND	ND	ND	ND	ND	2**
44	170908-103	ND	ND	ND	ND	ND	ND	ND	ND	2**
45	170908-104	ND	ND	ND	ND	ND	ND	ND	ND	1
46	170908-105	ND	ND	ND	ND	ND	ND	ND	ND	1
47	170908-106	ND	ND	ND	ND	ND	ND	ND	ND	1
48	170908-107	ND	ND	ND	ND	ND	ND	ND	ND	1
49	170908-108	ND	ND	ND	ND	ND	ND	ND	ND	4^
50	170908-109	ND	ND	ND	ND	ND	ND	ND	ND	1
51	170908-110	ND	ND	ND	ND	ND	ND	ND	ND	2^
52	170908-111	ND	ND	ND	ND	ND	ND	ND	ND	2^
53	170908-112	ND	ND	ND	ND	ND	ND	ND	ND	2^
54	170908-113	ND	ND	ND	ND	ND	ND	ND	ND	1
55	170908-114	ND	ND	ND	ND	ND	ND	ND	ND	1
Method Blank		ND	ND	ND	ND	ND	ND	ND	ND	1
	PQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected Or Below the Actual Detection Limit
* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260
*** = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
^ = Actual detection limit raised due to limited sample
** = Actual detection limit raised due to matrix interference

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

LABORATORY REPORT

CUSTOMER: **Alta Environmental**
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 Email: Cesar.Ruvalcaba@altaenviron.com
PROJECT: **SMHS**

DATE SAMPLED: 09/07/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 09/08/17
DATE EXTRACTED: 09/12-13/17
DATE ANALYZED: 09/13&14/17
DATE REPORTED: 09/15/17

PCBs ANALYSIS; PAGE 5 OF 5
METHOD: EPA 3540C/8082
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
56	170908-115	ND	ND	ND	ND	ND	ND	ND	ND	1
57	170908-116	ND	ND	ND	ND	ND	ND	ND	ND	1
58	170908-117	ND	ND	ND	ND	ND	ND	ND	ND	1
59	170908-118	ND	ND	ND	ND	ND	ND	ND	ND	1
60	170908-119	ND	ND	ND	ND	ND	ND	ND	ND	1
61	170908-120	ND	ND	ND	ND	ND	11.3	ND	11.3	2
61A	170908-121	ND	ND	ND	ND	ND	5.08	ND	5.08	1
62	170908-122	ND	ND	ND	ND	ND	ND	ND	ND	1
63	170908-123	ND	ND	ND	ND	ND	ND	ND	ND	2^
64	170908-124	ND	ND	ND	ND	ND	ND	ND	ND	1
65	170908-125	ND	ND	ND	ND	ND	ND	ND	ND	2**
66	170908-126	ND	ND	ND	ND	ND	ND	ND	ND	2**
Method Blank		ND	ND	ND	ND	ND	ND	ND	ND	1
	PQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected Or Below the Actual Detection Limit
* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260
*** = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
^ = Actual detection limit raised due to limited sample
** = Actual detection limit raised due to matrix interference

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: **Soil/Solid/Sludge** Date Analyzed: 9/11/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 170911-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.105	**105%**	0.110	**110%**	**5%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.122	**122%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	170908-19	170908-22	170908-25	170908-28	170908-31	170908-34
Tetra-chloro-meta-xylene	50-150	78%	122%	72%	81%	77%	87%	128%
Decachlorobipneyl	50-150	116%	101%	102%	118%	111%	94%	74%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	170908-37	170908-40	170908-43	170908-46	170908-49	170908-53	170908-54	170908-55
Tetra-chloro-meta-xylene	100%	122%	80%	102%	106%	122%	120%	85%
Decachlorobipneyl	128%	86%	98%	117%	106%	97%	96%	127%

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

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

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

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

Analyzed and Reviewed By: _____

Final Reviewer: _____

Enviro-Chem, Inc.

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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 9/12-13/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 170912-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.104	**104%**	0.103	**103%**	**0%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.112	**112%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	170908-56	170908-57	170908-58	170908-59	170908-60	170908-61
Tetra-chloro-meta-xylene	50-150	139%	102%	94%	116%	106%	90%	100%
Decachlorobipneyl	50-150	114%	98%	103%	115%	108%	102%	111%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	170908-62	170908-63	170908-64	170908-65	170908-66	170908-67	170908-68	170908-69
Tetra-chloro-meta-xylene	110%	138%	122%	134%	118%	115%	126%	127%
Decachlorobipneyl	102%	114%	81%	130%	132%	128%	138%	136%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	170908-70	170908-71	170908-72	170908-73	170908-74	170908-75
Tetra-chloro-meta-xylene	109%	136%	143%	113%	134%	100%
Decachlorobipneyl	90%	111%	136%	110%	93%	94%

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

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

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

Analyzed and Reviewed By: _____

Final Reviewer: _____

Enviro-Chem, Inc.

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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 9/13/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 170912-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.086	**86%**	0.101	**101%**	**16%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.107	**107%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	170908-76	170908-77	170908-78	170908-79	170908-80	170908-81
Tetra-chloro-meta-xylene	50-150	112%	122%	84%	89%	94%	127%	116%
Decachlorobipneyl	50-150	116%	78%	110%	87%	113%	108%	101%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	170908-82	170908-83	170908-84	170908-85	170908-86	170908-87	170908-88	170908-89
Tetra-chloro-meta-xylene	78%	107%	121%	142%	63%	68%	71%	143%
Decachlorobipneyl	84%	122%	128%	129%	57%	95%	140%	127%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	170908-90	170908-91	170908-93	170908-94	170908-95	
Tetra-chloro-meta-xylene	121%	111%	87%	80%	75%	
Decachlorobipneyl	138%	81%	94%	72%	66%	

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

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

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

Analyzed and Reviewed By: _____

Final Reviewer: _____

Enviro-Chem, Inc.

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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 9/13/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 170913-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.078	**78%**	0.084	**84%**	**8%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.123	**123%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	170908-92	170908-96	170908-97	170908-98	170908-99	170908-100
Tetra-chloro-meta-xylene	50-150	141%	140%	107%	114%	103%	112%	106%
Decachlorobipneyl	50-150	117%	110%	136%	10%	114%	108%	100%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	170908-101	170908-102	170908-103	170908-104	170908-105	170908-106	170908-107	170908-108
Tetra-chloro-meta-xylene	109%	121%	98%	132%	137%	113%	127%	114%
Decachlorobipneyl	144%	102%	101%	147%	108%	116%	130%	140%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	170908-109	170908-110	170908-111	170908-112	170908-113	170908-114
Tetra-chloro-meta-xylene	137%	143%	121%	107%	124%	135%
Decachlorobipneyl	56%	97%	73%	63%	72%	83%

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

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

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

Analyzed and Reviewed By: _____

Final Reviewer: _____

Enviro-Chem, Inc.

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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 9/13-14/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: **170913-LCS1/2**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.121	**121%**	0.125	**125%**	**3%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.114	**114%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	170908-115	170908-116	170908-117	170908-118	170908-119	170908-120
Tetra-chloro-meta-xylene	50-150	147%	121%	127%	129%	128%	85%	132%
Decachlorobipneyl	50-150	102%	101%	82%	98%	145%	119%	112%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	170908-121	170908-122	170908-123	170908-124	170908-125	170908-126		
Tetra-chloro-meta-xylene	131%	105%	123%	133%	117%	91%		
Decachlorobipneyl	104%	120%	95%	86%	82%	61%		

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

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

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

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

Analyzed and Reviewed By:

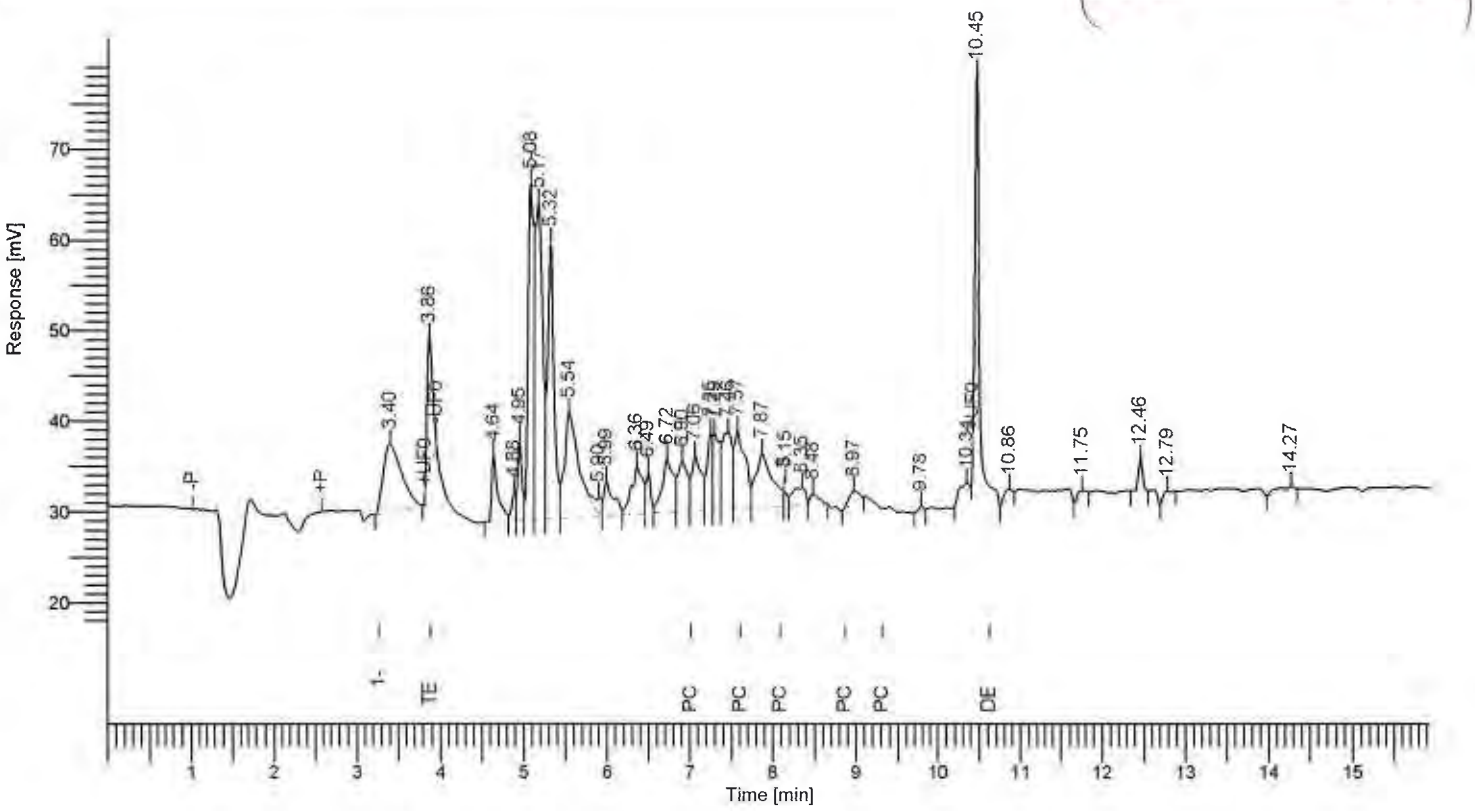
Final Reviewer:

