PCB DELINEATION AND SOURCE BULK SAMPLING REPORT

Doors and Windows Replacement Project
McKinley Elementary School
2410 Santa Monica Boulevard
Santa Monica, California 90404

Prepared for:

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

Project No.: SMSD-17-7280

Reported Date: February 1, 2018

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EXECUTIVE SUMMARY

On behalf of the Santa Monica-Malibu Unified School District (District), Alta Environmental (Alta) has prepared this report summarizing the delineation and bulk sampling activities completed in preparation for the replacement of door and window frames in Buildings A, B, C and D at McKinley Elementary School located at 2410 Santa Monica Boulevard, Santa Monica, California 90445. The delineation and bulk sampling activities were conducted to determine the potential presence of polychlorinated biphenyl compounds (PCBs) to characterize materials for off-site waste disposal as a result of the planned work. It is understood that the door and window frames are scheduled to be removed during Summer 2018.

Initially, Alta conducted delineation sampling of representative porous materials installed adjacent to the door and window frames. The delineation sampling was completed from December 4 through December 12, 2018. The objective of the sampling was to determine if suspected PCBs door and window caulking may have migrated to adjacent porous materials. Two window locations were reported with PCBs greater than 1 part per million (ppm). All other sampled locations were reported as non-detected, at the laboratory Actual Detection Limit of 0.5 ppm.

Based on the delineation sampling results, on December 11, December 12, 2017, and January 26, 2018, Alta collected representative source bulk samples of door caulking, and window caulking. The objective of the source sampling was to determine if it contained PCBs above 50 parts per million (ppm). Representative samples of window caulking collected from Building C (K type windows) were reported with PCBs in concentration above 50 ppm. All other source samples were reported as non-detected or below 50 parts per million (ppm).

Based on the delineation and source sampling results and in consultation with the District, the sampled building materials are categorized as follows:

1. PCB Bulk Product Waste-all Type K window frames and porous materials extending to 3” around each window in Building C,
2. Excluded PCB Product-all other components tested (door and window frames) as part of this scope of work.

In Building B, delineation samples (#1205-01, and 1205-02) collected around Type A windows (two windows) from the adjacent exterior stucco were reported with PCB concentrations of 1.83 ppm (1”), and 2.79 ppm at (3”) Aroclor 1254. Alta subsequently collected bulk source samples of the widow caulking immediately adjacent to the delineation sampled area. Both of these source bulk samples were reported as non-detected at the laboratory Detection Limit of 0.5 ppm. The PCBs reported to be present in adjacent building materials during the delineation sampling are assumed to be related to another source(s), or matrix interferences, and are assumed not to be associated with the bulk window caulking (source) based on the subsequent source sampling. Therefore, based on the laboratory report indicating results of no PCBs detected in bulk source window caulking for Type A windows in Building B, it is interpreted that these windows are also Excluded PCB Product.

Removal of the PCB Bulk Product Waste associated with window caulking in Building C and adjacent porous materials should be conducted using proper engineering controls including, but not limited to, containment, worker training, worker protection etc. PCB waste should be characterized, packaged, labelled and disposed as required by TSCA 40 CFR 762 and California hazardous waste regulation set forth in Title 22, Division 4.5 of the California Code of Regulations.

Other building related regulated substances (lead and asbestos) were determined to be present at the subject locations and 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: February 1, 2018 **PROJECT NO.:** SMSD-17-7280

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

ATTENTION: Mr. Chris Emmett

REF: PCB Delineation and Source Bulk Sampling Report
Door and Window Frame Replacement Project
McKinley Elementary School
2410 Santa Monica Boulevard
Santa Monica, California 90404

1 INTRODUCTION/BACKGROUND

The United States Environmental Protection Agency (USEPA) believes that there was a potentially widespread use of PCB-containing building materials in schools and other buildings built or renovated between 1950 and 1979. Historically, PCBs were used as a primary source as a plasticizing agent in caulking and glazing materials, as additives to paints and floor finishes, as a sealant for heating systems and plumbing, and as insulators in ballasts 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.

Based on information provided by the District, the affected buildings were constructed prior to 1980, which indicates a potential for the door caulking and window caulking to contain PCBs. The building construction dates are listed below:

- 1951, Building A
- 1923, Building B
- 1923, Building C
- 1973, Building D

Additionally, PCBs in manufactured materials such as door caulking and window caulking may move directly into adjoining materials, particularly porous materials such as wood, concrete, and other types of masonry. In schools with manufactured PCB sources, many kinds of building material have been found to have measurable levels of PCBs and are potential secondary PCB sources.

2 PURPOSE OF INSPECTION AND SAMPLING

Building materials included in this report were evaluated for PCBs only. A survey of asbestos-containing materials (ACMs) and lead-based paint (LBP) has been completed for this project. The 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 a representative indication of the variety of potentially PCB-impacted materials
- Draw conclusions of 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 material 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 are 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 source bulk materials containing <50 ppm.

3 SCOPE OF SERVICES

The District retained Alta for the delineation and subsequent source bulk sampling (Alta proposal dated, October 11, 2017).

The sampling was completed in accordance with the *USEPA Region I Standard Operation Procedures for Sampling Porous Surfaces for Polychlorinated Biphenyl* (USEPA 2011).

The delineation sampling and source bulk sampling was completed in Buildings A, B, C, and D and was representative of the door and window frames scheduled to be removed and replaced as per DSA approved project drawings prepared by Rachlin Architects, dated September 22, 2017.

Initially, Alta completed delineation sampling, at a minimum 10% of representative components with porous materials were selected for sampling. The sampling was completed starting at one-inch (1″), three-inch (3″) and six-inch (6″) intervals away from the selected door and window frames, representative of a surface depth of 0-.5″ of substrate material.

Following the delineation sampling, Alta collected source bulk samples representative of door and window frames. Materials which are applied in a similar manner, had similar characteristic such as size, use, color, age of the building, and texture, were defined as homogeneous materials.

Homogeneous materials were sampled representative of each building. Alta collected a minimum of three representative random samples of each homogeneous material. In cases where limited components were identified, (less than 3) at least one representative sample was collected.

Alta's delineation and source bulk sampling were completed as follows:

1. A one-inch drill, screwdriver, razor blade, chisel, or similar tool was used to collect the samples.
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 labelled, 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.
8. Waste was packaged on site inside one one-gallon bucket and labeled for disposal at a later date.

4 METHODOLOGY

The Actual Detection Limit (DL) used by the laboratory for analysis of the primary samples was 0.5 ppm. In some cases, the DL was raised above 1ppm due to matrix interferences, but in those cases, the DL did not exceed ≥ 50 ppm, which is currently being used as approved by the USEPA to defined PCB Bulk Product Waste.

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

5 RESULTS

Table 1.0
Summary of Collected Samples

Building A (1951 Construction)				
Component Sampled	**Total components to be removed**	**Sample Description**	**Sample Numbers**	**Result (PPM) (Aroclor 1254)**
Door Type A	4	Delineation sample - plaster (1”)	A-1	Non-Detected
		Source door caulking	1228-02	Non-Detected
Door Type B	1	Delineation sample - plaster (1”)	A-4	Non-Detected
		Source door caulking	1228-01	Non-Detected

Building B (1923 Construction)				
Component Sampled	**Total components to be removed**	**Sample Description**	**Sample Numbers**	**Result (PPM) (Aroclor 1254)**
Door Type A	7	Delineation sample - drywall, particle board (1”), (3”), (6”)	1204-01, 1204-02, 1204-03 1205-13, 1205-14, 1205-15 1205-16, 1205-17, 1205-18	Non-Detected
		Source door caulking	1228-03, 1228-04, 1228-05	Non-Detected
Door Type B	3	Delineation sample - plaster, stucco (1”), (3”), (6”)	1204-23, 1204-24, 1204-25 1204-26, 1204-27, 1204-28	Non-Detected
		Source door caulking	1228-06, 1228-07, 1228-08	Non-Detected
Door Type D	Door type D, are future doors to be installed during project. No door casings were observed during the inspection. No sampling required.			
Window Type A	2	Delineation sample - Stucco Stucco Stucco Plaster Plaster Plaster	 1205-01 1205-02 1205-03 1205-04 1205-05 1205-06	 1.83 (1”) 2.79 (3”) Non-detected (6”) Non-detected (1”) Non-detected (3”) Non-detected (6”)
		Source window caulking	1228-09 1228-10	Non-Detected
Window Type B	5	Delineation sample - plaster, stucco (1”), (3”), (6”)	1204-16, 1204-17, 1204-18 1204-19, 1204-20, 1204-21 1204-22	Non-Detected
		Source window caulking	1228-11, 1228-12, 1228-13	Non-Detected
Window Type D	7	Delineation sample - plaster, stucco (1”), (3”), (6”)	1204-04, 1204-05, 1204-06 1204-07, 1204-08, 1204-09	Non-Detected
		Source window caulking	1228-14, 1228-15, 1228-16	Non-Detected

Building B (1923 Construction)-continue				
Component Sampled	**Total components to be removed**	**Sample Description**	**Sample Numbers**	**Result (PPM) (Aroclor 1254)**
Window Type E	3	Delineation sample - plaster, stucco (1”), (3”), (6”)	1205-07, 1205-08, 1205-09 1205-10, 1205-11, 1205-12	Non-Detected
		Source window caulking	1228-17, 1228-18, 1228-19	Non-Detected
Window Type F	16	Delineation sample - plaster, stucco, drywall, particle board (1”), (3”), (6”)	1204-10, 1204-11, 1204-12 1204-13, 1204-14, 1204-15 1204-29, 1204-31, 1204-32 1205-19, 1205-21, 1205-22	Non-Detected
		Source window caulking	1228-20, 1228-21, 1228-22	Non-Detected

Building C (1923 Construction)				
Component Sampled	**Total components to be removed**	**Sample Description**	**Sample Numbers**	**Result (PPM) (Aroclor 1254)**
Door Type A	25	Delineation sample – plaster, stucco (1”), (3”), (6”)	1211-13, 1211-14, 1211-15 1211-16, 1211-17, 1211-18 1211-31, 1211-32, 1211-33 1211-34, 1211-35, 1211-36 1212-47, 1212-48, 1212-49	Non-Detected
		Source door caulking	1227-03, 1227-04, 1227-05	Non-Detected
Door Type B	11	Delineation sample – plaster, stucco (1”), (3”), (6”)	1211-01, 1211-02, 1211-03 1211-04, 1211-05, 1211-06 1211-26, 1211-27, 1211-28 1211-29, 1211-31, 1211-32	Non-Detected
		Source door caulking	1227-12, 1227-13, 1227-14	Non-Detected
Door Type C	9	Delineation sample – plaster, stucco (1”), (3”), (6”)	1211-07, 1211-08, 1211-09 1211-10, 1211-11, 1211-12	Non-Detected
		Source door caulking	1227-17, 1227-18, 1227-19	Non-Detected
Door Type D	Door type D are associated with wood heater closets. No caulking observed. No sampling was required.			
Door Type D.2	2	Delineation sample – plaster (1”), (3”), (6”)	1205-28, 1205-29, 1205-30	Non-Detected
		Source door caulking	1227-01, 1227-02	Non-Detected
Door Type E	1	Delineation sample – plaster, stucco (1”), (3”), (6”)	1211-19, 1211-21, 1211-22 1211-23, 1211-24, 1211-25	Non-Detected
		Source door caulking	1227-20	Non-Detected

Building C (1923 Construction)-continue				
Component Sampled	**Total components to be removed**	**Sample Description**	**Sample Numbers**	**Result (PPM) (Aroclor 1254)**
Window Type G	2	Delineation sample – wood, stucco (1”), (3”), (6”)	1212-23, 1212-24, 1212-25 1212-26, 1212-27	Non-Detected
		Source window caulking	1227-22, 1227-23	Non-Detected
Window Type H	12	Delineation sample – wood, stucco (1”), (3”), (6”)	1212-12, 1212-13, 1212-14 1212-15, 1212-16, 1212-33 1212-34, 1212-35, 1212-36 1212-37	Non-Detected
		Source window caulking	1227-27, 1227-28, 1227-29	Non-Detected
Window Type K	**14**	**Delineation sample – Wood Wood Stucco Stucco Stucco Stucco Stucco Stucco**	**1212-07 1212-08 1212-09 1212-10 1212-11 1212-44 1212-45 1212-46**	**Non-detected (1”) Non-detected (3”) Non-detected (1”) Non-detected (3” Non-detected (6”) 2.25 (1”) Non-detected (3”) Non-detected (6”)**
		Source window caulking	**1227-31 1227-32 1227-33 012618JR-01**	**Non-Detected Non-Detected Non-Detected 2,100**
Window Type L	3	Delineation sample – wood, stucco (1”), (3”), (6”)	1212-17, 1212-18, 1212-19 1212-20, 1212-22	Non-Detected
		Source window caulking	1227-30, 1227-34, 1227-35	Non-Detected
Window Type N	6	Delineation sample – wood, stucco (1”), (3”), (6”)	1212-28, 1212-29,1212-30, 1212-31, 1212-32	Non-Detected
		Source window caulking	1227-24, 1227-25,1227-26	Non-Detected