Software Version : 6.3.2.0646
Sample Name : 170908-82 0.2/2
Instrument Name : GC-J
Rack/Vial : 0/34
Sample Amount : 1.000000
Cycle : 40

Date : 9/14/2017 4:22:18 PM
Data Acquisition Time : 9/13/2017 5:22:24 AM
Channel : A
Operator : GC
Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-J\J02017\J1709\J170912\A040.rst
Sequence File : D:\GC DATA\GC-J\J02017\J1709\J170912\J170912.seq

MATRIX INTERFERENCE



PCB Results

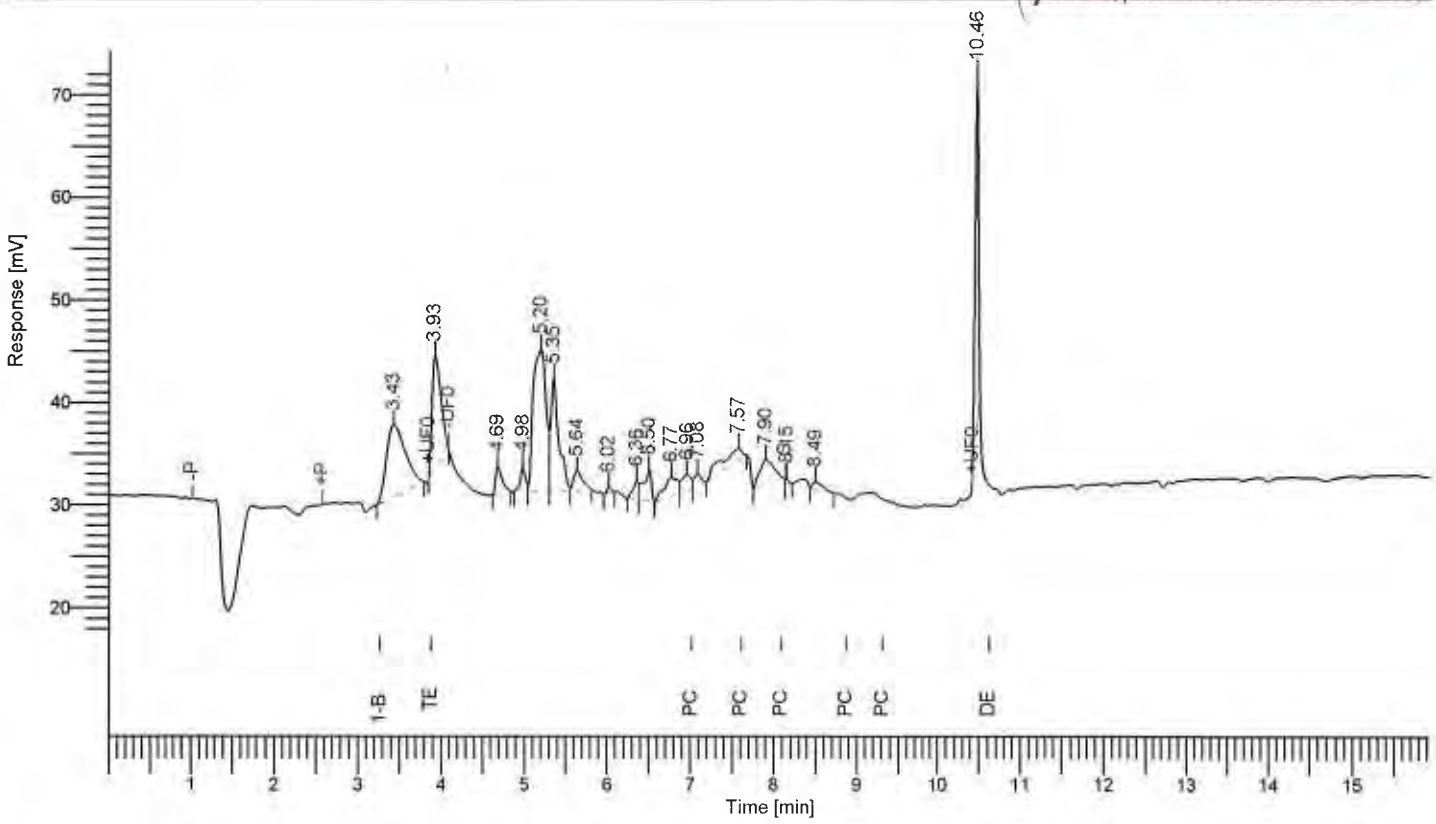
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
1	1-Bromo-2-Nitrobenzene	3.40	114455.50	7539.76	----------
2	Tetra chloro-meta-xylene	3.86	63537.92	15042.72	78.124
	PCB (1016+1260)	7.57	140185.56	16691.60	0.419
28	Decachlorobiphenyl	10.45	66528.98	30920.18	83.510
			384707.96	70194.26	162.052

Software Version : 6.3.2.0646
Sample Name : 170908-83 0.1/2
Instrument Name : GC-J
Rack/Vial : 0/35
Sample Amount : 1.000000
Cycle : 41

Date : 9/14/2017 4:23:21 PM
Data Acquisition Time : 9/13/2017 5:43:54 AM
Channel : A
Operator : GC
Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-J\J02017\J1709\J170912\A041.rst
Sequence File : D:\GC DATA\GC-J\J02017\J1709\J170912\J170912.seq

(MATRIX INTERFERENCE)



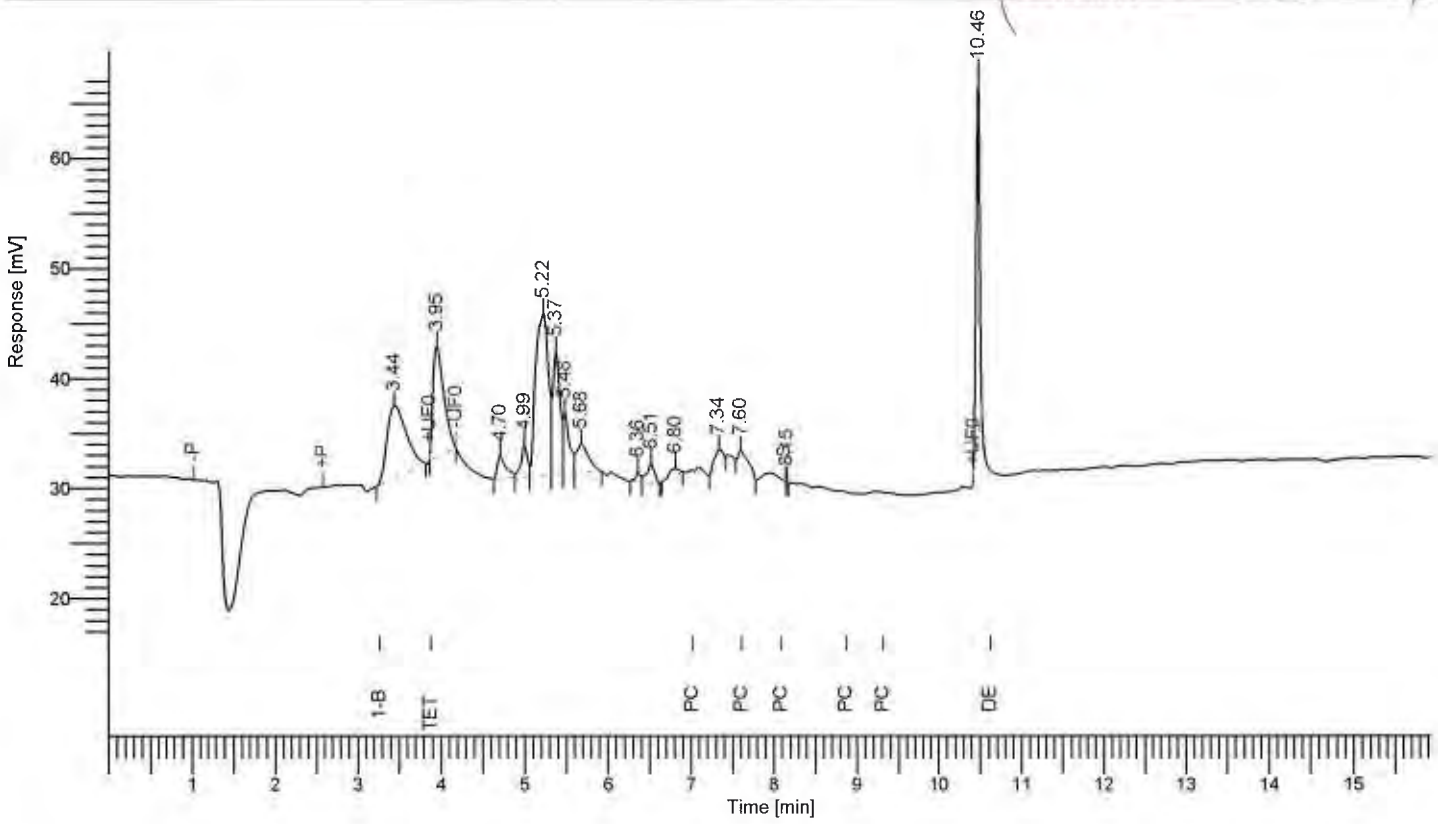
PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
1	1-Bromo-2-Nitrobenzene	3.43	110483.94	7054.82	
2	Tetra chloro-meta-xylene	3.93	83894.38	11224.68	106.861
	PCB (1016+1260)	7.57	34457.19	2898.30	0.107
18	Decachlorobiphenyl	10.46	93549.15	35085.25	121.647
			322384.66	56263.05	228.615

Software Version	: 6.3.2.0646	Date	: 9/14/2017 4:24:30 PM
Sample Name	: 170908-84 0.05/2	Data Acquisition Time	: 9/13/2017 6:05:21 AM
Instrument Name	: GC-J	Channel	: A
Rack/Vial	: 0/36	Operator	: GC
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 42		

Result File : D:\GC DATA\GC-J\J02017\J1709\J170912\A042.rst
Sequence File : D:\GC DATA\GC-J\J02017\J1709\J170912\J170912.seq

(MATRIX INTERFERENCE)



PCB Results

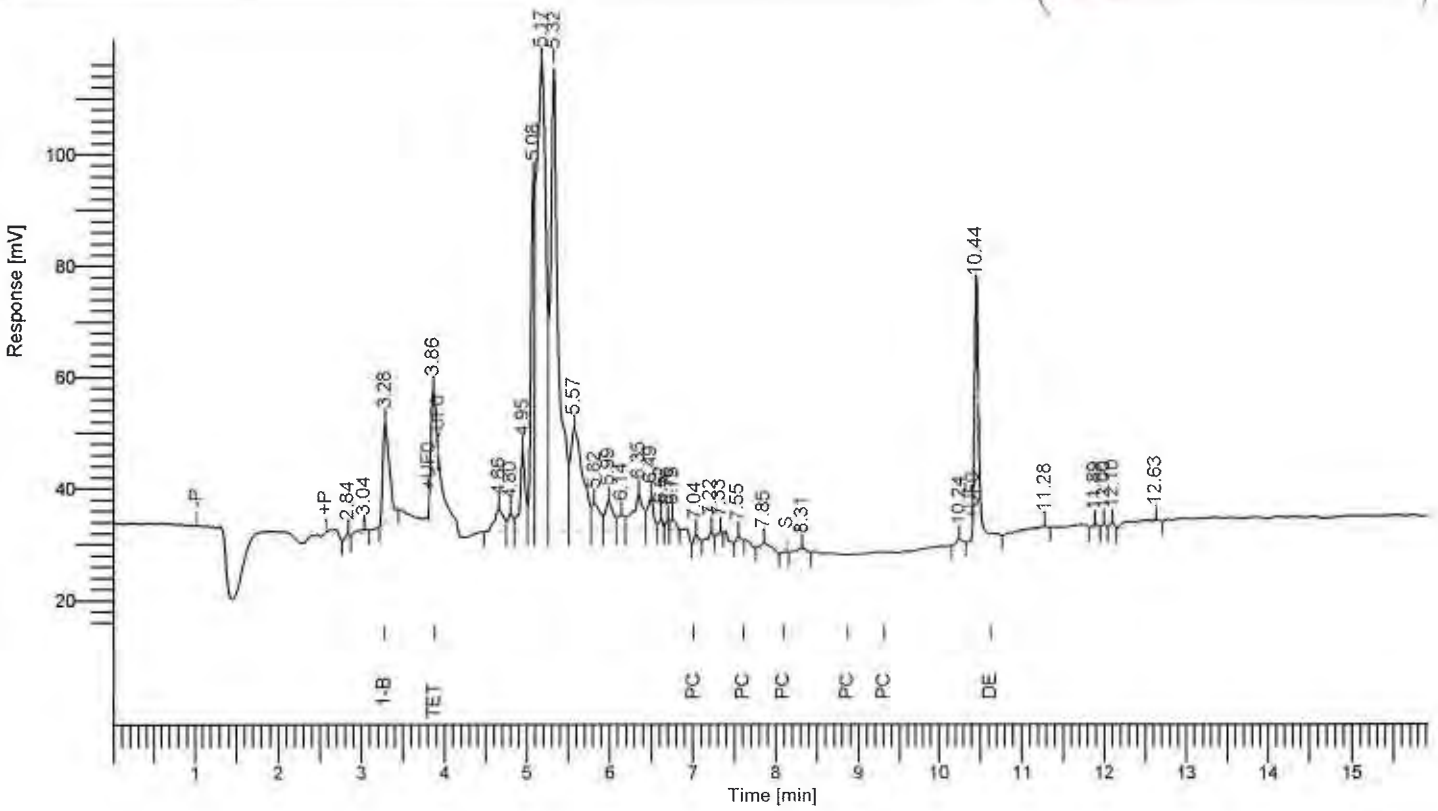
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
1	1-Bromo-2-Nitrobenzene	3.44	105805.70	6622.32	----------
2	Tetra chloro-meta-xylene	3.95	91235.50	10107.35	121.350
	PCB (1016+1260)	7.34	20657.31	2555.75	0.067
15	Decachlorobiphenyl	10.46	93947.38	33359.56	127.567
			311645.90	52644.97	248.984

Software Version : 6.3.2.0646
Sample Name : 170908-98 0.5/5
Instrument Name : GC-J
Rack/Vial : 0/54
Sample Amount : 1.000000
Cycle : 61

Date : 9/15/2017 8:40:53 AM
Data Acquisition Time : 9/13/2017 12:51:15 PM
Channel : A
Operator : GC
Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-J\J02017\J1709\J170912\A061.rst
Sequence File : D:\GC DATA\GC-J\J02017\J1709\J170912\J170912.seq

(MATRIX INTERFERANCE)



PCB Results

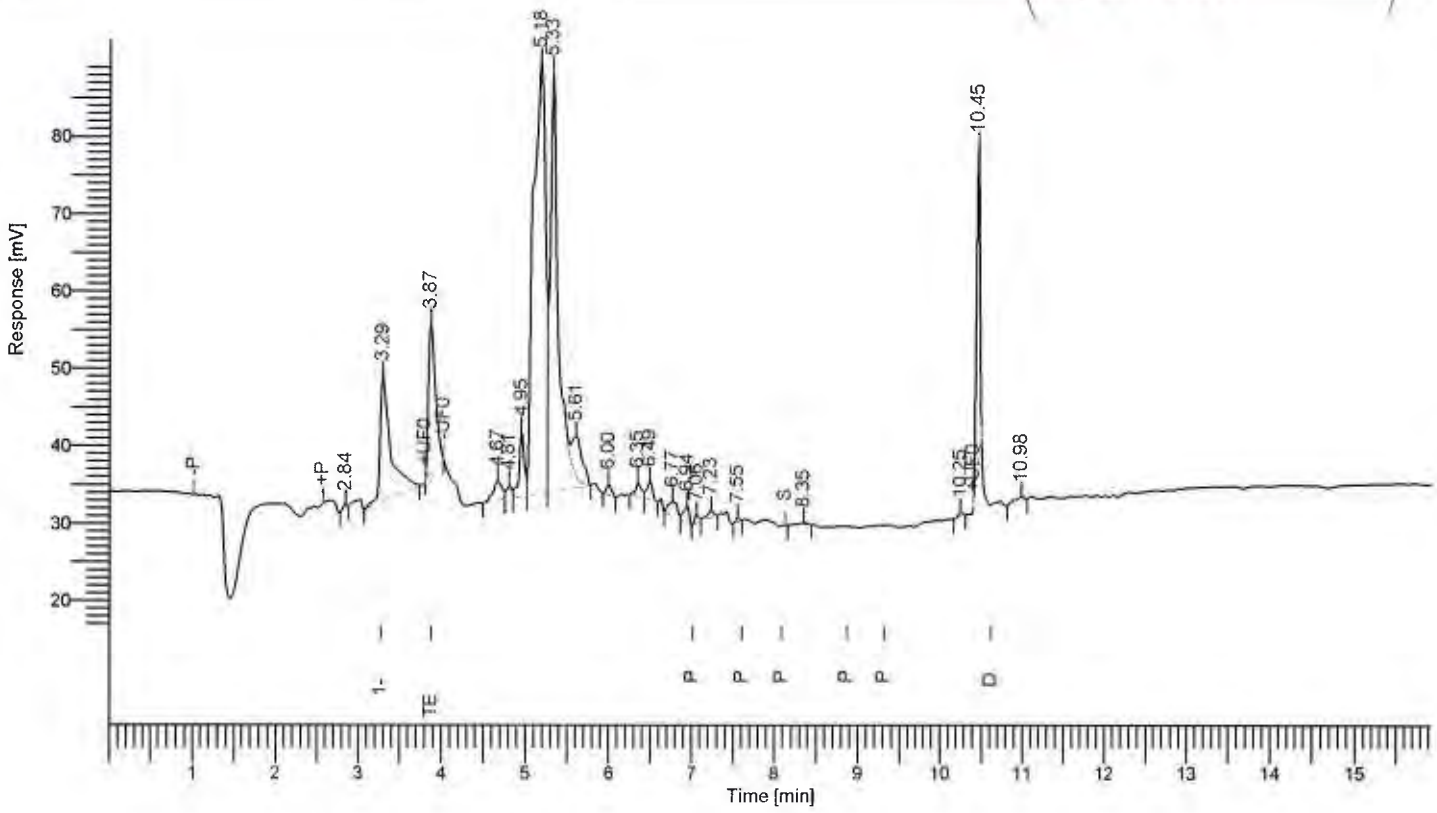
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
3	1-Bromo-2-Nitrobenzene	3.28	92502.62	17708.64	----------
4	Tetra chloro-meta-xylene	3.86	67805.88	16920.71	103.157
	PCB (1016+1260)	7.04	7381.92	2252.65	0.027
27	Decachlorobiphenyl	10.44	73540.16	32717.95	114.217
			241230.58	69599.95	217.402

Software Version : 6.3.2.0646
Sample Name : 170908-99 0.25/5
Instrument Name : GC-J
Rack/Vial : 0/55
Sample Amount : 1.000000
Cycle : 62

Date : 9/15/2017 9:31:25 AM
Data Acquisition Time : 9/13/2017 1:12:32 PM
Channel : A
Operator : GC
Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-J\J02017\J1709\J170912\A062.rst
Sequence File : D:\GC DATA\GC-J\J02017\J1709\J170912\J170912.seq

(MATRIX INTERFERENCE)



PCB Results

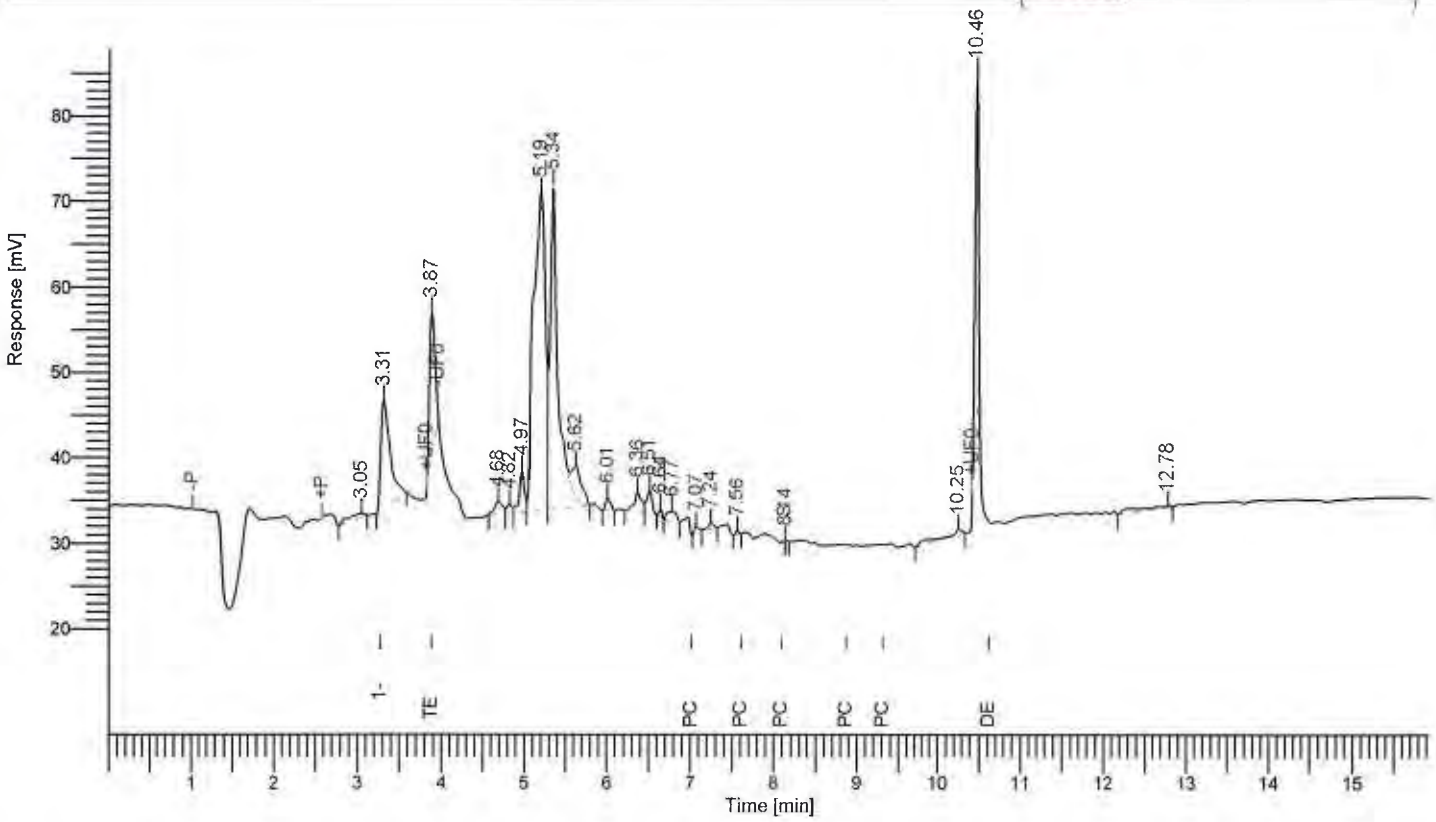
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
2	1-Bromo-2-Nitrobenzene	3.29	145902.18	16132.55	----------
3	Tetra chloro-meta-xylene	3.87	116422.25	19415.99	112.295
	PCB (1016+1260)	6.94	11322.06	2583.82	0.027
20	Decachlorobiphenyl	10.45	109851.40	41360.02	108.170
			383497.89	79492.37	220.491