Building C (1923 Construction)-continue				
Component Sampled	**Total components to be removed**	**Sample Description**	**Sample Numbers**	**Result (PPM) (Aroclor 1254)**
Window Type P	22	Delineation sample – wood, stucco (1”), (3”), (6”)	1205-23, 1205-24, 1205-25, 1205-26, 1205-27, 1205-48, 1205-49, 1205-50, 1205-51, 1205-52, 1212-38, 1212-39, 1212-40, 1212-41, 1212-43	Non-Detected
		Source window caulking	1227-09, 1227-10, 1227-11 1227-12	Non-Detected
Window Type Q	2	Delineation sample – wood, stucco (1”), (3”), (6”)	1205-37, 1205-38, 1205-39 1205-41, 1205-42	Non-Detected
		Source window caulking	1227-06, 1227-07	Non-Detected
Window Type Z	2	Delineation sample – wood, stucco (1”), (3”), (6”)	1205-43, 1205-44, 1205-45 1205-46, 1205-47	Non-Detected
		Source window caulking	1227-08, 1227-16	Non-Detected
Window Type Y	1	Delineation sample – stucco, interior dashcoat (1”), (3”), (6”)	1212-01, 1212-02, 1212-03 1212-04, 1212-05, 1212-06	Non-Detected

Building D (1973 Construction)				
Component Sampled	**Total components**	**Sample Description**	**Sample Numbers**	**Result (PPM) (Aroclor 1254)**
Door Type A	8	Delineation sample - stucco, drywall, particle board (1”)	A-34, A-37, A-40	Non-Detected
		Source door caulking	1228-27, 1228-28, 1228-29	Non-Detected
Door Type C	3	Delineation sample - stucco and drywall (1”)	A-7, A-10	Non-Detected
		Source door caulking	1228-24, 1228-25, 1228-26	Non-Detected
Window Type T	3	Delineation sample- stucco, drywall with wood veneer (1”)	A-13 A-16	Non-Detected
		Source window caulking	1228-30, 1228-31, 1228-32	Non-Detected
Window Type W1	1	Delineation sample - stucco and drywall (1”)	A-19, A-22	Non-Detected
		Source window caulking	1228-35, 1228-36,1228-337	Non-Detected
Window Type W2	4	Delineation sample - stucco, drywall, particle board (1”)	A-25, A-28, A-31	Non-Detected
		Source window caulking	1228-33, 1228-34, 1228-33 1228-39	Non-Detected

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

Primary samples included the following: A total of 144 delineation samples were collected and analyzed by the laboratory. Additionally, 73 source bulk samples were also collected and analyzed by the laboratory.

In addition to the primary samples, Alta collected eleven duplicate samples. The duplicate samples were collected side by side next to the primary sample.

In addition to the primary and duplicate samples, one split-duplicate sample was also collected. The sample was homogenized and split into two identical samples. The split sample was assigned a unique blind selected sample number.

All primary samples, duplicate and split duplicates were placed in an appropriate glass jar with a Teflon cap provided by the laboratory. Samples were labeled and packaged in a cooler and kept cool with ice during shipment.

The laboratories reported all quality control (QC) data associated with the primary sample analysis and split duplicate sample, the recovery and precision within the acceptable limits of the laboratory.

Several duplicate samples were reported with a Reporting Limit which may be interpreted to be higher than 50ppm. According to the laboratory report, the higher RL was due to sample volume received which was less than the required resulting in an elevated reporting limit. The samples were reported as non-detected.

Sample extraction and analysis was completed by a California State Environmental Laboratory Accreditation Program (ELAP) accredited laboratory.

All primary samples, and split duplicate samples were analyzed by Enviro-Chem, located at 1214 East Lexington Avenue, Pomona, California (ELAP ID #1555).

Duplicate samples were analyzed by Eurofins/Calscience, located at 7440 Lincoln Way, Garden Grove, California (ELAP ID #2944).

7 CONCLUSIONS

Based on the delineation and source sampling results and in consultation with the District, the sampled building materials are categorized as follows:

1. PCB Bulk Product Waste-all Type K window frames and porous materials extending to 3" around each window in Building C,
2. Excluded PCB Product-all other components tested (door and window frames) as part of this scope of work.

In Building B, delineation samples (#1205-01, and 1205-02) collected around Type A windows (two windows) from the adjacent exterior stucco were reported with PCB concentrations of 1.83 ppm (1"), and 2.79 ppm at (3") Aroclor 1254. Alta subsequently collected bulk source samples of the widow caulking immediately adjacent to the delineation sampled area. Both of these source bulk samples were reported as non-detected at the laboratory Detection Limit of 0.5 ppm. The PCBs reported to be present in adjacent building materials during the delineation sampling are assumed to be related to another source(s), or matrix interferences, and are assumed not to be associated with the bulk window caulking (source) based on the subsequent source sampling. Therefore, based on the laboratory report indicating results of no PCBs detected in bulk source window caulking for Type A windows in Building B, it is interpreted that these windows are also Excluded PCB Product.

Removal of the PCB Bulk Product Waste associated with window caulking in Building C and adjacent porous materials should be conducted using proper engineering controls including, but not limited to containment, worker training, worker protection etc. PCB waste should be characterized, packaged, labeled and disposed as required by TSCA 40 CFR 762 and California hazardous waste regulation set forth in Title 22, Division 4.5 of the California Code of Regulations.

Other building related regulated substances (lead and asbestos) were determined to be present at the subject locations and 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

ACMs and LBPs have previously been identified at the site and are described 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 which is to be used for the removal and waste disposal of ACM and LBP.

9 ASSUMPTIONS AND LIMITATIONS

Alta's sampling was limited to door caulking, window caulking and surrounding porous materials in affected components scheduled to be removed in Buildings A, B, C, and D. 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 the demolition of the building components.

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's express written permission. The information, conclusions and recommendations described in this report apply to conditions existing at certain locations when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. Alta cannot be responsible for the impact of any changes in environmental standards, practices or regulations after the 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 has relied in good faith upon representations and information furnished by individuals with respect to operations and existing property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, Alta accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

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

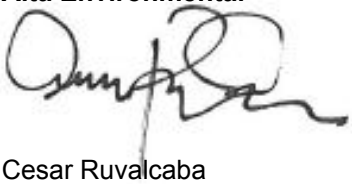
This report is issued with the understanding that the client, the property owner, or its representative is responsible for ensuring that the information, conclusions, and recommendations contained herein are brought to the attention of the appropriate regulatory agencies, as required.

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

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/04/17

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
B	Door A B110D	1204-01	Rough wall plaster	interior, 2nd floor, north end, room B110D west side of door, 2 ft. up , 1"	Non-detected	1520
B	Door A B110D	1204-02	Rough wall plaster	interior, 2nd floor, north end, room B110D west side of door, 2 ft. up , 3"	Non-detected	1535
B	Door A B110D	1204-03	Rough wall plaster	interior, 2nd floor, north end, room B110D west side of door, 2 ft. up , 6"	Non-detected	1550
B	Window D WB102	1204-04	Rough wall plaster	interior, 1st floor, room 110, north wall, 6 ft. up, 1"	Non-detected	1608
B	Window D WB102	1204-05	Rough wall plaster	interior, 1st floor, room 110, north wall, 6 ft. up, 3"	Non-detected	1625
B	Window D WB102	1204-06	Rough wall plaster	interior, 1st floor, room 110, north wall, 6 ft. up, 6"	Non-detected	1640
B	Window D WB102	1204-07	Stucco on concrete	exterior, 1st floor, room 110, north wall, 6 ft. up, 1"	Non-detected	1657
B	Window D WB102	1204-08	Stucco on concrete	exterior, 1st floor, room 110, north wall, 6 ft. up, 3"	Non-detected	1715
B	Window D WB102	1204-09	Stucco on concrete	exterior, 1st floor, room 110, north wall, 6 ft. up, 6"	Non-detected	1732
B	Window F WB134	1204-10	Rough wall plaster	interior, 1st floor, room 110, south wall, 5 ft. up, 1"	Non-detected	1744
B	Window F WB134	1204-11	Rough wall plaster	interior, 1st floor, room 110, south wall, 5 ft. up, 3"	Non-detected	1801
B	Window F WB134	1204-12	Rough wall plaster	interior, 1st floor, room 110, south wall, 5 ft. up, 6"	Non-detected	1823
B	Window F WB134	1204-13	Stucco on concrete	exterior, 1st floor, room 110, south wall, 5 ft. up, 1"	Non-detected	1830
B	Window F WB134	1204-14	Stucco on concrete	exterior, 1st floor, room 110, south wall, 5 ft. up, 3"	Non-detected	1850
B	Window F WB134	1204-15	Stucco on concrete	exterior, 1st floor, room 110, south wall, 5 ft. up, 6"	Non-detected	1905

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/04/17

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
B	Window B WB130	1204-16	Rough wall plaster	interior, 1st floor, room 110, east side of window,5 ft. up, 1"	Non-detected	1919
B	Window B WB130	1204-17	Rough wall plaster	Side by side duplicate of 1204-16	Non-detected	1932
B	Window B WB130	1204-18	Rough wall plaster	interior, 1st floor, room 110, east side of window,5 ft. up, 3"	Non-detected	1952
B	Window B WB130	1204-19	Rough wall plaster	interior, 1st floor, room 110, east side of window,5 ft. up, 6"	Non-detected	2011
B	Window B WB130	1204-19A	Rough wall plaster	Side by side duplicate fo 1204-19	Non-detected	2033
B	Window B WB130	1204-20	Stucco on concrete	1st floor, room 110, east side of window,5 ft. up, 1"	Non-detected	2051
B	Window B WB130	1204-21	Stucco on concrete	1st floor, room 110, east side of window,5 ft. up, 3"	Non-detected	2110
B	Window B WB130	1204-22	Stucco on concrete	1st floor, room 110, east side of window,5 ft. up, 6"	Non-detected	2128
B	Door B B108AB	1204-23	Rough wall plaster	Room 108A, on west side of door, 3 ft. up, 1 "	Non-detected	2138
B	Door B B108AB	1204-24	Rough wall plaster	Room 108A, on west side of door, 3 ft. up, 3 "	Non-detected	2155
B	Door B B108AB	1204-25	Rough wall plaster	Room 108A, on west side of door, 3 ft. up, 6 "	Non-detected	2220
B	Door B B108AB	1204-26	Stucco on concrete	Room 108A, on west side of door, 3 ft. up, 1 "	Non-detected	2230
B	Door B B108AB	1204-27	Stucco on concrete	Room 108A, on west side of door, 3 ft. up, 3 "	Non-detected	2235
B	Door B B108AB	1204-28	Stucco on concrete	Room 108A, on west side of door, 3 ft. up, 6 "	Non-detected	2244
B	Window F WB123	1204-29	Rough wall plaster	Room 108, window on southwest corner, 3 ft. up, 1"	Non-detected	2256
B	Window F WB123	1204-30	Rough wall plaster	side by side duplicate of 1204-29	Non-detected	2308
B	Window F WB123	1204-31	Rough wall plaster	Room 108, window on southwest corner, 3 ft. up, 3"	Non-detected	2320

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/04/17

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
B	Window F WB123	1204-32	Rough wall plaster	Room 108, window on southwest corner, 3 ft. up, 6" (split set)	Non-detected	2323
B	Window F WB123	1204-33	Rough wall plaster	Split sample with 1204-32	Non-detected	2345

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/05/2017

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
A	Door Type A (D97A)	A-1	Plaster	Cafeteria Door 97A- East End 2' up, 1"	Non-detected	1601
A	Door Type B (D98B)	A-4	Plaster	Door A98B West End 4' up, 1"	Non-detected	1630
D	Door Type C (D72B)	A-7	Stucco	Heater Closet- Entry Door West End, 1"	Non-detected	1700
D	Door Type C (D78B)	A-10	Drywall	Heater Closet- Entry Door West End, 1"	Non-detected	1718
D	Window Type T (WD101)	A-13	Stucco (Exterior)	Boys' Restroom North Center Window 6' up, 1"	Non-detected	1729
D	Window Type T (WD101)	A-16	Drywall with wood veneer	Boys' Restroom North Center Window 6' up, 1"	Non-detected	1740
D	Window Type W1 (WD104)	A-19	Stucco (Exterior)	Office North Center Window 3' up, 1"	Non-detected	1746
D	Window Type W1 (WD104)	A-22	Drywall	Office North Center Window 3' up, 1"	Non-detected	1753
D	Window Type W2 (WD106)	A-25	Partial Board	Room 70 East Center Window 4' up (Interior), 1"	Non-detected	1817
D	Window Type W2 (WD106)	A-28	Drywall	Room 70 East Center Window 4' up (Interior), 1"	Non-detected	1840
D	Window Type W2 (WD106)	A-31	Stucco (Exterior)	Room 70 East Center Window 4' up (Exterior), 1"	Non-detected	1850
D	Door Type A (D70A)	A-34	Stucco	Room 70 South Entry Door 4' up, 1"	Non-detected	1900
D	Door Type A (D70A)	A-34A	Stucco Duplicate	Side by side duplicate sample of A-34	Non-detected	1910
D	Door Type A (D70A)	A-37	Partial Board	Room 70 South Entry Door 4' up, 1"	Non-detected	1920
D	Door Type A (D70A)	A-40	Drywall	Room 70 South Entry Door 4' up, 1"	Non-detected	2000
B	Window A WB112	1205-01	Stucco on concrete	Exterior, southeast end, 5ft up, 1"	1.83	1533
B	Window A WB112	1205-02	Stucco on concrete	Exterior, southeast end, 5ft up, 3"	2.79	1540
B	Window A WB112	1205-03	Stucco on concrete	Exterior, southeast end, 5ft up, 6"	Non-detected	1548
B	Window A WB112	1205-04	Rough wall plaster	Interior, janitor's closet, 1"	Non-detected	1555
B	Window A WB112	1205-05	Rough wall plaster	Interior, janitor's closet, 3"	Non-detected	1605
B	Window A WB112	1205-06	Rough wall plaster	Interior, janitor's closet, 6"	Non-detected	1620

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/05/2017

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
B	Window E WB110	1205-07	Stucco on concrete	Exterior, east end, northeast window, 4ft. Up, 1"	Non-detected	1625
B	Window E WB110	1205-08	Stucco on concrete	Exterior, east end, northeast window, 4ft. Up, 3"	Non-detected	1633
B	Window E WB110	1205-09	Stucco on concrete	Exterior, east end, northeast window, 4ft. Up, 6"	Non-detected	1640
B	Window E WB110	1205-10	Rough wall plaster	Interior, east end, northeast window, 4ft. Up, 1"	Non-detected	1648
B	Window E WB110	1205-11	Rough wall plaster	Interior, east end, northeast window, 4ft. Up, 3"	Non-detected	1700
B	Window E WB110	1205-12	Rough wall plaster	Interior, east end, northeast window, 4ft. Up, 6"	Non-detected	1705
B	Door A B107A	1205-13	Drywall	Interior, room 107A door, 3ft. Up, 1"	Non-detected	1715
B	Door A B107A	1205-14	Drywall	Interior, room 107A door, 3ft. Up, 3"	Non-detected	1730
B	Door A B107A	1205-15	Drywall	Interior, room 107A door, 3ft. Up, 6"	Non-detected	1738
B	Door A B107A	1205-16	Particle board	Interior, room 107A door, 3ft. Up, 1"	Non-detected	1745
B	Door A B107A	1205-17	Particle board	Interior, room 107A door, 3ft. Up, 3"	Non-detected	1755
B	Door A B107A	1205-18	Particle board	Interior, room 107A door, 3ft. Up, 6"	Non-detected	1802
B	Window F WB123	1205-19	Stucco on concrete	Exterior, room 108 south window on left side, 4ft up, 1"	Non-detected	1810
B	Window F WB123	1205-20	Stucco on concrete	Side by side duplicate of sample number 1205-19	Non-detected	1816
B	Window F WB123	1205-21	Stucco on concrete	Exterior, room 108 south window on left side, 4ft up, 3"	Non-detected	1822
B	Window F WB123	1205-22	Stucco on concrete	Exterior, room 108 south window on left side, 4ft up, 6"	Non-detected	1830
C	Window P WC145	1205-23	Wood frame	Interior, 2nd window from southeast corner, 4 ft. up, 1"	Non-detected	1836

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/05/2017

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
C	Window P WC145	1205-24	Wood frame	Interior, 2nd window from southeast corner, 4 ft. up, 3"	Non-detected	1843
C	Window P WC145	1205-25	Stucco on concrete	Exterior, 2nd window from southeast corner, 4 ft. up, 1"	Non-detected	1850
C	Window P WC145	1205-26	Stucco on concrete	Exterior, 2nd window from southeast corner, 4 ft. up, 3"	Non-detected	1900
C	Window P WC145	1205-27	Stucco on concrete	Exterior, 2nd window from southeast corner, 4 ft. up, 6"	Non-detected	1912
C	Door D.2 E96E	1205-28	Rough wall plaster	Northeast interior door, 4 ft. up, 1"	Non-detected	1926
C	Door D.2 E96E	1205-29	Rough wall plaster	Northeast interior door, 4 ft. up, 3"	Non-detected	1934
C	Door D.2 E96E	1205-30	Rough wall plaster	Northeast interior door, 4 ft. up, 6"	Non-detected	1940
C	Door A C96E	1205-31	Rough wall plaster	Interior, southwest door by stage on right side, 4 ft. up, 1"	Non-detected	1948
C	Door A C96E	1205-32	Rough wall plaster	Interior, southwest door by stage on right side, 4 ft. up, 3"	Non-detected	1955
C	Door A C96E	1205-33	Rough wall plaster	Interior, southwest door by stage on right side, 4 ft. up, 6"	Non-detected	2005
C	Door A C96E	1205-34	Stucco on concrete	Exterior, southwest door by stage on right side, 4 ft. up, 1"	Non-detected	2012
C	Door A C96E	1205-35	Stucco on concrete	Exterior, southwest door by stage on right side, 4 ft. up, 3"	Non-detected	2019
C	Door A C96E	1205-36	Stucco on concrete	Exterior, southwest door by stage on right side, 4 ft. up, 6"	Non-detected	2024
C	Window Q WC153	1205-37	Wood frame	Southwest window on left side of window, 5 ft. up, 1"	Non-detected	2030
C	Window Q WC153	1205-38	Wood frame	Southwest window on left side of window, 5 ft. up, 3"	Non-detected	2035

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/05/2017

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
C	Window Q WC153	1205-39	Stucco on concrete	Exterior, southwest window on left side of window, 5 ft. up, 1"	Non-detected	2042
C	Window Q WC153	1205-40	Stucco on concrete	Side by side duplicate of 1205-39	Non-detected	2046
C	Window Q WC153	1205-41	Stucco on concrete	Exterior, southwest window on left side of window, 5 ft. up, 3"	Non-detected	2050
C	Window Q WC153	1205-42	Stucco on concrete	Exterior, southwest window on left side of window, 5 ft. up, 6"	Non-detected	2055
C	Window Z WC155	1205-43	Wood frame	Interior, northwest window, 4ft. Up on right side, 1"	Non-detected	2059
C	Window Z WC155	1205-44	Wood frame	Interior, northwest window, 4ft. Up on right side, 3"	Non-detected	2110
C	Window Z WC155	1205-45	Stucco on concrete	Exterior, northwest window, 4ft. Up on right side, 1"	Non-detected	2115
C	Window Z WC155	1205-46	Stucco on concrete	Exterior, northwest window, 4ft. Up on right side, 3"	Non-detected	2122
C	Window Z WC155	1205-47	Stucco on concrete	Exterior, northwest window, 4ft. Up on right side, 6"	Non-detected	2229
C	Window P WC1258	1205-48	Wood frame	North window by stage on right side, 4ft. up, 1"	Non-detected	2134
C	Window P WC1258	1205-49	Wood frame	North window by stage on right side, 4ft. up, 3"	Non-detected	2143
C	Window P WC1258	1205-50	Stucco on concrete	Exterior, north window by stage on right side, 4ft. up, 1"	Non-detected	2150
C	Window P WC1258	1205-51	Stucco on concrete	Side by side duplicate of sample number 1205-50	Non-detected	2155
C	Window P WC1258	1205-52	Stucco on concrete	Exterior, north window by stage on right side, 4ft. up, 3"	Non-detected	2200

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/05/2017

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
C	Window P WC1258	1205-53	Stucco on concrete	Exterior, north window by stage on right side, 4ft. up, 6"	Non-detected	2220

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/11/2017

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
C	Door B C106A	1211-01	Rough wall plaster	Interior, room 106 south door, on left side of door, 4 ft. up, 1"	Non-detected	1530
C	Door B C106A	1211-02	Rough wall plaster	Interior, room 106 south door, on left side of door, 4 ft. up, 3"	Non-detected	1545
C	Door B C106A	1211-03	Rough wall plaster	Interior, room 106 south door, on left side of door, 4 ft. up, 6"	Non-detected	1602
C	Door B C106A	1211-04	Stucco on concrete	Exterior, room 106 south door, on left side of door, 4 ft. up, 1"	Non-detected	1614
C	Door B C106A	1211-05	Stucco on concrete	Exterior, room 106 south door, on left side of door, 4 ft. up, 3"	Non-detected	1628
C	Door B C106A	1211-06	Stucco on concrete	Exterior, room 106 south door, on left side of door, 4 ft. up, 6"	Non-detected	1641
C	Door C C90A	1211-07	Smooth wall plaster	Interior, boys restroom door on west side, right side of door, 4 ft. up, 1"	Non-detected	1655
C	Door C C90A	1211-08	Smooth wall plaster	Interior, boys restroom door on west side, right side of door, 4 ft. up, 3"	Non-detected	1710
C	Door C C90A	1211-09	Smooth wall plaster	Interior, boys restroom door on west side, right side of door, 4 ft. up, 6"	Non-detected	1726
C	Door C C90A	1211-10	Stucco on concrete	Exterior, boys restroom door on west side, right side of door, 4 ft. up, 1"	Non-detected	1740
C	Door C C90A	1211-11	Stucco on concrete	Exterior, boys restroom door on west side, right side of door, 4 ft. up, 3"	Non-detected	1757
C	Door C C90A	1211-12	Stucco on concrete	Exterior, boys restroom door on west side, right side of door, 4 ft. up, 6"	Non-detected	1813
C	Door A C91A	1211-13	Rough wall plaster	Interior, book room, north west door on right side of door, 4ft. Up, 1"	Non-detected	1824
C	Door A C91A	1211-14	Rough wall plaster	Interior, book room, north west door on right side of door, 4ft. Up, 3"	Non-detected	1839

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/11/2017

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
C	Door A C91A	1211-15	Rough wall plaster	Interior, book room, north west door on right side of door, 4ft. Up, 6"	Non-detected	1852
C	Door A C91A	1211-16	Stucco on concrete	Exterior, book room, north west door on right side of door, 4ft. Up, 1"	Non-detected	1910
C	Door A C91A	1211-17	Stucco on concrete	Exterior, book room, north west door on right side of door, 4ft. Up, 3"	Non-detected	1927
C	Door A C91A	1211-18	Stucco on concrete	Exterior, book room, north west door on right side of door, 4ft. Up, 6"	Non-detected	1938
C	Door E C100A	1211-19	Rough wall plaster	Interior, room 100 northwest door on left side of door, 3ft. Up, 1"	Non-detected	1951
C	Door E C100A	1211-20	Rough wall plaster	Side by side duplicate of 1211-19	Non-detected	1959
C	Door E C100A	1211-21	Rough wall plaster	Interior, room 100 northwest door on left side of door, 3ft. Up, 3"	Non-detected	2008
C	Door E C100A	1211-22	Rough wall plaster	Interior, room 100 northwest door on left side of door, 3ft. Up, 6"	Non-detected	2020
C	Door E C100A	1211-23	Stucco on concrete	Exterior, room 100 northwest door on left side of door, 3ft. Up, 1"	Non-detected	2034
C	Door E C100A	1211-24	Stucco on concrete	Exterior, room 100 northwest door on left side of door, 3ft. Up, 3"	Non-detected	2050
C	Door E C100A	1211-25	Stucco on concrete	Exterior, room 100 northwest door on left side of door, 3ft. Up, 6"	Non-detected	2105
C	Door B C101AB	1211-26	Stucco on concrete	Exterior, double door at hallways to room 100, left side, 1"	Non-detected	2115
C	Door B C101AB	1211-27	Stucco on concrete	Exterior, double door at hallways to room 100, left side, 3"	Non-detected	2128
C	Door B C101AB	1211-28	Stucco on concrete	Exterior, double door at hallways to room 100, left side, 6"	Non-detected	2140
C	Door B C101AB	1211-29	Rough wall plaster	Interior, double door at hallways to room 100, left side, 1"	Non-detected	2153

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/11/2017

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
C	Door B C101AB	1211-30	Rough wall plaster	Side by side duplicate of 1211-29	Non-detected	2200
C	Door B C101AB	1211-31	Rough wall plaster	Interior, double door at hallways to room 100, left side, 3"	Non-detected	2210
C	Door B C101AB	1211-32	Rough wall plaster	Interior, double door at hallways to room 100, left side, 6"	Non-detected	2230