Software Version : 6.3.2.0646
Sample Name : 170908-101 0.5/5
Instrument Name : GC-J
Rack/Vial : 0/57
Sample Amount : 1.000000
Cycle : 64

Date : 9/15/2017 8:43:50 AM
Data Acquisition Time : 9/13/2017 1:55:18 PM
Channel : A
Operator : GC
Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-J\J02017\J1709\J170912\A064.rst
Sequence File : D:\GC DATA\GC-J\J02017\J1709\J170912\J170912.seq

(MATRIX INTERFERENCE)



PCB Results

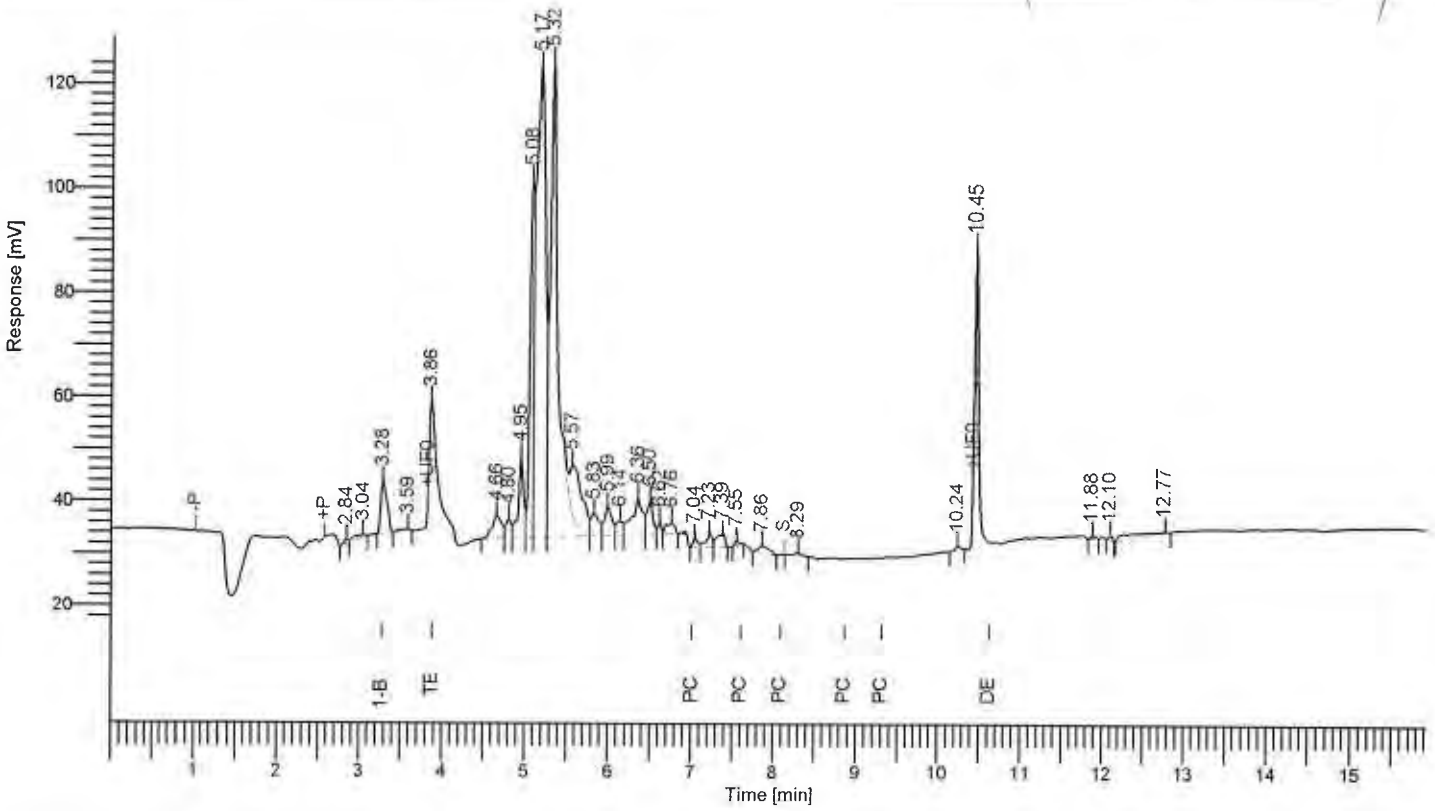
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
2	1-Bromo-2-Nitrobenzene	3.31	98252.83	12779.97	----------
3	Tetra chloro-meta-xylene	3.87	75858.95	17083.12	108.654
	PCB (1016+1260)	7.07	4434.83	1228.62	0.015
20	Decachlorobiphenyl	10.46	98545.52	41032.94	144.097
			277092.13	72124.65	252.767

Software Version : 6.3.2.0646
Sample Name : 170908-102 0.5/5
Instrument Name : GC-J
Rack/Vial : 0/58
Sample Amount : 1.000000
Cycle : 65

Date : 9/15/2017 8:45:19 AM
Data Acquisition Time : 9/13/2017 2:16:40 PM
Channel : A
Operator : GC
Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-J\J02017\J1709\J170912\A065.rst
Sequence File : D:\GC DATA\GC-J\J02017\J1709\J170912\J170912.seq

(MATRIX INTERFERENCE)



PCB Results

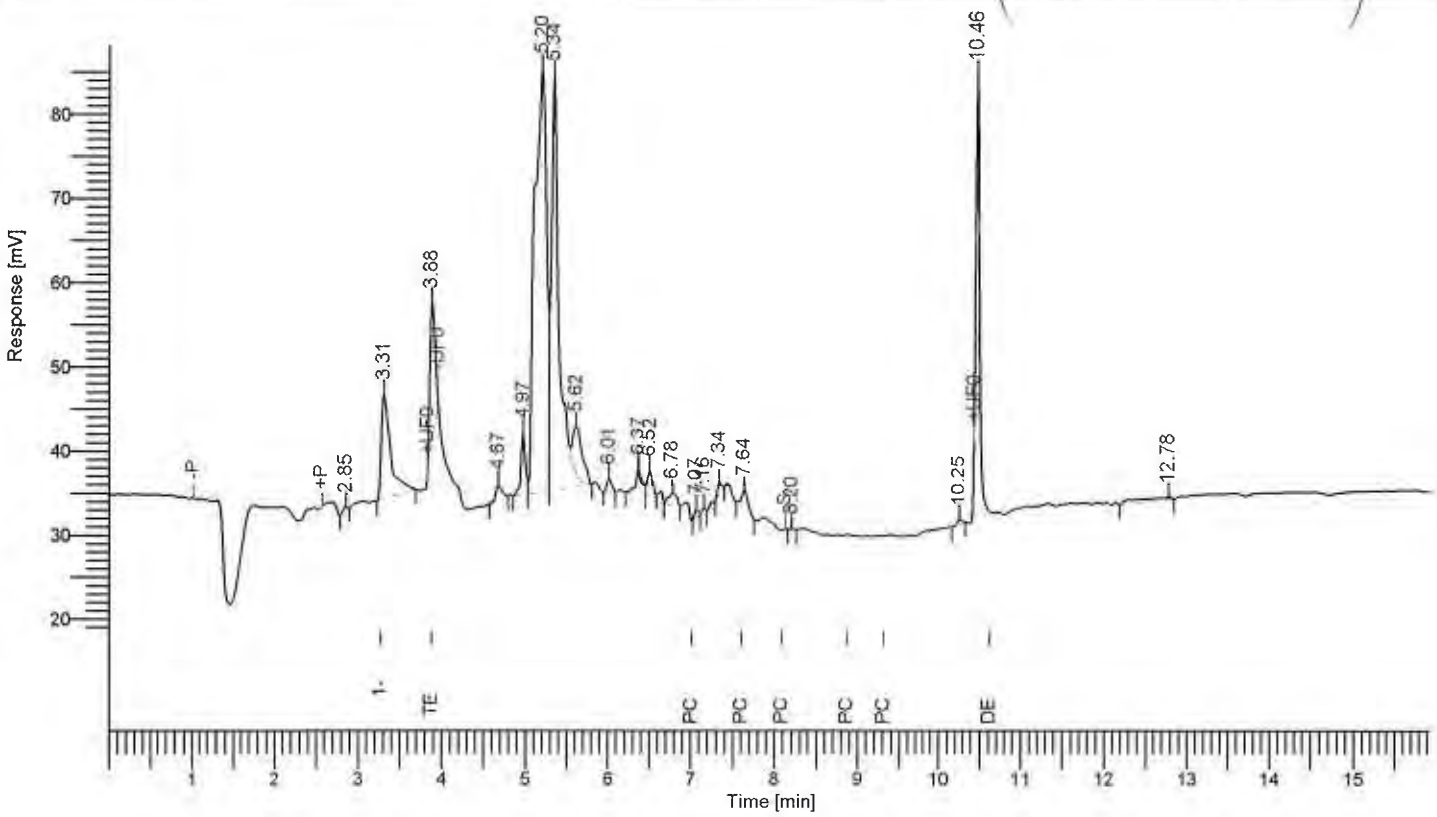
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
3	1-Bromo-2-Nitrobenzene	3.28	52615.01	10046.11	----------
5	Tetra chloro-meta-xylene	3.86	45151.58	13879.68	120.767
	PCB (1016+1260)	7.04	10180.54	2673.84	0.066
27	Decachlorobiphenyl	10.45	37288.42	25219.67	101.818
			145235.55	51819.30	222.652

Software Version : 6.3.2.0646
Sample Name : 170908-103 0.5/5
Instrument Name : GC-J
Rack/Vial : 0/59
Sample Amount : 1.000000
Cycle : 66