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/12/2017

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
C	Window Y WC138	1212-01	Stucco on concrete	Exterior, room 104, left of window, 5ft. Up, 1"	Non-detected	1530
C	Window Y WC138	1212-02	Stucco on concrete	Exterior, room 104, left of window, 5ft. Up, 3"	Non-detected	1545
C	Window Y WC138	1212-03	Stucco on concrete	Exterior, room 104, left of window, 5ft. Up, 6"	Non-detected	1600
C	Window Y WC138	1212-04	Dash coat on concrete	Interior, room 104, left of window, 5ft. Up, 1"	Non-detected	1615
C	Window Y WC138	1212-05	Dash coat on concrete	Interior, room 104, left of window, 5ft. Up, 3"	Non-detected	1630
C	Window Y WC138	1212-06	Dash coat on concrete	Interior, room 104, left of window, 5ft. Up, 6"	Non-detected	1645
C	Window K WC135	1212-07	Wood frame	Interior, room 103 interior, east side of window, 4ft. Up, 1"	Non-detected	1700
C	Window K WC135	1212-08	Wood frame	Interior, room 103 interior, east side of window, 4ft. Up, 3"	Non-detected	1715
C	Window K WC135	1212-09	Stucco on concrete	Exterior, room 103 interior, east side of window, 4ft. Up, 1"	Non-detected	1730
C	Window K WC135	1212-10	Stucco on concrete	Exterior, room 103 interior, east side of window, 4ft. Up, 3"	Non-detected	1745
C	Window K WC135	1212-11	Stucco on concrete	Exterior, room 103 interior, east side of window, 4ft. Up, 6"	Non-detected	1800
C	Window H WC131	1212-12	Stucco on concrete	Exterior, room 102, left side of window, 5 ft. up, 1"	Non-detected	1810
C	Window H WC131	1212-13	Stucco on concrete	Exterior, room 102, left side of window, 5 ft. up, 3"	Non-detected	1820
C	Window H WC131	1212-14	Stucco on concrete	Exterior, room 102, left side of window, 5 ft. up, 6"	Non-detected	1830
C	Window H WC131	1212-15	Wood frame	Interior, room 102, left side of window, 5 ft. up, 1"	Non-detected	1840
C	Window H WC131	1212-16	Wood frame	Interior, room 102, left side of window, 5 ft. up, 3"	Non-detected	1850
C	Window L WC129	1212-17	Stucco on concrete	Exterior, room 100, left side of window, 5 ft. up, 1"	Non-detected	1900

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/12/2017

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
C	Window L WC129	1212-18	Stucco on concrete	Exterior, room 100, left side of window, 5 ft. up, 3"	Non-detected	1910
C	Window L WC129	1212-19	Stucco on concrete	Exterior, room 100, left side of window, 5 ft. up, 6"	Non-detected	1920
C	Window L WC129	1212-20	Wood frame	Interior, room 100, left side of window, 5 ft. up, 1"	Non-detected	1930
C	Window L WC129	1212-21	Wood frame	Side by side duplicate of 1212-20	Non-detected	1940
C	Window L WC129	1212-22	Wood frame	Interior, room 100, left side of window, 5 ft. up, 3"	Non-detected	1950
C	Window G WC124	1212-23	Wood frame	Interior, room 100, northeast end, left side of window, 5 ft. up, 1"	Non-detected	2000
C	Window G WC124	1212-24	Wood frame	Interior, room 100, northeast end, left side of window, 5 ft. up, 3"	Non-detected	2010
C	Window G WC124	1212-25	Stucco on concrete	Exterior, room 100, northeast end, left side of window, 5 ft. up, 1"	Non-detected	2020
C	Window G WC124	1212-26	Stucco on concrete	Exterior, room 100, northeast end, left side of window, 5 ft. up, 3"	Non-detected	2030
C	Window G WC124	1212-27	Stucco on concrete	Exterior, room 100, northeast end, left side of window, 5 ft. up, 6"	Non-detected	2040
C	Window N WC113	1212-28	Stucco on concrete	Exterior faculty restroom, left side of window, 4 ft. up, 1"	Non-detected	2050
C	Window N WC113	1212-29	Stucco on concrete	Exterior faculty restroom, left side of window, 4 ft. up, 3"	Non-detected	2100
C	Window N WC113	1212-30	Stucco on concrete	Exterior faculty restroom, left side of window, 4 ft. up, 6"	Non-detected	2110
C	Window N WC113	1212-31	Wood frame	Interior faculty restroom, left side of window, 4 ft. up, 1"	Non-detected	2120
C	Window N WC113	1212-32	Wood frame	Interior faculty restroom, left side of window, 4 ft. up, 3"	Non-detected	2130

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/12/2017

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
C	Window H WC109	1212-33	Stucco on concrete	Exterior, book room, north wall on right side of window, 4 ft. up, 1"	Non-detected	2140
C	Window H WC109	1212-34	Stucco on concrete	Exterior, book room, north wall on right side of window, 4 ft. up, 3"	Non-detected	2150
C	Window H WC109	1212-35	Stucco on concrete	Exterior, book room, north wall on right side of window, 4 ft. up, 6"	Non-detected	2200
C	Window H WC109	1212-36	Wood frame	Interior, book room, north wall on right side of window, 4 ft. up, 1"	Non-detected	2210
C	Window H WC109	1212-37	Wood frame	Interior, book room, north wall on right side of window, 4 ft. up, 3"	Non-detected	2220
C	Window P WC106	1212-38	Stucco on concrete	Exterior, library east wall, right side of window, 4 ft. up, 1"	Non-detected	2230
C	Window P WC106	1212-39	Stucco on concrete	Exterior, library east wall, right side of window, 4 ft. up, 3"	Non-detected	2240
C	Window P WC106	1212-40	Stucco on concrete	Exterior, library east wall, right side of window, 4 ft. up, 6"	Non-detected	2250
C	Window P WC106	1212-41	Wood frame	Interior, library east wall, right side of window, 4 ft. up, 1"	Non-detected	2300
C	Window P WC106	1212-42	Wood frame	Side by side duplicate of 1212-41	Non-detected	2310
C	Window P WC106	1212-43	Wood frame	Interior, library east wall, right side of window, 4 ft. up, 3"	Non-detected	2320
C	Window K WC101	1212-44	Stucco on concrete	Exterior, faculty restroom, east window, right side of window, 7 ft. up, 1"	2.25 (Aroclor 1254)	2330
C	Window K WC101	1212-45	Stucco on concrete	Exterior, faculty restroom, east window, right side of window, 7 ft. up, 3"	Non-detected	2340
C	Window K WC101	1212-46	Stucco on concrete	Exterior, faculty restroom, east window, right side of window, 7 ft. up, 6"	Non-detected	2350

DELINEATION BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/12/2017

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
C	Door A	1212-47	Rough wall plaster	Interior, 2nd floor, room 204, southeast door, 4 ft. up, 1"	Non-detected	1200 am
C	Door A	1212-48	Rough wall plaster	Interior, 2nd floor, room 204, southeast door, 4 ft. up, 3"	Non-detected	1215 am
C	Door A	1212-49	Rough wall plaster	Interior, 2nd floor, room 204, southeast door, 4 ft. up, 6"	Non-detected	1230 am

Note: Door Type D located in heater closets has not caulking. No sampling is required.

SOURCE BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/27/17

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
C	Door D-2	1227-01	Caulking	Door D-2 C96E	Non-detected	1525
C	Door D-2	1227-02	Caulking	Door D-2 C96F	Non-detected	1540
				(Note: only two D-2 doors in building C)		
C	Door D	Type D doors are associated with wood heater closets. The doors are latched to the closets. No caulking was observed.				
C	Door A	1227-03	Caulking	Door A C96A	Non-detected	1600
C	Door A	1227-04	Caulking	Door A C96EC	Non-detected	1615
C	Door A	1227-05	Caulking	Door A C96EB	Non-detected	1630
C	Window Q	1227-06	Caulking	Window Q WC153	Non-detected	1645
C	Window Q	1227-07	Caulking	Window Q WC156	Non-detected	1700
				(Note: only two Q windows in building C)		
C	Window Z	1227-08	Caulking	Window Z WC155	Non-detected	1715
C	Window Z	1227-16	Caulking	Window Z WC154	Non-detected	1915
				(Note: only two Z windows in building C)		
C	Window P	1227-09	Caulking	Window P WC159	Non-detected	1730
C	Window P	1227-10	Caulking	Window P WC160	Non-detected	1745
C	Window P	1227-11	Caulking	Window P WC161	Non-detected	1800
C	Window P	1227-15	Caulking	Window P WC 158	Non-detected	1900
C	Door B	1227-12	Caulking	Door B C96ZB	Non-detected	1815
C	Door B	1227-13	Caulking	Door B C89A	Non-detected	1830
C	Door B	1227-14	Caulking	Door B C95A	Non-detected	1845
C	Door C	1227-17	Caulking	Door C C92A	Non-detected	1930
C	Door C	1227-18	Caulking	Door C C93A	Non-detected	1945
C	Door C	1227-19	Caulking	Door C C90A	Non-detected	2010
C	Door E	1227-20	Caulking	Door E C100A	Non-detected	2015
C	Door E	1227-21	Caulking	Side by side duplicate of 1227-20	Non-detected	2030
				(Note: only one E type door in C)		
C	Window G	1227-22	Caulking	Window G WC123	Non-detected	2045
C	Window G	1227-23	Caulking	Window G WC124	Non-detected	2100
				(Note: only two G type window in C)		

SOURCE BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/27/17

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
C	Window N	1227-24	Caulking	Window N WC113	Non-detected	2115
C	Window N	1227-25	Caulking	Window N WC112	Non-detected	2130
C	Window N	1227-26	Caulking	Window N WC110	Non-detected	2145
C	Window H	1227-27	Caulking	Window H WC109	Non-detected	2200
C	Window H	1227-28	Caulking	Window H WC107	Non-detected	2215
C	Window H	1227-29	Caulking	Window H WC116	Non-detected	2230
C	Window L	1227-30	Caulking	Window L WC127	Non-detected	2245
C	Window L	1227-34	Caulking	Window L WC129	Non-detected	2340
C	Window L	1227-35	Caulking	Window L WC128	Non-detected	2355
C	Window K	1227-31	Caulking	Window k WC135	Non-detected	2300
C	Window K	1227-32	Caulking	Window K WC141	Non-detected	2315
C	Window K	1227-33	Caulking	Window K WC144	Non-detected	2330
C	Window K	012618JR-01	Caulking	Window WC101	2,110 (Aroclor 1254)	N/A
A	Door B	1228-01	Caulking	Door B A98B	Non-detected	1515
				(Note: only one B type door in A)		
A	Door A	1228-02	Caulking	Door A A97A	Non-detected	1525
				(Note: only one sample collected of A type door in A)		
B	Door A	1228-03	Caulking	Door A B108A	Non-detected	1535
B	Door A	1228-04	Caulking	Door A B107A	Non-detected	1545
B	Door A	1228-05	Caulking	Door A B107AC	Non-detected	1600
B	Door B	1228-06	Caulking	Door A B108AB	Non-detected	1615
B	Door B	1228-07	Caulking	Door B B107AA	Non-detected	1625
B	Door B	1228-08	Caulking	Door B B110A	Non-detected	1635
B	Window A	1228-09	Caulking	Window A WB112	Non-detected	1645
B	Window A	1228-10	Caulking	Window A WB124	Non-detected	1700
				Note: only two A type windows in B		
B	Window B	1228-11	Caulking	Window B WB125	Non-detected	1715
B	Window B	1228-12	Caulking	Window B WB130	Non-detected	1725

SOURCE BULK SAMPLE LIST

CLIENT: Santa Monica-Malibu Unified School District

PROJECT NO: SMSD-17-7280

PROJECT: McKinley Elementary

DATE: 12/27/17

Building Name	Component	Sample Number	Substrate	Sample Location	Total PCBs (mg/kg)	Time
B	Window B	1228-13	Caulking	Window B WB120	Non-detected	1735
B	Window D	1228-14	Caulking	Window D WB102	Non-detected	1745
B	Window D	1228-15	Caulking	Window D WB105	Non-detected	1755
B	Window D	1228-16	Caulking	Window D WB106	Non-detected	1800
B	Window E	1228-17	Caulking	Window E WB110	Non-detected	1815
B	Window E	1228-18	Caulking	Window E WB111	Non-detected	1825
B	Window E	1228-19	Caulking	Window E WB135	Non-detected	1835
B	Window E	1228-20	Caulking	Side by side duplicate of 1228-19	Non-detected	1845
B	Window F	1228-21	Caulking	Window F WB134	Non-detected	1900
B	Window F	1228-22	Caulking	Window F WB129	Non-detected	1915
B	Window F	1228-23	Caulking	Window F WB122	Non-detected	1930
D	Door C	1228-24	Caulking	Door C D72B	Non-detected	1945
D	Door C	1228-25	Caulking	Door C D71EA	Non-detected	2000
D	Door C	1228-26	Caulking	Door C D720AA	Non-detected	2015
D	Door A	1228-27	Caulking	Door A D71A	Non-detected	2030
D	Door A	1228-28	Caulking	Door A D70A	Non-detected	2045
D	Door A	1228-29	Caulking	Door A D70A	Non-detected	2100
D	Window T	1228-30	Caulking	Window T WD101	Non-detected	2200
D	Window T	1228-31	Caulking	Window T WD102	Non-detected	2215
D	Window T	1228-32	Caulking	Window T W0101	Non-detected	2230
D	Window W2	1228-33	Caulking	Window W2 WD110	Non-detected	2245
D	Window W2	1228-34	Caulking	Window W2 WD108	Non-detected	2300
D	Window W2	1228-38	Caulking	Window W2 WD106	Non-detected	2345
D	Window W2	1228-39	Caulking	Window W2 WD105	Non-detected	2355
D	Window W1	1228-35	Caulking	Window W1 WD104	Non-detected	2315
D	Window W1	1228-36	Caulking	Window W1 WD104	Non-detected	2330
D	Window W1	1228-37	Caulking	Window W1 WD104	Non-detected	2335

Appendix B

Laboratory Reports

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

Date: December 12, 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: **McKinley Elementary**
Lab I.D.: **171205-64 through -96**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on December 5, 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: **McKinley Elementary**

DATE SAMPLED: 12/04/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 12/05/17
DATE EXTRACTED: 12/07-08/17
DATE ANALYZED: 12/10/17
DATE REPORTED: 12/12/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 1 OF 2
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
1204-01	171205-64	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-02	171205-65	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-03	171205-66	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-04	171205-67	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-05	171205-68	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-06	171205-69	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-07	171205-70	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-08	171205-71	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-09	171205-72	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-10	171205-73	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-11	171205-74	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-12	171205-75	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-13	171205-76	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-14	171205-77	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-15	171205-78	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-16	171205-79	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-17	171205-80	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-18	171205-81	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-19	171205-82	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-20	171205-83	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: **McKinley Elementary**

DATE SAMPLED:12/04/17
MATRIX:SOLID
REPORT TO:MR. CESAR RUVALCABA

DATE RECEIVED:12/05/17
DATE EXTRACTED:12/07-08/17
DATE ANALYZED:12/10/17
DATE REPORTED:12/12/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 2 OF 2
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
1204-21	171205-84	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-22	171205-85	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-23	171205-86	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-24	171205-87	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-25	171205-88	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-26	171205-89	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-27	171205-90	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-28	171205-91	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-29	171205-92	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-30	171205-93	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-31	171205-94	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-32	171205-95	ND	ND	ND	ND	ND	ND	ND	ND	1
1204-33	171205-96	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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 12/10/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171210-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.077	**77%**	0.089	**89%**	**15%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.088	**88%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171205-65	171205-66	171205-67	171205-68	171205-69	171205-70
Tetra-chloro-meta-xylene	50-150	124%	117%	124%	92%	107%	87%	67%
Decachlorobipneyl	50-150	88%	101%	87%	88%	87%	96%	52%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171205-71	171205-72	171205-73	171205-74	171205-75	171205-76	171205-77	171205-78
Tetra-chloro-meta-xylene	113%	111%	125%	124%	129%	138%	111%	126%
Decachlorobipneyl	96%	84%	86%	88%	99%	101%	97%	94%

~~Surrogate Recovery~~	~~%REC~~	~~%REC~~	~~%REC~~	~~%REC~~	~~%REC~~	~~%REC~~
Sample I.D.	171205-79	171205-80	171205-81	171205-82	171205-83	171205-64
Tetra-chloro-meta-xylene	126%	127%	118%	140%	110%	133%
Decachlorobipneyl	86%	90%	83%	95%	116%	111%

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: 12/10/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171210-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.092	**92%**	0.086	**86%**	**7%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.084	**84%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171205-84	171205-85	171205-86	171205-87	171205-88	171205-89
Tetra-chloro-meta-xylene	50-150	134%	134%	78%	143%	138%	122%	112%
Decachlorobipneyl	50-150	87%	106%	71%	104%	97%	82%	100%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171205-90	171205-91	171205-92	171205-93	171205-94	171205-95	171205-96	
Tetra-chloro-meta-xylene	136%	81%	129%	120%	125%	136%	125%	
Decachlorobipneyl	97%	95%	81%	92%	87%	93%	97%	

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. 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
✓ 1 Week (Standard)
Other

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Epa 8082	Misc./PO#	COMMENTS
				Analysis Required						
1204-01	17205-64	12/4/17	1520	Bulk	1x40		ICE	X		
1204-02	- 65		1535					X		
1204-03	- 66		1550					X		
1204-04	- 67		1608					X		
1204-05	- 68		1625					X		
1204-06	- 69		1640					X		
1204-07	- 70		1657					X		
1204-08	- 71		1715					X		
1204-09	- 72		1732					X		
1204-10	- 73		1744					X		
1204-11	- 74		1801					X		
1204-12	- 75		1823					X		
1204-13	- 76		1830					X		
1204-14	- 77		1850					X		
1204-15	- 78		1905					X		

Company Name: ALTA Environmental
Address: 3777 Long Beach Blvd Annex Bldg
City/State/Zip: Long Beach ~~Blvd~~ CA 90807
Project Contact: Oscar.Rivalcaba@altaenv.com
Tel:
Fax:
Sampler's Signature:
Project Name/ID: McKinley Elementary

Relinquished by: [signature] 12/5/17
Relinquished by:
Relinquished by:

Received by: [signature] 12/5/17 1230
Received by:
Received by:

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

CHAIN OF CUSTODY RECORD

Date: 12/4/17

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	EPA 8082	Analysis Required	COMMENTS
1204-16	171205-79	12/4/17	1919	Bulk	1x4oz		ICE	X		
1204-17	-80		1935					X		
1204-18	-81		1952					X		
1204-19	-82		2011					X		
1204-20	-83		2033					X		
1204-21	-84		2051					X		
1204-22	-85		2110					X		
1204-23	-86		2128					X		
1204-24	-87		2138					X		
1204-25	-88		2155					X		
1204-26	-89		2220					X		
1204-27	-90		2235					X		
1204-28	-91		2244					X		
1204-29	-92		2256					X		
1204-30	-93		2308					X		

Misc./PO#

Company Name: ALTA Environmental
Address: 3777 Long Beach Blvd Annex Bldg
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar.Rivalcaba@altaenviron.com
Tel:
Fax:

Sampler's Signature:
Project Name/ID:

Relinquished by: [signature] 12/5/17
Relinquished by:
Relinquished by:

Received by: Jessica
Received by:
Received by:

Date & Time: 12/5/17 1230
Date & Time:
Date & Time:

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

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE • YELLOW TO CLIENT

Date: 12/4/17

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
O Same Day
O 24 Hours
O 48 Hours
O 72 Hours
O 1 Week (Standard)
Other

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: EPA 8270	COMMENTS
1204-31	17/205-94	12/4/17	2320	Bulk	1x4oz		ICE	X	
1204-32	-95		2333					X	
1204-33	-96		2345					X	

Misc./PO#

Company Name: ALTA Environmental
Address: 3777 Long Beach Blvd Annex Bldg
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar.Rivalcaba@altaenviron.com
Tel:
Fax:

Sampler's Signature:
Project Name/ID:

Relinquished by: 12/5/17
Relinquished by:
Relinquished by:

Received by: Jessica
Received by:
Received by:

Date & Time: 12/5/17 1230
Date & Time:
Date & Time:

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

CHAIN OF CUSTODY RECORD

Date: 12/4/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

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

Date: December 14, 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: **SMSD-17-7280**
Lab I.D.: **171207-77 through -126**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on December 7, 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: **SMSD-17-7280**

DATE SAMPLED:12/05/17
MATRIX:SOLID
REPORT TO:MR. CESAR RUVALCABA

DATE RECEIVED:12/07/17
DATE EXTRACTED:12/11-12/17
DATE ANALYZED:12/12&13/17
DATE REPORTED:12/14/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 1 OF 4
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
1205-01	171207-77	ND	ND	ND	ND	ND	1.83	ND	1.83	1
1205-02	171207-78	ND	ND	ND	ND	ND	2.79	ND	2.79	1
1205-03	171207-79	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-04	171207-80	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-05	171207-81	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-06	171207-82	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: **SMSD-17-7280**

DATE SAMPLED:12/05/17
MATRIX:SOLID
REPORT TO:MR. CESAR RUVALCABA

DATE RECEIVED:12/07/17
DATE EXTRACTED:12/11-12/17
DATE ANALYZED:12/13/17
DATE REPORTED:12/14/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 2 OF 4
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
1205-07	171207-83	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-08	171207-84	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-19	171207-85	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-10	171207-86	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-11	171207-87	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-12	171207-88	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-13	171207-89	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-14	171207-90	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-15	171207-91	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-16	171207-92	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-17	171207-93	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-18	171207-94	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-19	171207-95	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-21	171207-96	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-22	171207-97	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-23	171207-98	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-24	171207-99	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-25	171207-100	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-26	171207-101	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-27	171207-102	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: **SMSD-17-7280**

DATE SAMPLED:12/05/17
MATRIX:SOLID
REPORT TO:MR. CESAR RUVALCABA

DATE RECEIVED:12/07/17
DATE EXTRACTED:12/11-12/17
DATE ANALYZED:12/13/17
DATE REPORTED:12/14/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 3 OF 4
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
1205-28	171207-103	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-29	171207-104	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-30	171207-105	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-31	171207-106	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-32	171207-107	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-33	171207-108	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-34	171207-109	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-35	171207-110	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-36	171207-111	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-37	171207-112	ND	ND	ND	ND	ND	ND	ND	ND	2^
1205-38	171207-113	ND	ND	ND	ND	ND	ND	ND	ND	2^
1205-39	171207-114	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-41	171207-115	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-42	171207-116	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-43	171207-117	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-44	171207-118	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-45	171207-119	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-46	171207-120	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-47	171207-121	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-48	171207-122	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: **SMSD-17-7280**

DATE RECEIVED:12/07/17
DATE SAMPLED:12/05/17 DATE EXTRACTED:12/11-12/17
MATRIX:SOLID DATE ANALYZED:12/13/17
REPORT TO:MR. CESAR RUVALCABA DATE REPORTED:12/14/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 4 OF 4
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
1205-49	171207-123	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-50	171207-124	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-52	171207-125	ND	ND	ND	ND	ND	ND	ND	ND	1
1205-53	171207-126	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

EPA 8082 QA/QC Report

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

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171212-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%**	0.074	**74%**	**15%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.081	**81%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171207-27	171207-30	171207-33	171207-36	171207-39	171207-42
Tetra-chloro-meta-xylene	50-150	132%	114%	133%	125%	137%	125%	125%
Decachlorobipneyl	50-150	99%	86%	86%	78%	105%	87%	106%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171207-45	171207-48	171207-51	171207-54	171207-57	171207-60	171207-63	171207-66
Tetra-chloro-meta-xylene	135%	127%	144%	129%	122%	136%	148%	138%
Decachlorobipneyl	86%	93%	90%	99%	95%	97%	87%	90%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171207-77	171207-78	171207-79	171207-80	171207-81	171207-82
Tetra-chloro-meta-xylene	125%	122%	126%	126%	124%	137%
Decachlorobipneyl	97%	98%	79%	95%	93%	81%

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: 12/13/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171212-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%**	0.083	**83%**	**6%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.103	**103%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171207-83	171207-84	171207-85	171207-86	171207-87	171207-88
Tetra-chloro-meta-xylene	50-150	147%	129%	85%	149%	108%	112%	123%
Decachlorobipneyl	50-150	96%	149%	97%	113%	104%	115%	96%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171207-89	171207-90	171207-91	171207-92	171207-93	171207-94	171207-95	171207-96
Tetra-chloro-meta-xylene	117%	119%	110%	122%	123%	128%	125%	137%
Decachlorobipneyl	88%	103%	109%	92%	102%	98%	85%	84%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171207-97	171207-98	171207-99	171207-100	171207-101	171207-102
Tetra-chloro-meta-xylene	125%	137%	131%	120%	118%	143%
Decachlorobipneyl	86%	99%	93%	96%	78%	142%

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: 12/13/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171212-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.090	**90%**	0.083	**83%**	**8%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.079	**79%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171207-103	171207-104	171207-105	171207-106	171207-107	171207-108
Tetra-chloro-meta-xylene	50-150	125%	129%	129%	127%	130%	118%	124%
Decachlorobipneyl	50-150	81%	94%	95%	83%	94%	92%	86%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171207-109	171207-110	171207-111	171207-112	171207-113	171207-114	171207-115	171207-116
Tetra-chloro-meta-xylene	148%	139%	116%	145%	136%	60%	143%	125%
Decachlorobipneyl	108%	135%	66%	75%	91%	65%	126%	112%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171207-117	171207-118	171207-119	171207-120	171207-121	171207-122
Tetra-chloro-meta-xylene	112%	121%	111%	113%	136%	104%
Decachlorobipneyl	92%	124%	100%	82%	111%	67%

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: 12/13/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171212-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.084	**84%**	0.087	**87%**	**4%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.093	**93%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171207-123	171207-124	171207-125	171207-126		
Tetra-chloro-meta-xylene	50-150	139%	129%	143%	128%	147%		
Decachlorobipneyl	50-150	104%	94%	126%	82%	107%		

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

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. 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
(1) Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA 8082	Misc./PO#	COMMENTS
				Analysis Required						
1205-01	171207-77	12/5/17	1533	Bulk			ICE	X		
1205-02	-78		1540					X		
1205-03	-79		1548					X		
1205-04	-80		1555					X		
1205-05	-81		1605					X		
1205-06	-82		1620					X		
1205-07	-83		1625					X		
1205-08	-84		1633					X		
1205-09	-85		1640					X		
1205-10	-86		1648					X		
1205-11	-87		1700					X		
1205-12	-88		1705					X		
1205-13	-89		1715					X		
1205-14	-90		1730					X		
1205-15	-91		1738					X		

Company Name: ALTA Environmental

Project Contact: Cesar.Rivalcoba@altaenvion.com

Sampler's Signature:

Address: 3777 Long Beach Blvd, Annex Bldg

Tel:

Project Name/ID: SMSO-17-7280

City/State/Zip: Long Beach CA 90807

Fax:

Relinquished by:	Received by:	Date & Time: 12/7/2017 405 PM	Instructions for Sample Storage After Analysis:
Relinquished by: 1003	Received by:	Date & Time:	☐ Dispose of ○ Return to Client ○ Store (30 Days)
Relinquished by:	Received by:	Date & Time:	○ Other:

CHAIN OF CUSTODY RECORD

Date: 12/7/17

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) Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA 8282	Misc./PO#	COMMENTS
				Analysis Required						
1205-16	171207-92	12/5/17	1745	Bulk			ICE	X		
1205-17	- 93		1755					X		
1205-18	- 94		1802					X		
1205-19	- 95		1810					X		
1205-21	- 96		1816					X		
1205-22	- 97		1822					X		
1205-23	- 98		1830					X		
1205-24	- 99		1836					X		
1205-25	- 100		1843					X		
1205-26	- 101		1850					X		
1205-27	- 102		1900					X		
1205-28	- 103		1912					X		
1205-29	- 104		1926					X		
1205-30	- 105		1934					X		
1205-31	- 106		1940					X		

Company Name: ALTA Environmental
Address: 3777 Long Beach Blvd, Annex Bldg
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar.Rivalcaba@altaenviron.com
Tel:
Fax:

Sampler's Signature:

Project Name/ID: SMSD-17-7280

Relinquished by: 1603
Relinquished by:
Relinquished by:

Received by:
Received by:
Received by:

Date & Time: 12/7/2017 405 PM
Date & Time:
Date & Time:

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

CHAIN OF CUSTODY RECORD

Date: 12/7/17

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
O 1 Week (Standard)
Other

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA 8082	Misc./PO#	COMMENTS
1205-32	171207-107	12/5/17	1955	Bulk			ICE	X		
1205-33	- 108		2005					X		
1205-34	- 109		2012					X		
1205-35	- 110		2019					X		
1205-36	- 111		2024					X		
1205-37	- 112		2030					X		
1205-38	- 113		2042					X		
1205-39	- 114		2046					X		
1205-41	- 115		2050					X		
1205-42	- 116		2055					X		
1205-43	- 117		2059					X		
1205-44	- 118		2110					X		
1205-45	- 119		2115					X		
1205-46	- 120		2122					X		
1205-47	- 121		2129					X		

Company Name: ALTA Environmental
Address: 3777 Long Beach Blvd Amtex Bldg
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar.Rival@altaenvironmental.com
Tel:
Fax:

Sampler's Signature:
Project Name/ID: SMCO-17-7280

Relinquished by:	1603	Received by:	12/7/2017 4:05 PM
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 O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 12/7/17

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
@ 1 Week (Standard)
Other

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA 8032	Misc./PO#	COMMENTS
				Analysis Required						
1205-48	171207-122	12/5/17	2134	Bulk			ICE	X		
1205-49	123		2143					X		
1205-50	124		2156					X		
1205-52	125		2200					X		
1205-53	126		2220					X		

Company Name: ALTA Environmental
Address: 3777 Long Beach Blvd, Annex Bldg
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar.Raval@altaenvironmental.com
Tel:
Fax:

Sampler's Signature:
Project Name/ID: SMSD-17-7280

Relinquished by: 1603
Relinquished by:
Relinquished by:

Received by:
Received by:
Received by:

Date & Time: 12/7/2017 405 pm
Date & Time:
Date & Time:

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

CHAIN OF CUSTODY RECORD

Date: 12/7/17

WHITE WITH SAMPLE - YELLOW TO CLIENT

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

Date: December 14, 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: **McKinley E.S. Bldg. A & Bldg. D**
Lab I.D.: **171207-27 through -68**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on December 7, 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: **McKinley E.S. Bldg. A & Bldg. D**

DATE SAMPLED: 12/06/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 12/07/17
DATE EXTRACTED: 12/11-12/17
DATE ANALYZED: 12/12/17
DATE REPORTED: 12/14/17

PCBs ANALYSIS
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
A-1	171207-27	ND	ND	ND	ND	ND	ND	ND	ND	1
A-4	171207-30	ND	ND	ND	ND	ND	ND	ND	ND	1
A-7	171207-33	ND	ND	ND	ND	ND	ND	ND	ND	1
A-10	171207-36	ND	ND	ND	ND	ND	ND	ND	ND	1
A-13	171207-39	ND	ND	ND	ND	ND	ND	ND	ND	1
A-16	171207-42	ND	ND	ND	ND	ND	ND	ND	ND	1
A-19	171207-45	ND	ND	ND	ND	ND	ND	ND	ND	1
A-22	171207-48	ND	ND	ND	ND	ND	ND	ND	ND	1
A-25	171207-51	ND	ND	ND	ND	ND	ND	ND	ND	1
A-28	171207-54	ND	ND	ND	ND	ND	ND	ND	ND	1
A-31	171207-57	ND	ND	ND	ND	ND	ND	ND	ND	1
A-34	171207-60	ND	ND	ND	ND	ND	ND	ND	ND	1
A-37	171207-63	ND	ND	ND	ND	ND	ND	ND	ND	1
A-40	171207-66	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

EPA 8082 QA/QC Report

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

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171212-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%**	0.074	**74%**	**15%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.081	**81%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171207-27	171207-30	171207-33	171207-36	171207-39	171207-42
Tetra-chloro-meta-xylene	50-150	132%	114%	133%	125%	137%	125%	125%
Decachlorobipneyl	50-150	99%	86%	86%	78%	105%	87%	106%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171207-45	171207-48	171207-51	171207-54	171207-57	171207-60	171207-63	171207-66
Tetra-chloro-meta-xylene	135%	127%	144%	129%	122%	136%	148%	138%
Decachlorobipneyl	86%	93%	90%	99%	95%	97%	87%	90%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171207-77	171207-78	171207-79	171207-80	171207-81	171207-82
Tetra-chloro-meta-xylene	125%	122%	126%	126%	124%	137%
Decachlorobipneyl	97%	98%	79%	95%	93%	81%

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. 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

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: EPA 8082 PCBs	Misc: Mckinley E.S. Bldg A Bldg D	COMMENTS
A-1	171207-27	12/6/17	1601	Bulk	1 4oz		ICE	X		1"
2	-28		1607		1			X		archive 3"
3	-29		1615		1			X		↓ 6"
4	-30		1630		1			X		1"
5	-31		1632		1			X		archive 3"
6	-32		1635		1			X		↓ 6"
7	-33		1700		1			X		1"
8	-34		1710		1			X		archive 3"
9	-35		1711		1			X		↓ 6"
10	-36		1718		1			X		1"
11	-37		1720		1			X		archive 3"
12	-38		1725		1			X		↓ 6"
13	-39		1729		1			X		1"
14	-40		1732		1			X		archive 3"
15	-41	↓	1736	↓	1		↓	X		↓ 6"

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach Ca
Project Contact: Lora Rueda
Tel:
Fax:
Sampler's Signature:
Project Name/ID: Mckinley E.S. Bldg A Bldg D

Relinquished by:	Received by:	Date & Time: 12/7/17 1305
Relinquished by:	Received by:	Date & Time:
Relinquished by:	Received by:	Date & Time:

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

CHAIN OF CUSTODY RECORD

Date: 12-07-17

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
O Same Day
O 24 Hours
O 48 Hours
O 72 Hours
● 1 Week (Standard)
O Other

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
A16	171207-42	12/05/17	1740	Bulk	1	4°C	Ice	X	1"
17	-43		1742		1			X	archive 3"
18	-44		1745		1			X	6"
19	-45		1746		1			X	1"
20	-46		1750		1			X	archive 3"
21	-47		1753		1			X	6"
22	-48		1810		1			X	1"
23	-49		1813		1			X	archive 3"
24	-50		1817		1			X	6"
25	-51		1830		1			X	1"
26	-52		1838		1			X	archive 3"
27	-53		1840		1			X	6"
28	-54		1845		1			X	1"
29	-55		1848		1			X	archive 3"
30	-56		1850		1			X	6"

Misc: Mckinley E.S. Bldg A Bldg D

Company Name: Alta Environmental	Project Contact: Cesar Ruvalcaba	Sampler's Signature:
Address: 3777 Long Beach Blvd	Tel:	Project Name/ID: Mckinley E.S. Bldg A Bldg D
City/State/Zip: Long Beach Ca	Fax:	

Relinquished by:	Received by: Jesse Q	Date & Time: 12/7/17 1305	Instructions for Sample Storage After Analysis: O Dispose of O Return to Client O Store (30 Days) O Other
Relinquished by:	Received by:	Date & Time:	
Relinquished by:	Received by:	Date & Time:	

CHAIN OF CUSTODY RECORD

Date: 12-07-17

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
- ☐ Same Day
- ☐ 24 Hours
- ☐ 48 Hours
- ☐ 72 Hours
- ☒ 1 Week (Standard)
- ☐ Other

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA-8082 PCBs	Misc: Mckinley E.S. Bldg A Bldg D	COMMENTS
					Analysis Required					
A31	171207-57	12/05/17	1852	Bulk	1 4oz		Ice	X		1"
A32	-58		1853		1			X		3" archive
A33	-59		1900		1			X		6"
A34 (QC#2)	-60		1910		1			X		1"
			1911		(MS)					
A35	-61		1915		1			X		3" archive
A36	-62		1920		1			X		6"
A37	-63		1925		1			X		1"
A38	-64		1930		1			X		3" archive
A39	-65		1935		1			X		6"
A40	-66		2000		1			X		1"
A41	-67		2005		1			X		3" archive
A42	-68		2010		1			X		6"

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd
City/State/Zip:
Project Contact: Cesar Rueda
Tel:
Fax:
Sampler's Signature:
Project Name/ID: Mckinley E.S. Bldg A Bldg D

Relinquished by:	Received by: Jessica	12/7/17 1305	Instructions for Sample Storage After Analysis:
Relinquished by:	Received by:	Date & Time:	☐ Dispose of ☐ Return to Client ☐ Store (30 Days)
Relinquished by:	Received by:	Date & Time:	☐ Other

CHAIN OF CUSTODY RECORD

Date: 12-07-17

WHITE WITH SAMPLE YELLOW TO CLIENT

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

Date: December 20, 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: **SMSD-17-7280**
Lab I.D.: **171213-36 through -65**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on December 13, 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: **SMSD-17-7280**

DATE SAMPLED: 12/11/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 12/13/17
DATE EXTRACTED: 12/14-15/17
DATE ANALYZED: 12/15/17
DATE REPORTED: 12/20/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 1 OF 2
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
1211-01	171213-36	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-02	171213-37	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-03	171213-38	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-04	171213-39	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-05	171213-40	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-06	171213-41	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-07	171213-42	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-08	171213-43	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-09	171213-44	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-10	171213-45	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-11	171213-46	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-12	171213-47	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-13	171213-48	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-14	171213-49	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-15	171213-50	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-16	171213-51	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-17	171213-52	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-18	171213-53	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-19	171213-54	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-21	171213-55	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: **SMSD-17-7280**

DATE SAMPLED: 12/11/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 12/13/17
DATE EXTRACTED: 12/14-15/17
DATE ANALYZED: 12/15/17
DATE REPORTED: 12/20/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 2 OF 2
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
1211-22	171213-56	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-23	171213-57	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-24	171213-58	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-25	171213-59	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-26	171213-60	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-27	171213-61	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-28	171213-62	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-29	171213-63	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-31	171213-64	ND	ND	ND	ND	ND	ND	ND	ND	1
1211-32	171213-65	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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 12/15/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171215-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.076	**76%**	0.078	**78%**	**2%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.077	**77%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171213-36	171213-37	171213-38	171213-39	171213-40	171213-41
Tetra-chloro-meta-xylene	50-150	138%	139%	131%	145%	102%	125%	140%
Decachlorobipneyl	50-150	111%	101%	115%	94%	105%	117%	144%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171213-42	171213-43	171213-44	171213-45	171213-46	171213-47	171213-48	171213-49
Tetra-chloro-meta-xylene	118%	120%	134%	124%	102%	118%	89%	129%
Decachlorobipneyl	90%	96%	84%	136%	133%	137%	113%	87%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171213-50	171213-51	171213-52	171213-53	171213-54	171213-55
Tetra-chloro-meta-xylene	125%	138%	87%	78%	139%	138%
Decachlorobipneyl	92%	123%	80%	94%	98%	147%

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: 12/15-16/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171215-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.082	**82%**	0.081	**81%**	**1%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.083	**83%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171213-56	171213-57	171213-58	171213-59	171213-60	171213-61
Tetra-chloro-meta-xylene	50-150	133%	140%	133%	137%	112%	97%	96%
Decachlorobipneyl	50-150	109%	99%	106%	121%	94%	94%	88%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171213-62	171213-63	171213-64	171213-65	171213-66	171213-67	171213-68	171213-69
Tetra-chloro-meta-xylene	136%	110%	116%	103%	133%	136%	122%	68%
Decachlorobipneyl	129%	95%	109%	94%	131%	87%	143%	70%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171213-70	171213-71	171213-72	171213-73	171213-74	171213-75
Tetra-chloro-meta-xylene	147%	139%	140%	101%	121%	132%
Decachlorobipneyl	94%	87%	85%	113%	80%	130%