Date : 9/15/2017 8:46:05 AM
Data Acquisition Time : 9/13/2017 2:38:09 PM
Channel : A
Operator : GC
Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-J\J02017\J1709\J170912\A066.rst
Sequence File : D:\GC DATA\GC-J\J02017\J1709\J170912\J170912.seq

MATRIX INTERFERENCE



PCB Results

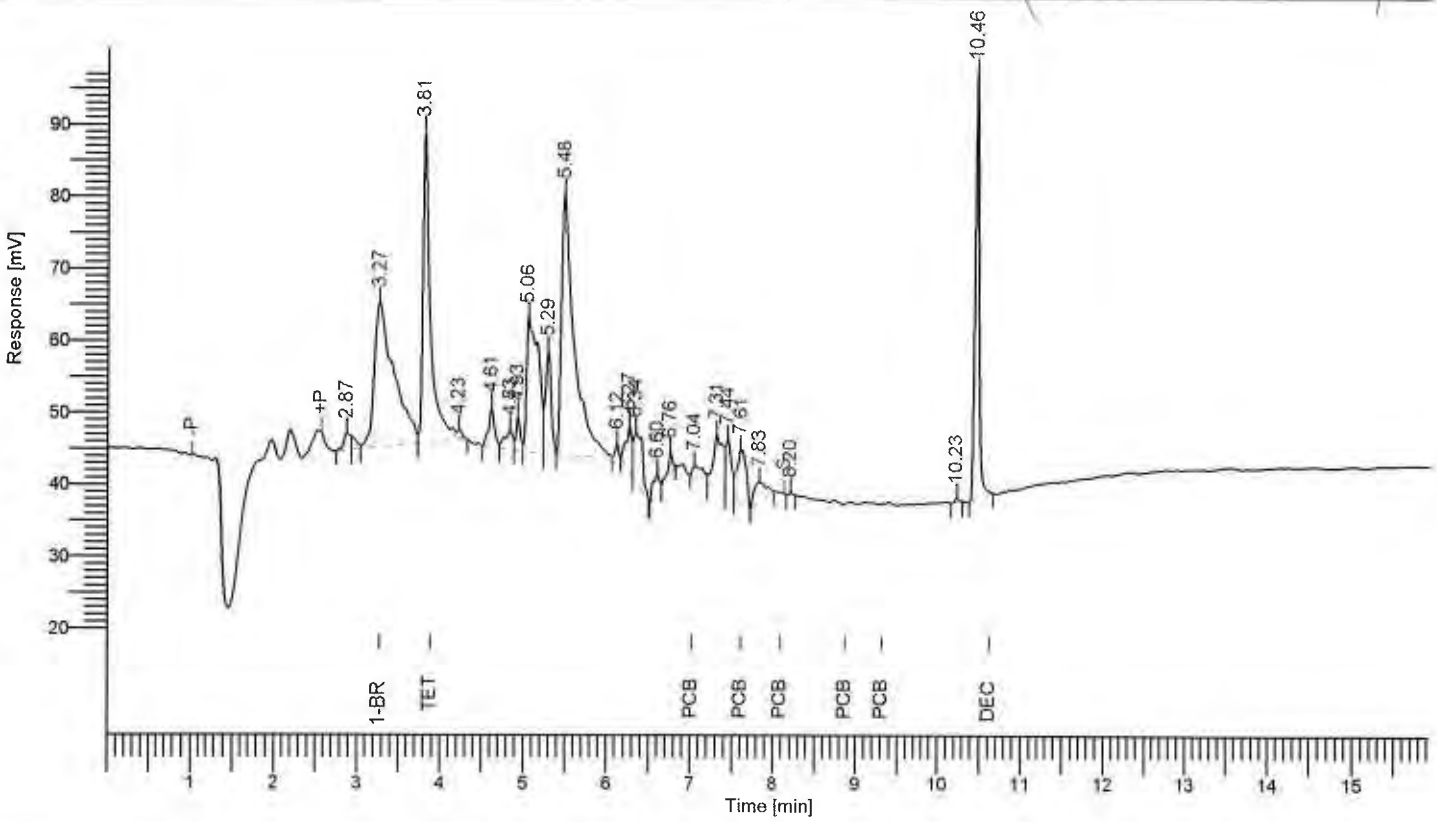
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
2	1-Bromo-2-Nitrobenzene	3.31	96901.81	12446.99	----------
3	Tetra chloro-meta-xylene	3.68	67733.84	16164.94	98.369
	PCB (1016+1260)	7.64	16643.46	3419.81	0.059
19	Decachlorobiphenyl	10.46	68034.62	34371.02	100.870
			249313.73	66402.76	199.298

Software Version : 6.3.2.0646
Sample Name : 170908-125 0.2/2
Instrument Name : GC-J
Rack/Vial : 0/13
Sample Amount : 1.000000
Cycle : 94

Date : 9/15/2017 9:08:27 AM
Data Acquisition Time : 9/14/2017 12:37:41 AM
Channel : A
Operator : GC
Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-J\J02017\J1709\J170912\A094.rst
Sequence File : D:\GC DATA\GC-J\J02017\J1709\J170912\J170912.seq

MATRIX INTERFERENCE



PCB Results

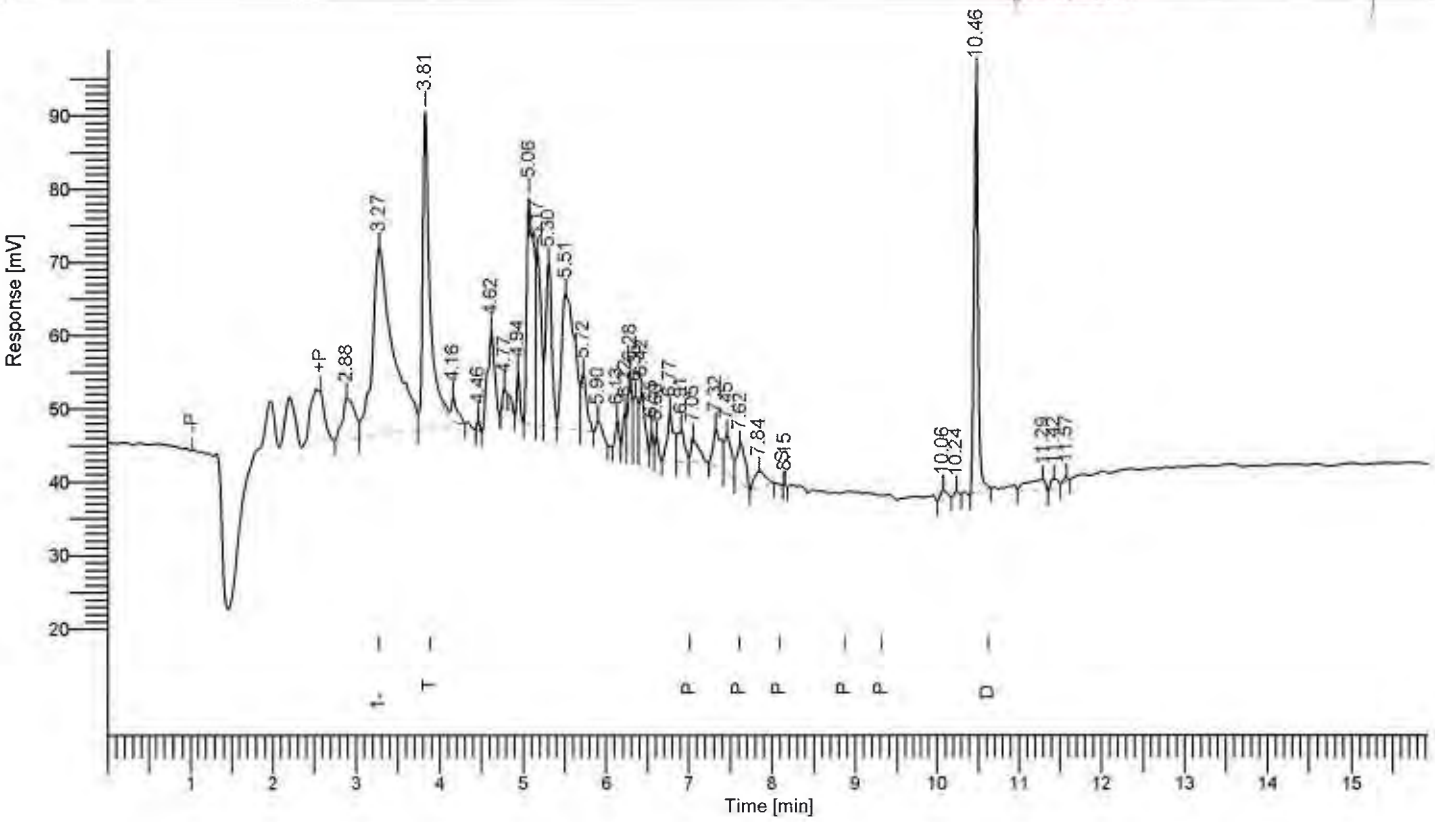
Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
2	1-Bromo-2-Nitrobenzene	3.27	328387.39	20067.27	
3	Tetra chloro-meta-xylene	3.81	272068.88	42894.21	116.595
	PCB (1016+1260)	7.44	77221.56	13214.56	0.080
23	Decachlorobiphenyl	10.46	188091.16	58213.12	82.289
			865769.00	134389.16	198.964

Software Version : 6.3.2.0646
Sample Name : 170908-126 0.2/2
Instrument Name : GC-J
Rack/Vial : 0/14
Sample Amount : 1.000000
Cycle : 95

Date : 9/15/2017 9:09:09 AM
Data Acquisition Time : 9/14/2017 12:58:57 AM
Channel : A
Operator : GC
Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-J\J02017\J1709\J170912\A095.rst
Sequence File : D:\GC DATA\GC-J\J02017\J1709\J170912\J170912.seq

(MATRIX INTERFERENCE)



PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
2	1-Bromo-2-Nitrobenzene	3.27	430507.01	25570.51	----------
3	Tetra chloro-meta-xylene	3.81	278570.81	44085.82	91.063
	PCB (1016+1260)	7.45	80713.01	12084.93	0.064
32	Decachlorobiphenyl	10.46	181310.92	56344.96	60.507
			971101.75	138086.22	151.634

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:

Misc./PO# SMSD-17-7175

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: EPA Method PCBs 8082	COMMENTS
01	170908-53	9-6-17	1600	Bulk			Ice	X	2'x2' Ceiling Panel
02	-54		1602						
03	-55		1603						
04	-56		1607						4" Black Lovebase w/ Glue
05	-57		1609						
06	-58		1611						
07	-59		1620						12"x12" Blue Speckled F.T. w/ Glue
08	-60		1622						
09	-61		1625						
10	-62		1628						12"x12" White FLOOR tile w/ Glue
~~11~~ 12	Not used		~~1630~~ 1632					Not tested	
13	-63		1635						Window Case Metal Blue
14	-64		1637						
15	-65		1639						

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd., Annex Bldg.
City/State/Zip: Long Beach, California 90807

Project Contact: Cesar Ruvalcaba
Tel: 562-495-5777
Fax:

Sampler's Signature:
Project Name/ID: SMHS.