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. 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
(9) 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA 8252									Misc./PO#
								Analysis Required									COMMENTS
1211-01	171213-36	12/11/17	1530	Bulk	1x40z		ICE	X									
1211-02	-37		1545					X									
1211-03	-38		1602					X									
1211-04	-39		1614					X									
1211-05	-40		1628					X									
1211-06	-41		1641					X									
1211-07	-42		1655					X									
1211-08	-43		1710					X									
1211-09	-44		1726					X									
1211-10	-45		1740					X									
1211-11	-46		1757					X									
1211-12	-47		1813					X									
1211-13	-48		1824					X									
1211-14	-49		1839					X									
1211-15	-50		1552					X									

Company Name: ALTA Environmental
Address: 3777 Long Beach Blvd, Annex Bldg
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar.Rivas@altaenvironmental.com
Tel:
Fax:

Sampler's Signature:
Project Name/ID: SM50-17-7250

Relinquished by:	Received by:	12/13/2017 Date & Time: 242 PM	Instructions for Sample Storage After Analysis:
Relinquished by:	Received by:	Date & Time:	O Dispose of O Return to Client O Store (30 Days)
Relinquished by:	Received by:	Date & Time:	O Other

CHAIN OF CUSTODY RECORD

Date:

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: EPA 8082	Misc./PO#	COMMENTS
1211-16	171213-51	12/11/17	1910	Bulk	1402		ICE	X		
1211-17	-52		1927					X		
1211-18	-53		1938					X		
1211-19	-54		1951					X		
1211-21	-55		2008					X		
1211-22	-56		2020					X		
1211-23	-57		2034					X		
1211-24	-58		2050					X		
1211-25	-59		2105					X		
1211-26	-60		2115					X		
1211-27	-61		2128					X		
1211-28	-62		2140					X		
1211-29	-63		2153					X		
1211-31	-64		2210					X		
1211-32	-65		2230					X		

Company Name: ALTA Environmental
Address: 3777 Long Beach Blvd, Annex Bldg
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar.Rivalcaba@altaenv.com
Tel:
Fax:

Sampler's Signature:

Project Name/ID: SMSD-17-7280

Relinquished by:	Received by:	Date & Time: 12/13/2017 2:42 PM	Instructions for Sample Storage After Analysis:
Relinquished by:	Received by:	Date & Time:	O Dispose of O Return to Client O Store (30 Days)
Relinquished by:	Received by:	Date & Time:	O Other:

CHAIN OF CUSTODY RECORD

Date:

WHITE WITH SAMPLE • YELLOW TO CLIENT

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

Date: December 20, 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: **SMSD-17-7280**
Lab I.D.: **171213-66 through -112**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on December 13, 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: **SMSD-17-7280**

DATE SAMPLED: 12/12/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 12/13/17
DATE EXTRACTED: 12/14-15/17
DATE ANALYZED: 12/15-16/17
DATE REPORTED: 12/20/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 1 OF 3
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
1212-01	171213-66	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-02	171213-67	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-03	171213-68	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-04	171213-69	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-05	171213-70	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-06	171213-71	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-07	171213-72	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-08	171213-73	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-09	171213-74	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-10	171213-75	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)

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: **SMSD-17-7280**

DATE SAMPLED: 12/12/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 12/13/17
DATE EXTRACTED: 12/14-15/17
DATE ANALYZED: 12/16/17
DATE REPORTED: 12/20/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 2 OF 3
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
1212-11	171213-76	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-12	171213-77	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-13	171213-78	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-14	171213-79	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-15	171213-80	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-16	171213-81	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-17	171213-82	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-18	171213-83	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-19	171213-84	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-20	171213-85	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-22	171213-86	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-23	171213-87	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-24	171213-88	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-25	171213-89	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-26	171213-90	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-27	171213-91	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-28	171213-92	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-29	171213-93	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-30	171213-94	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-31	171213-95	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: **SMSD-17-7280**

DATE SAMPLED: 12/12&13/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 12/13/17
DATE EXTRACTED: 12/14-15/17
DATE ANALYZED: 12/16/17
DATE REPORTED: 12/20/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 3 OF 3
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
1212-32	171213-96	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-33	171213-97	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-34	171213-98	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-35	171213-99	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-36	171213-100	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-37	171213-101	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-38	171213-102	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-39	171213-103	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-40	171213-104	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-41	171213-105	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-43	171213-106	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-44	171213-107	ND	ND	ND	ND	ND	2.25	ND	2.25	1
1212-45	171213-108	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-46	171213-109	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-47	171213-110	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-48	171213-111	ND	ND	ND	ND	ND	ND	ND	ND	1
1212-49	171213-112	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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 12/15-16/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171215-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.082	**82%**	0.081	**81%**	**1%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.083	**83%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171213-56	171213-57	171213-58	171213-59	171213-60	171213-61
Tetra-chloro-meta-xylene	50-150	133%	140%	133%	137%	112%	97%	96%
Decachlorobipneyl	50-150	109%	99%	106%	121%	94%	94%	88%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171213-62	171213-63	171213-64	171213-65	171213-66	171213-67	171213-68	171213-69
Tetra-chloro-meta-xylene	136%	110%	116%	103%	133%	136%	122%	68%
Decachlorobipneyl	129%	95%	109%	94%	131%	87%	143%	70%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171213-70	171213-71	171213-72	171213-73	171213-74	171213-75
Tetra-chloro-meta-xylene	147%	139%	140%	101%	121%	132%
Decachlorobipneyl	94%	87%	85%	113%	80%	130%

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: 12/16/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171215-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.076	**76%**	0.086	**86%**	**13%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.086	**86%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171213-76	171213-77	171213-78	171213-79	171213-80	171213-81
Tetra-chloro-meta-xylene	50-150	123%	125%	79%	116%	114%	132%	143%
Decachlorobipneyl	50-150	122%	89%	104%	82%	92%	87%	86%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171213-82	171213-83	171213-84	171213-85	171213-86	171213-87	171213-88	171213-89
Tetra-chloro-meta-xylene	134%	118%	82%	145%	140%	137%	134%	149%
Decachlorobipneyl	96%	113%	84%	70%	96%	91%	88%	101%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171213-90	171213-91	171213-92	171213-93	171213-94	171213-95
Tetra-chloro-meta-xylene	126%	135%	142%	148%	77%	133%
Decachlorobipneyl	92%	136%	104%	109%	62%	61%

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: 12/16/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171215-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%**	0.085	**85%**	**1%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.090	**90%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171213-96	171213-97	171213-98	171213-99	171213-100	171213-101
Tetra-chloro-meta-xylene	50-150	111%	135%	148%	137%	135%	128%	134%
Decachlorobipneyl	50-150	83%	109%	110%	97%	97%	117%	93%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171213-102	171213-103	171213-104	171213-105	171213-106	171213-107	171213-108	171213-109
Tetra-chloro-meta-xylene	107%	132%	120%	111%	112%	148%	143%	120%
Decachlorobipneyl	118%	96%	104%	82%	85%	147%	139%	117%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171213-110	171213-111	171213-112			
Tetra-chloro-meta-xylene	125%	140%	145%			
Decachlorobipneyl	99%	120%	124%			

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. 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
☑ Week (Standard)
Other:

Misc./PO#

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: EPA 60 82	COMMENTS
1212-01	171213-66	12/12/17	1530	Bulk	1x4oz		ice	X	
1212-02	-67		1545		1x8oz			X	
1212-03	-68		1600					X	
1212-04	-69		1615					X	
1212-05	-70		1630					X	
1212-06	-71		1645					X	
1212-07	-72		1700					X	
1212-08	-73		1715					X	
1212-09	-74		1730					X	
1212-10	-75		1745					X	
1212-11	-76		1800					X	
1212-12	-77		1810					X	
1212-13	-78		1820					X	
1212-14	-79		1830					X	
1212-15	-80		1840					X	

Company Name: AHA Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar Ruvalcaba@AHAenviron.com
Tel:
Fax:

Sampler's Signature: [signature]
Project Name/ID: SMSD-17-7280

Relinquished by: [signature]	Received by: [signature]	Date & Time: 12/13/2017 3:48 PM
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 O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: ____________

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
X 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: EPA 8082	Misc./PO#	COMMENTS
1212-16	171213-81	12/12/17	1850	Bulk	1x8oz		Ice	X		
1212-17	-82		1910					X		
1212-18	-83		1910					X		
1212-19	-84		1920					X		
1212-20	-85		1930					X		
1212-22	-86		1950					X		
1212-23	-87		2000					X		
1212-24	-88		2010					X		
1212-25	-89		2020					X		
1212-26	-90		2030					X		
1212-27	-91		2040					X		
1212-28	-92		2050					X		
1212-29	-93		2100					X		
1212-30	-94		2110					X		
1212-31	-95		2120					X		

Company Name: AHA Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar Ruvalcaba
Tel:
Fax:

Sampler's Signature:

Project Name/ID: SMSD-17-7280

Relinquished by:
Relinquished by:
Relinquished by:

Received by:
Received by:
Received by:

Date & Time: 12/13/2017 248 pm
Date & Time:
Date & Time:

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

CHAIN OF CUSTODY RECORD

Date:

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
- X 1 Week (Standard)
- Other:

Misc./PO#

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: EPA 8082	COMMENTS
1212-32	171213-96	12/12/17	2130	Bulk	1x8oz		Ice	X	
1212-33	-97		2140					X	
1212-34	-98		2150					X	
1212-35	-99		2200					X	
1212-36	-100		2210					X	
1212-37	-101		2220					X	
1212-38	-102		2230					X	
1212-39	-103		2240					X	
1212-40	-104		2250					X	
1212-41	-105		2300					X	
1212-43	-106		2320					X	
1212-44	-107		2330					X	
1212-45	-108		2340					X	
1212-46	-109		2350					X	
1212-47	-110	12/13/17	0000					X	

Company Name:

Project Contact:

Sampler's Signature:

Address:

Tel:

Project Name/ID:

City/State/Zip:

Fax:

Relinquished by: [signature]	Received by: [signature]	Date & Time: 12/13/2017 2:48 pm
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
- O Store (30 Days)
- O Other:

CHAIN OF CUSTODY RECORD

Date: ______________

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	EPA 8082	Misc./PO#	COMMENTS
				Analysis Required						
1212-98	171213-111	12/13/17	0015	Bulk	1x80z		ICE	X		
1212-99	" -112	"	0030	"	"		"	X		

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar Rincalcaba
Tel:
Fax:

Sampler's Signature:
Project Name/ID: SMSD-17-7280

Relinquished by:	Received by:	Date & Time: 12/13/17 2:48PM	Instructions for Sample Storage After Analysis:
Relinquished by:	Received by:	Date & Time:	O Dispose of O Return to Client O Store (30 Days)
Relinquished by:	Received by:	Date & Time:	O Other:

CHAIN OF CUSTODY RECORD

Date: _____

WHITE WITH SAMPLE • YELLOW TO CLIENT

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

Date: January 3, 2018

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: **McKinley E.S. / SMSD-17-7280**
Lab I.D.: **171229-2 through -35**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on December 29, 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

for

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: **McKinley E.S. / SMSD-17-7280**

DATE SAMPLED:12/27/17
MATRIX:SOLID
REPORT TO:MR. CESAR RUVALCABA

DATE RECEIVED:12/29/17
DATE EXTRACTED:12/29-30/17
DATE ANALYZED:01/02&03/18
DATE REPORTED:01/03/18

PCBs ANALYSIS; PAGE 1 OF 2
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
1227-01	171229-2	ND	ND	ND	ND	ND	ND	ND	ND	2^
1227-02	171229-3	ND	ND	ND	ND	ND	ND	ND	ND	2^
1227-03	171229-4	ND	ND	ND	ND	ND	ND	ND	ND	4^
1227-04	171229-5	ND	ND	ND	ND	ND	ND	ND	ND	4^
1227-05	171229-6	ND	ND	ND	ND	ND	ND	ND	ND	20^
1227-06	171229-7	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-07	171229-8	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-08	171229-9	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-09	171229-10	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-10	171229-11	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-11	171229-12	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-12	171229-13	ND	ND	ND	ND	ND	ND	ND	ND	2^
1227-13	171229-14	ND	ND	ND	ND	ND	ND	ND	ND	40^
1227-14	171229-15	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-15	171229-16	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-16	171229-17	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-17	171229-18	ND	ND	ND	ND	ND	ND	ND	ND	2^^
1227-18	171229-19	ND	ND	ND	ND	ND	ND	ND	ND	4^
1227-19	171229-20	ND	ND	ND	ND	ND	ND	ND	ND	2^
1227-20	171229-21	ND	ND	ND	ND	ND	ND	ND	ND	40^
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 matrix interference
^^ = 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: **McKinley E.S. / SMSD-17-7280**