Relinquished by:
Relinquished by:
Relinquished by:

Received by:
Received by:
Received by:

9/9/17 1230
Date & Time
Date & Time

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client ⊗ Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 9-8-17

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:

Misc./PO# SMSD-17-7175-

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required (EPA Method 8082 PCB)	COMMENTS
16	170908-66	9-6-17	1640	Bulk			Ice	X	Door Case Metal Blue
17	-67		1642						
18	-68		1645						
18A	-69		1650						Door Wood Brown
18B	-70		1653						
18C	-71		1653						
19	-72		1720						Window Case Metal White
20	-73		1725						12" DK. Blue Floor tile
20A	-74		1725						w/Glue 1 (Duplicate
21	-75		1730						12" Green Floor Tile w/Glue
22	-76		1735						
23	-77		1745						
24	-78		1800						12"x12" Regular wall tile w/G
25	-79		1809						white Pantex Plaster
26	-80		1815						

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd., Annex Bldg.
City/State/Zip: Long Beach, California 90807

Project Contact: Cesar Ruvalcaba
Tel: 562-495-5777
Fax:

Sampler's Signature:
Project Name/ID: SMH-5.

Relinquished by:	Received by:	9/9/17 1230 Date & Time
Relinquished by:	Received by:	Date & Time
Relinquished by:	Received by:	Date & Time

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client Ø Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date:

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:

Misc./PO# SMSD-17-7175

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: EPA Method 8082 PCBs	COMMENTS
27	170908-81	9-6-17	1825	Bulk			Ice	X	White Paint on Plaster
28	-82		1832						White Paint on Drywall
29	-83		1837						↓
30	-84		1842						
31	-85		1850						Blue Paint on Drywall
32	-86		1900						Blue Paint on Plaster
33	-87		1901						Blue Paint on Concrete
34	-88		1930						Blue sheet Vinyl Flooring
35	-89		1932						↓
36	-90		1945						
37	-91		2000						Adhesive for Grey Carpet
38	-92		2015						Beige wall Stucco
34	-93		2020						2'x4' Floor C.P
40	-94		2025						Blue Paint on Metal Door
40A	-95		2027						↓ (Duplicate)

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd., Annex Bldg
City/State/Zip: Long Beach, California 90807

Project Contact: Cesar Ruvalcaba
Tel: 562-495-5777
Fax:

Sampler's Signature:
Project Name/ID: SMS

Relinquished by:	Received by:	9/8/17 1230 Date & Time
Relinquished by:	Received by:	Date & Time
Relinquished by:	Received by:	Date & Time

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client ☒ Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 9-8-17

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:

Misc./PO# SMSD-17-7175

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
41	170908-96	9-6-17	2030	Bulk			Ice	X	Hand rail Metal Blue
42	-97		2040						Door Core Metal White
43	-98		2045						Door Caulking
43A	-99		2045						
43B	-100		2045						
43C	-101		2115						(Split Set)
43D	-102		2115						
44	-103		2100						Window Caulking
45	-104	9-7-17	1620						Roof
46	-105		1625						
47	-106		1632						
48	-107		1640						Roof Mastic
49	-108		1655						White Metal Wall
50	-109		1700						Duct Sealant

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd., Annex Bldg.
City/State/Zip: Long Beach, California 90807

Project Contact: Cesar Ruvalcaba
Tel: 562-495-5777
Fax:

Sampler's Signature:
Project Name/ID: SMITS

Relinquished by:
Relinquished by:
Relinquished by:

Received by:
Received by:
Received by:

Date & Time: 9/8/17 1220
Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client X Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 9-8-17

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:

Misc./PO#: SMSD-17-7175

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA Method [illegible] PCBs 8082									COMMENTS
51	170908-110	9-7-17	1725	Bulk			Ice	X									White Paint on Conc...
52	-111		1732														
53	-112		1740														
54	-113		1745														Wall Stucco White
55	-114		1750														Door Caulking
56	-115		1758														Window Glazing
57	-116		1810														
58	-117		1820														
59	-118		1825														Window Caulking
~~66~~ 60	-119		1830														
61	-180		1835														
61A	-121		1836														
62	-122		1900														Window Glazing
63	-123		1910														Window Panel
64	-124		1920														Handrail

Company Name: Alta Environmental
Project Contact: Cesar Ruvalcaba
Sampler's Signature: [signature]
Address: 3777 Long Beach Blvd., Annex Bldg.
Tel: 562-495-5777
Project Name/ID: S.M.H.S.
City/State/Zip: Long Beach, California 90807
Fax:

Relinquished by: [signature]	Received by: [signature]	9/8/17 1723 Date & Time	Instructions for Sample Storage After Analysis:
Relinquished by:	Received by:	Date & Time	O Dispose of O Return to Client ☒ Store (30 Days)
Relinquished by:	Received by:	Date & Time	O Other:

CHAIN OF CUSTODY RECORD

Date: 9-8-17

Page 5 of 6

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:

Misc./PO# SMSD-17-7175

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: EPA Method 8082 PCBs	COMMENTS
65	170908-125	9-7-17	1940	Bulk			Ice	X	Door Curb Metal Blue
66	" -126	"	1950	"			"	X	Door Metal Blue

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd., Annex Bldg.
City/State/Zip: Long Beach, California 90807

Project Contact: Cesar Ruvalcaba
Tel: 562-495-5777
Fax:

Sampler's Signature:
Project Name/ID: S.M.H.S.

Relinquished by:
Relinquished by:
Relinquished by:

Received by:
Received by:
Received by:

9/8/17 1230
Date & Time
Date & Time.

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client ☒ Store (30 Days)
O Other:

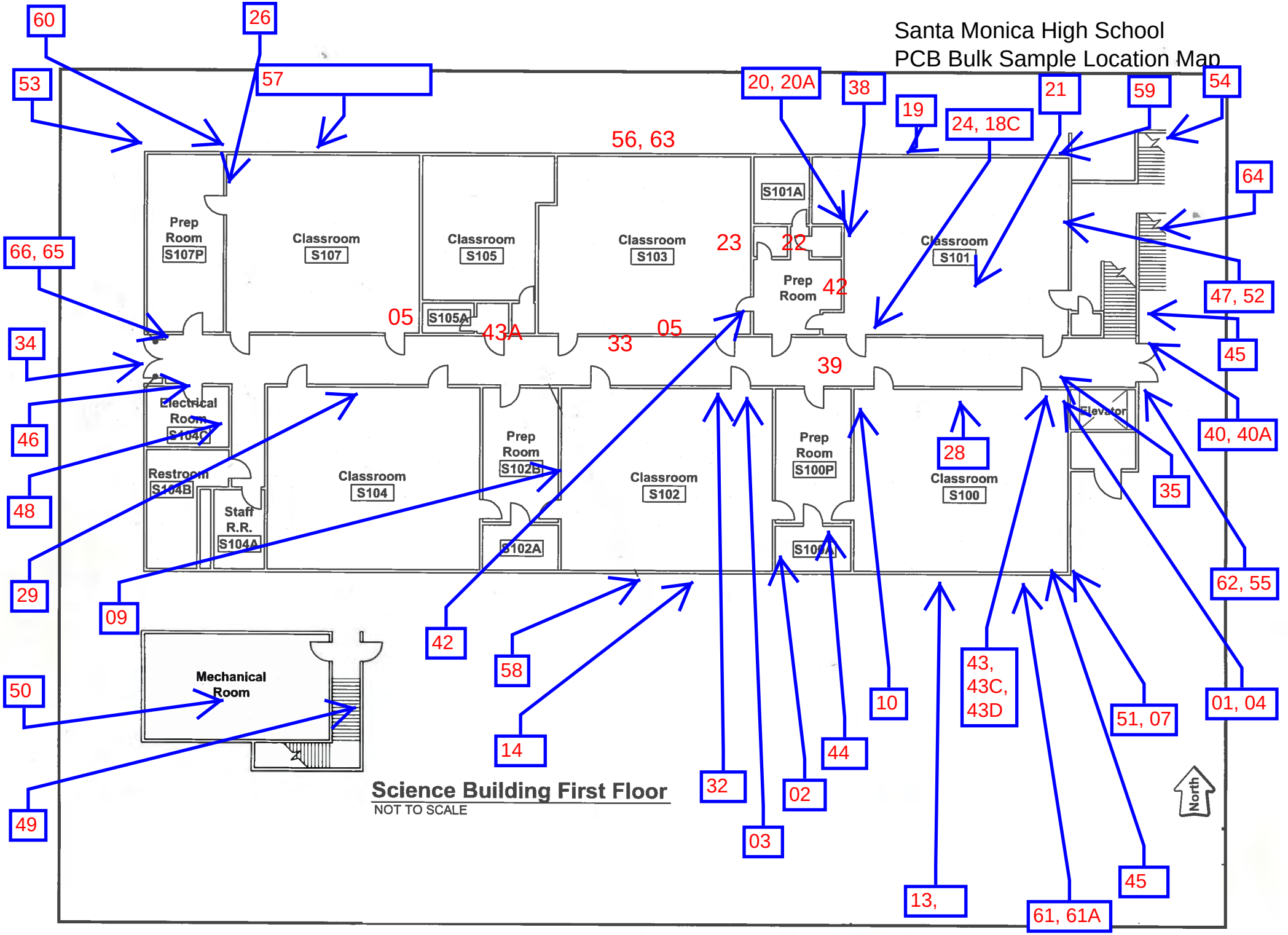
CHAIN OF CUSTODY RECORD

Date: 9-8-17

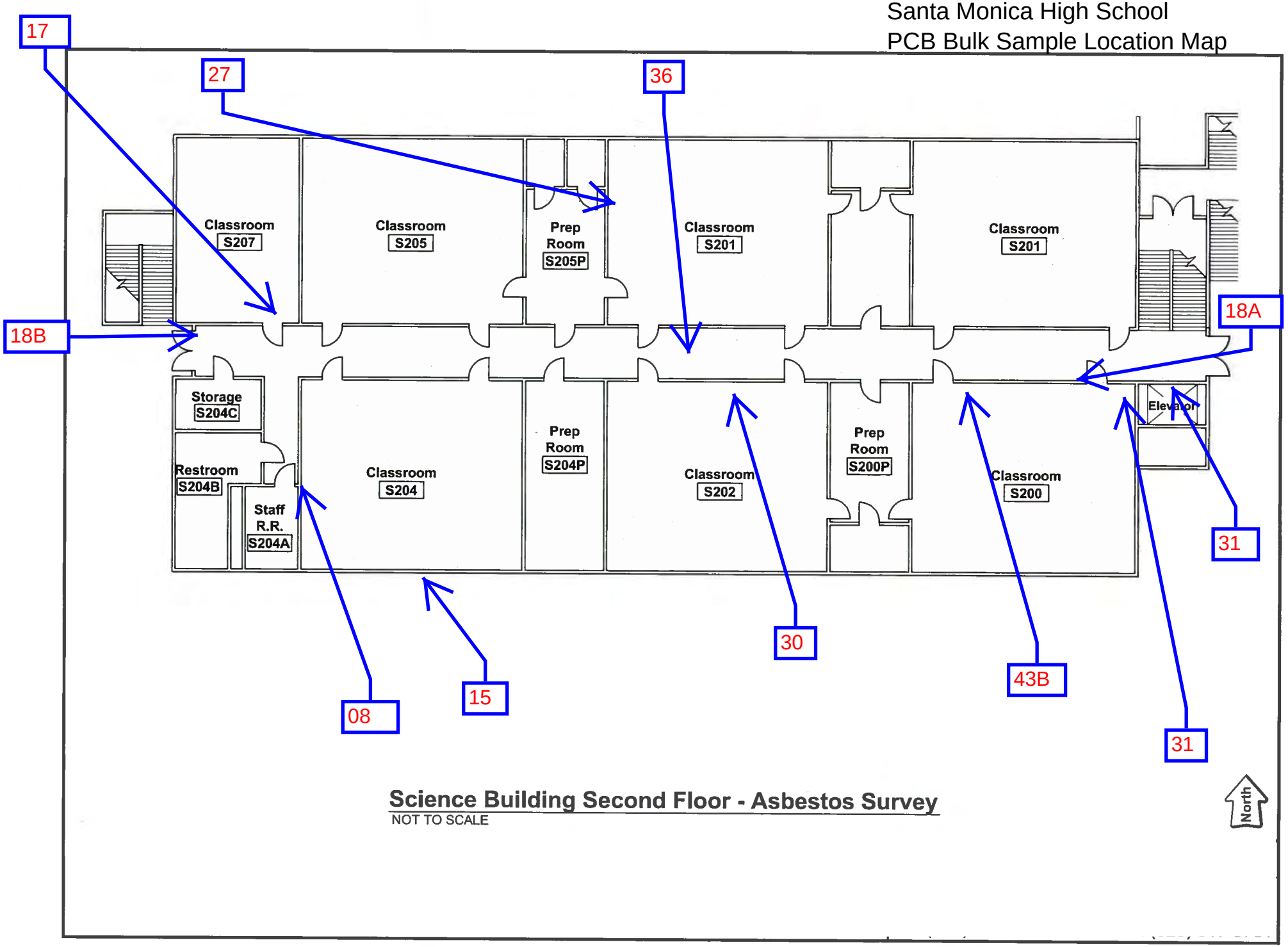
Appendix C

Sample Location Maps

Santa Monica High School
PCB Bulk Sample Location Map



Santa Monica High School
PCB Bulk Sample Location Map



Science Building Second Floor - Asbestos Survey

NOT TO SCALE

Appendix D

Photographs

Santa Monica High School- Science Demolition

01-906

Sample #01

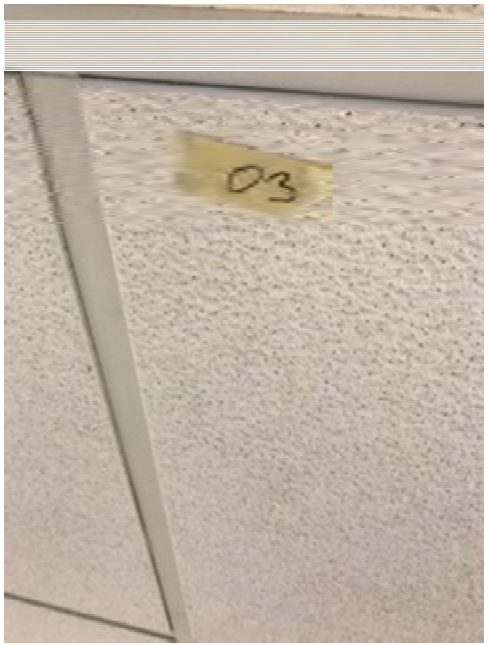
02-906

Sample #02

Santa Monica High School- Science Demolition

03-906

Sample #03



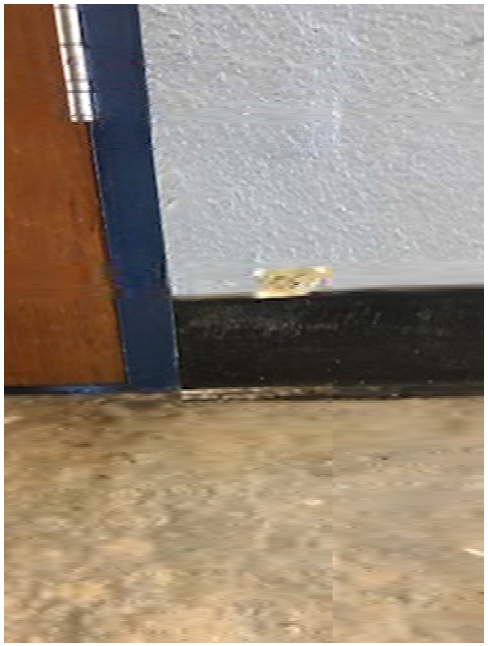
04-906

Sample #04

Santa Monica High School- Science Demolition

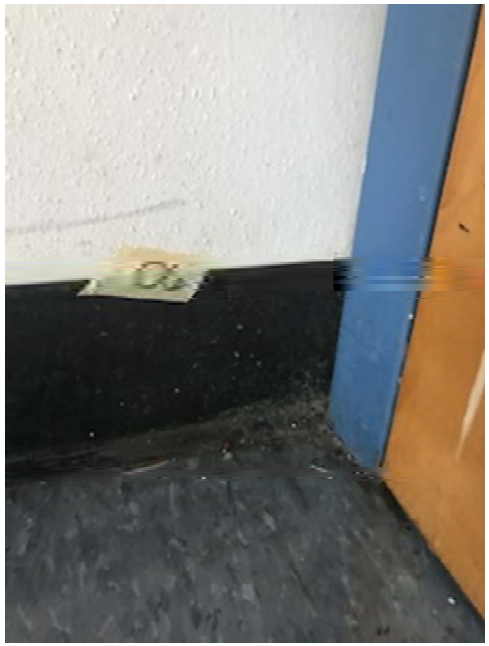
05-906

Sample #05



06-906

Sample #06



Santa Monica High School- Science Demolition

07-906

Sample #07

08-906

Sample #08

Santa Monica High School- Science Demolition

09-906

Sample #09

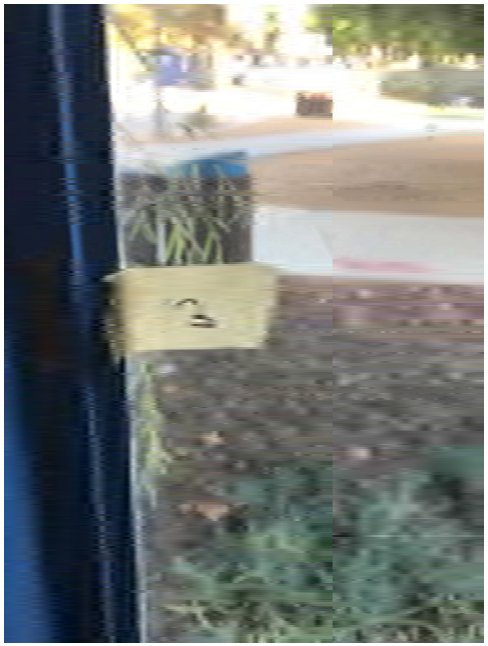
10-906

Sample #10

Santa Monica High School- Science Demolition

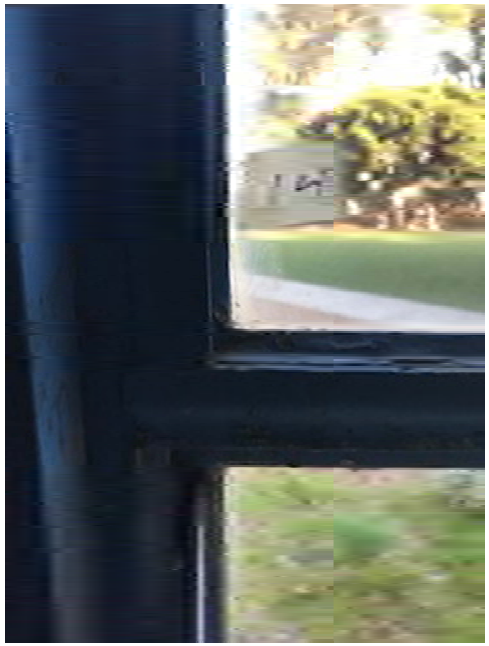
13-906

Sample #13



14-906

Sample #14



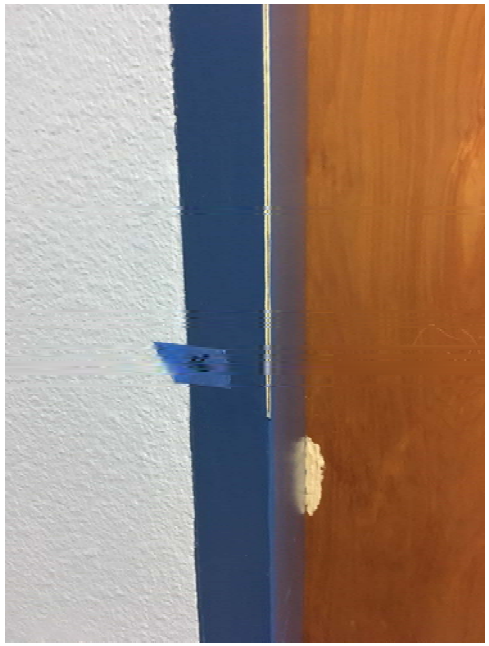
Santa Monica High School- Science Demolition

15-906

Sample #15

16-906

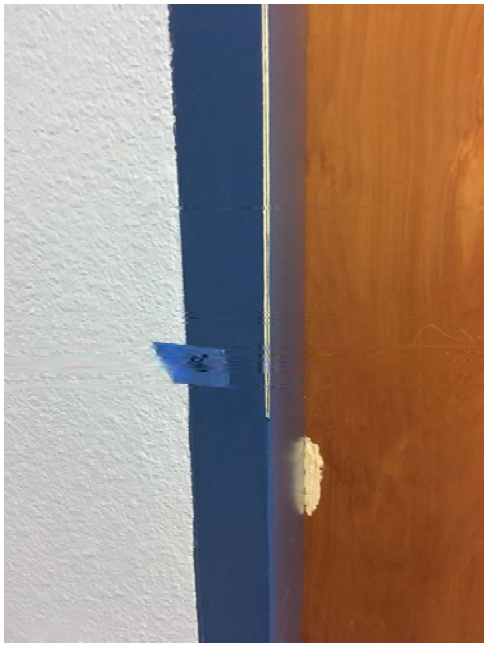
Sample #16



Santa Monica High School- Science Demolition

17-906

Sample #17



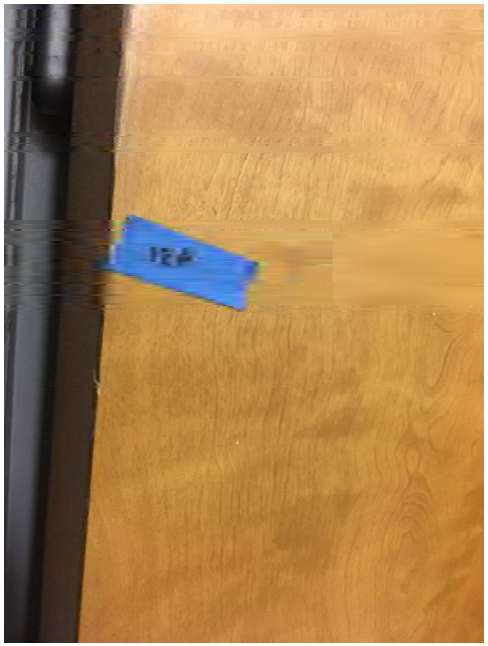
18-906

Sample #18

Santa Monica High School- Science Demolition

18A-906

Sample #18A



18B-906

Sample #18B

Santa Monica High School- Science Demolition

18C-906

Sample #18C

19-906

Sample #19

Santa Monica High School- Science Demolition

20-906

Sample #20

21-906

Sample #21

Santa Monica High School- Science Demolition

22-906

Sample #22

23-906

Sample #23

Santa Monica High School- Science Demolition

24-906

Sample #24

55-907

Sample #25, #26, #27

Santa Monica High School- Science Demolition

49-907
Sample #28, #29, #30, #31

3795-906

Sample #32

- No photo available

Santa Monica High School- Science Demolition

33-906

Sample #33

- No photo available

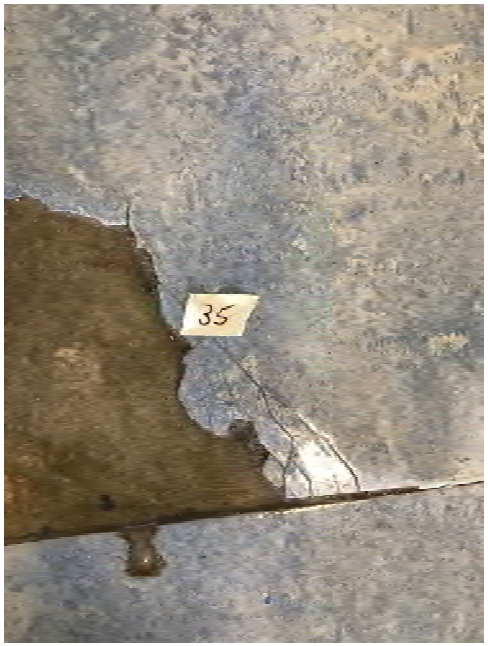
34-906

Sample #34

Santa Monica High School- Science Demolition

35-906

Sample #35



36-906

Sample #36

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37-906

Sample #37

38-906

- No photo available

Santa Monica High School- Science Demolition

39-906

Sample #39

40-906

Sample #40

Santa Monica High School- Science Demolition

41-906

Sample #41

42-906

Sample #42

Santa Monica High School- Science Demolition

43-906

Sample #43

- No photo available

43A-906

Sample #43A

- No photo available

Santa Monica High School- Science Demolition

43B-906

Sample #43B

- No photo available

44-906

Sample #44

- No photo available

Santa Monica High School- Science Demolition

45-907

Sample #45, #46, #47

- No photo available

48-907

Sample #48

- No photo available

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49-907

Sample #45, #46, #47

50-907

Sample #48

- No photo available

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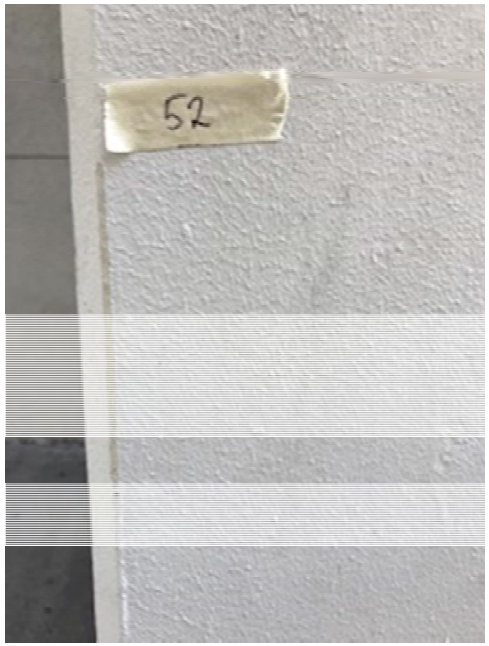
51-907

Sample #51

52-907

Sample #52



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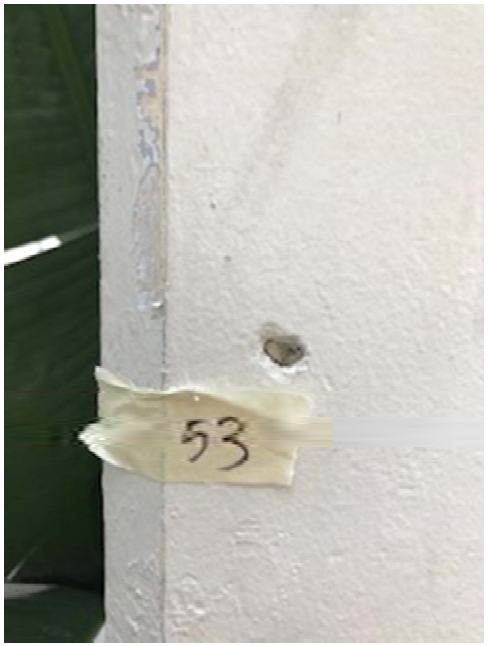
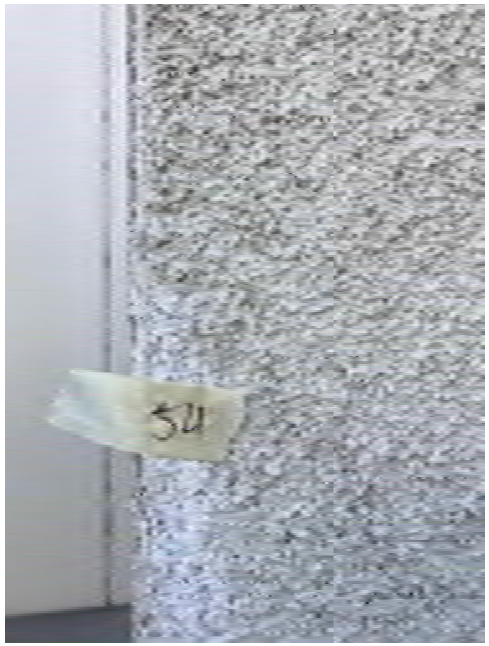
53-907

Sample #53



54-907

Sample #54



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55-907

Sample #55

56-907

Sample #56

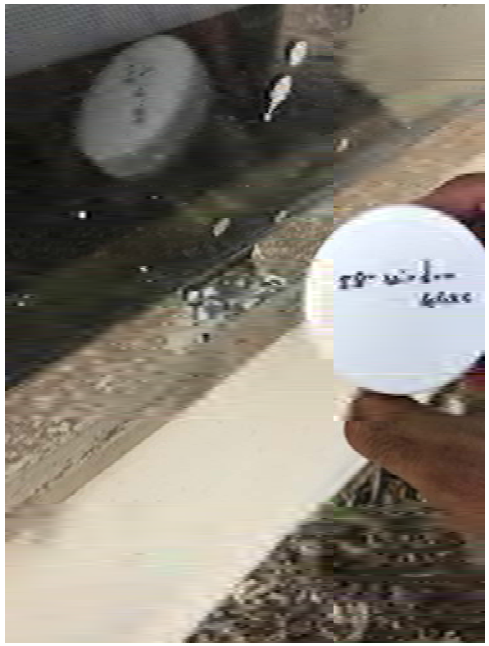
Santa Monica High School- Science Demolition

57-907

Sample #57

58-907

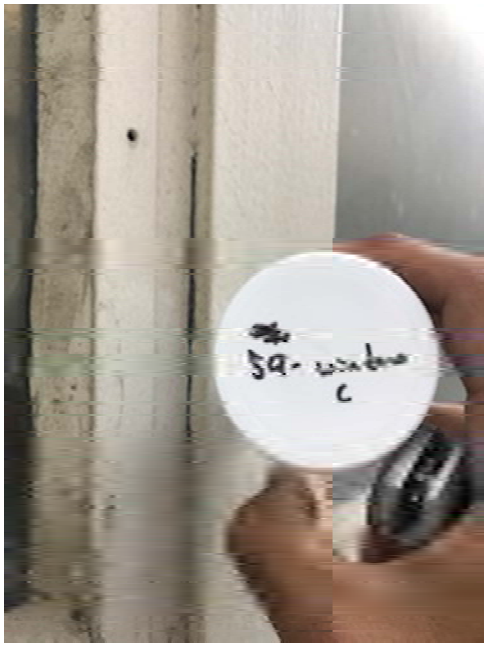
Sample #58



Santa Monica High School- Science Demolition

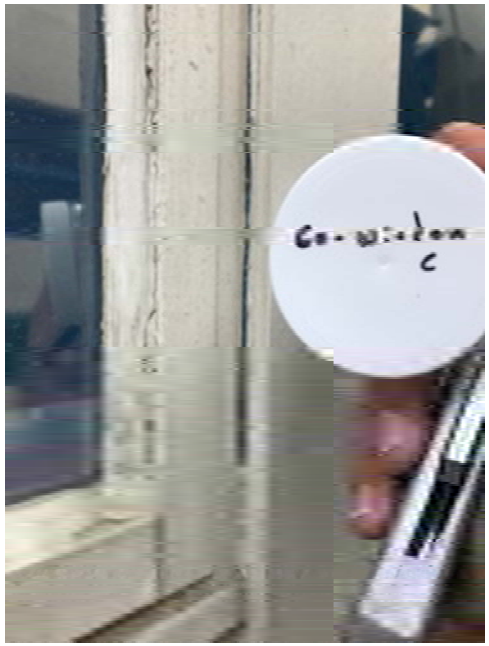
59-907

Sample #59



60-907

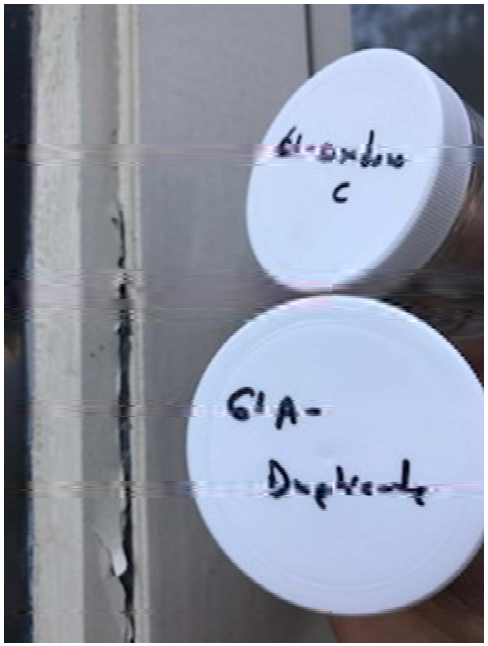
Sample #60



Santa Monica High School- Science Demolition

61-907

Sample #61



62-907

Sample #62

Santa Monica High School- Science Demolition

63-907

Sample #63

64-907

Sample #64

- No photo available

Santa Monica High School- Science Demolition

65-907

Sample #65

66-907

Sample #66