DATE SAMPLED:12/27/17
MATRIX:SOLID
REPORT TO:MR. CESAR RUVALCABA

DATE RECEIVED:12/29/17
DATE EXTRACTED:12/29-30/17
DATE ANALYZED:01/02&03/18
DATE REPORTED:01/03/18

PCBs ANALYSIS; PAGE 2 OF 2
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
1227-22	171229-22	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-23	171229-23	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-24	171229-24	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-25	171229-25	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-26	171229-26	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-27	171229-27	ND	ND	ND	ND	ND	ND	ND	ND	2^
1227-28	171229-28	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-29	171229-29	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-30	171229-30	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-31	171229-31	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-32	171229-32	ND	ND	ND	ND	ND	ND	ND	ND	2^^
1227-33	171229-33	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-34	171229-34	ND	ND	ND	ND	ND	ND	ND	ND	1
1227-35	171229-35	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 matrix interference
^^ = Actual detection limit raised due to limited sample

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

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:

RUSH

Misc./PO#

SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA 8082									COMMENTS
1227-01	171229-2	12/27/17		S	1 4oz		Ice	X									
-02	-3							X									
-03	-4							X									
-04	-5							X									
-05	-6							X									
-06	-7							X									
-07	-8							X									
-08	-9							X									
-09	-10							X									
-10	-11							X									
-11	-12							X									
-12	-13							X									
-13	-14							X									
-14	-15							X									
-15	-16							X									

Analysis Required

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar Ruvalcaba
Tel: (310)951-9485
Fax:

Sampler's Signature: S.F. / J.R.
Project Name/ID: McKinley E.S. SMSD-17-7280

Relinquished by: [signature]	Received by: [signature]	Date & Time: 12/29/17 10AM
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: 12/29/17

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 (circled)
0 48 Hours
0 72 Hours
0 1 Week (Standard)
Other:

RUSH

Misc./PO#

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA 9002								COMMENTS
1227-16	171229-17	12/27/17		Bulk	N/A		Ice	X								
1227-17	-18							X								
1227-18	-19							X								
1227-19	-20							X								
1227-20	-21							X								
1227-22	-22							X								
1227-23	-23							X								
1227-24	-24							X								
1227-25	-25							X								
1227-26	-26							X								
1227-27	-27							X								
1227-28	-28							X								
1227-29	-29							X								
1227-30	-30							X								
1227-31	-31							X								

Analysis Required

Company Name: AHA Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar Ruvalcaba
Tel: (310) 951-9485
Fax:

Sampler's Signature: S.F. / J.R.
Project Name/ID:

Relinquished by: [signature]	Received by: [signature]	Date & Time: 12/29/17 11 AM
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: 12/29/17

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:

RUSH

Misc./PO#

SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA 9082 (Analysis Required)									COMMENTS
1227-32	171229-32	12/27/17		Bulk	1X6oz		Ice	X									
-33	-33							X									
-34	-34							X									
-35	-35							X									

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar Ruvalcaba
Tel: (310) 951-9485
Fax:

Sampler's Signature: S.F/J.R.
Project Name/ID:

Relinquished by: [signature]	Received by: [signature]	Date & Time: 12/29/17
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: 12/29/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

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: 1/2-3/2018

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 180102-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.094	**94%**	0.078	**78%**	**19%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.088	**88%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171229-22	17129-23	171229-24	17129-25	171229-26	171229-27
Tetra-chloro-meta-xylene	50-150	107%	137%	111%	106%	124%	114%	126%
Decachlorobipneyl	50-150	110%	103%	113%	83%	106%	76%	54%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171229-28	171229-29	171229-30	171229-31	171229-32	171229-33	171229-34	171229-35
Tetra-chloro-meta-xylene	136%	94%	131%	117%	114%	125%	138%	145%
Decachlorobipneyl	74%	60%	111%	99%	64%	94%	76%	100%

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

ALTA

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 1/2-3/2018

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 180102-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.110	**110%**	0.104	**104%**	**6%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.083	**83%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171229-2	171229-3	171229-4	171229-5	171229-6	171229-7
Tetra-chloro-meta-xylene	50-150	114%	62%	113%	116%	91%	117%	96%
Decachlorobipneyl	50-150	59%	111%	61%	131%	134%	81%	140%

~~140%~~ CAO

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171229-8	171229-9	171229-10	171229-11	171229-12	171229-13	171229-14	171229-15
Tetra-chloro-meta-xylene	72%	94%	115%	102%	87%	99%	87%	133%
Decachlorobipneyl	105%	148%	77%	62%	52%	133%	71%	108%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171229-16	171229-17	171229-18	171229-19	171229-20	171229-21
Tetra-chloro-meta-xylene	94%	108%	140%	99%	101%	133%
Decachlorobipneyl	129%	135%	67%	116%	96%	51%

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)*

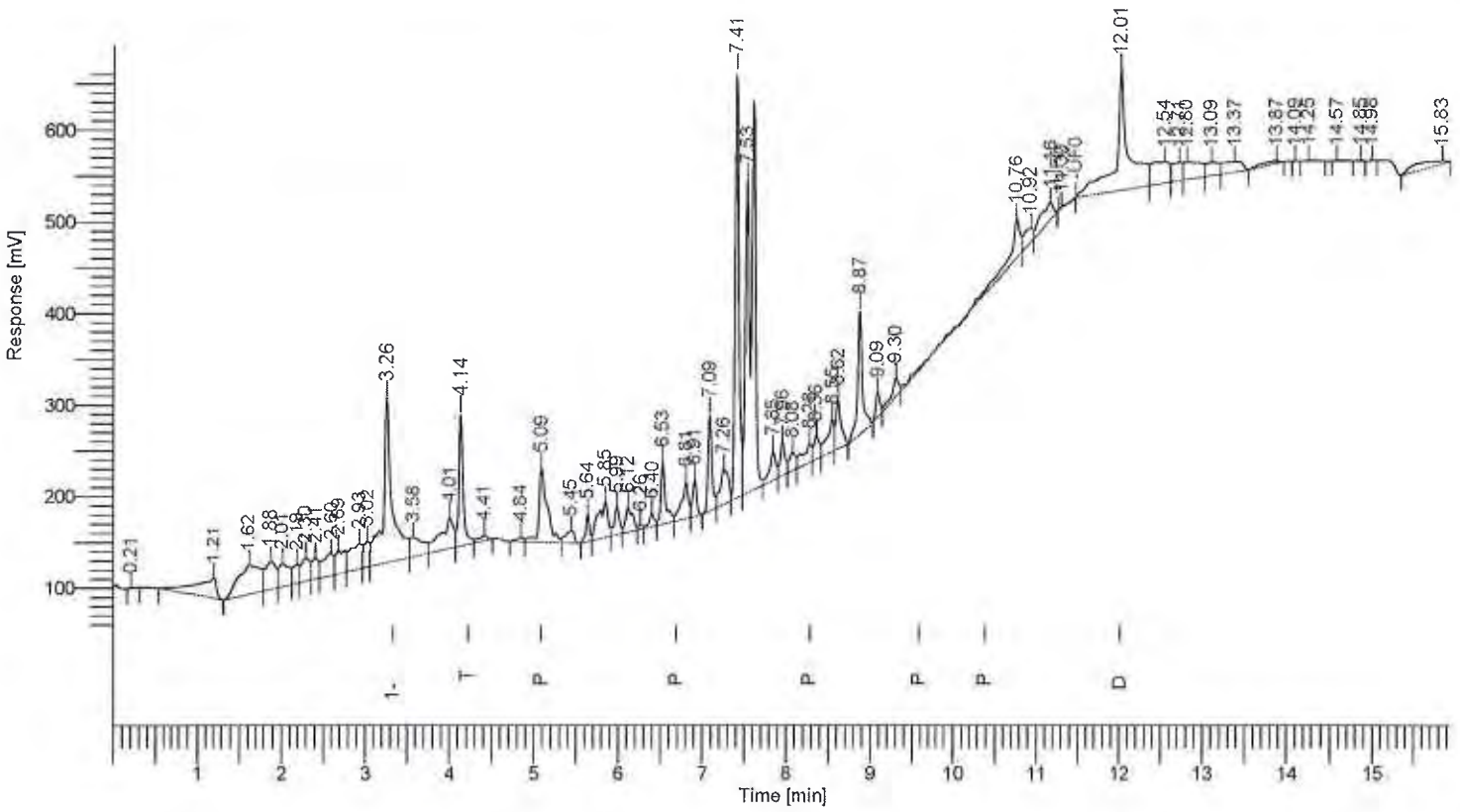
Note: ***LCS, MS, MSD are in control therefore results are in control.***

Analyzed and Reviewed By: _____

Final Reviewer: _____

Software Version	: 6.3.2.0646	Date	: 1/2/2018 1:53:49 PM
Sample Name	: 171229-2 0.2/2	Data Acquisition Time	: 1/2/2018 12:07:38 PM
Instrument Name	: GC-E	Channel	: B
Rack/Vial	: 0/7	Operator	: GC
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 9		

Result File : D:\GC DATA\GC-E\E02018\E1801\E180102\B009.rst
Sequence File : D:\GC DATA\GC-E\E02018\E1801\E180102\E170102.seq

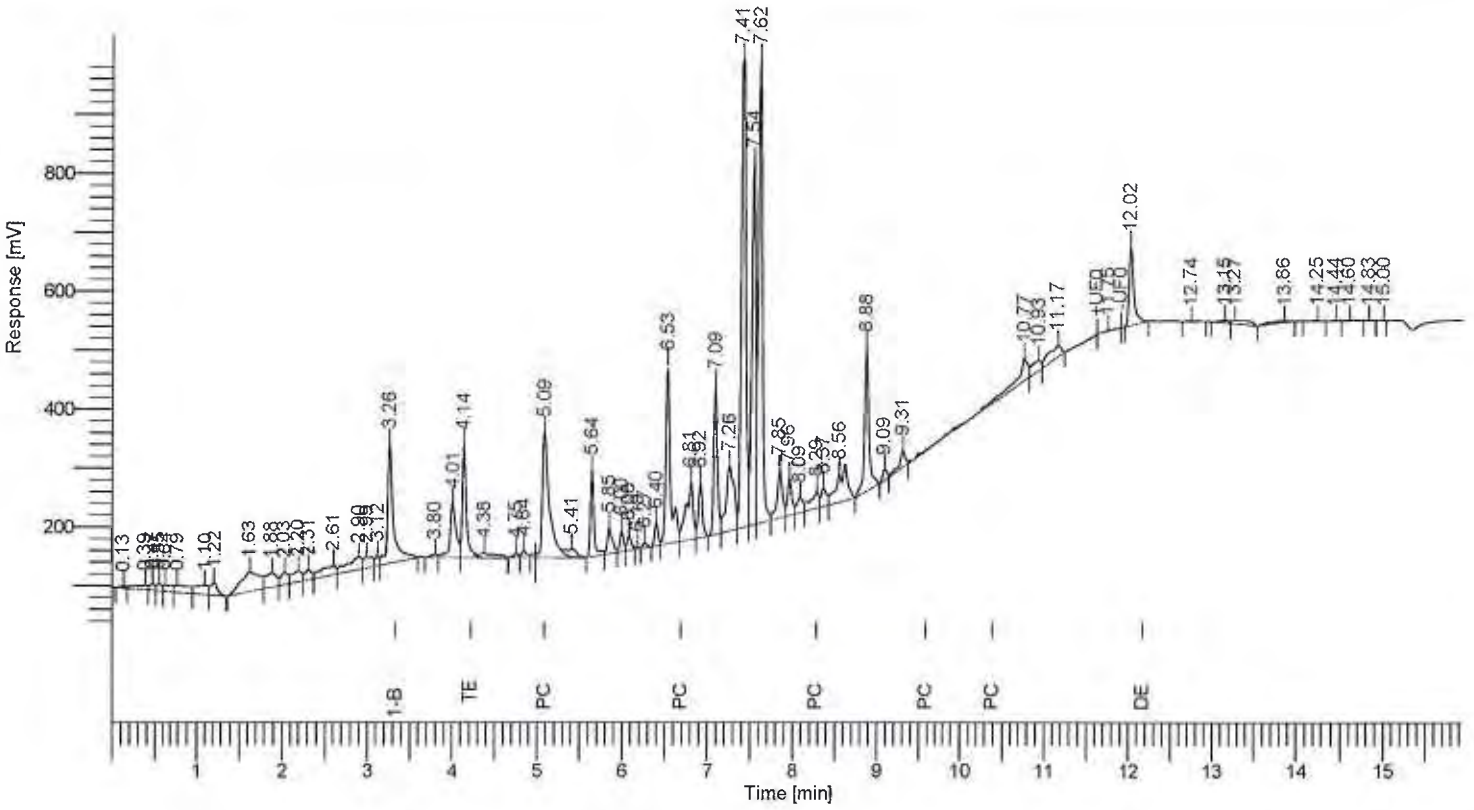


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
13	1-Bromo-2-Nitrobenzene	3.26	1396498.46	180132.66	----------
16	Tetra chloro-meta-xylene	4.14	494828.78	143108.17	61.950
	PCB (1016+1260)	5.09	914573.09	168653.29	0.242
48	Decachlorobiphenyl	12.01	1425253.57	132135.39	111.377
			4231153.91	624029.50	173.569

Software Version : 6.3.2.0646		Date	: 1/2/2018 1:54:43 PM
Sample Name	: 171229-3 0.2/2	Data Acquisition Time	: 1/2/2018 12:29:06 PM
Instrument Name	: GC-E	Channel	: B
Rack/Vial	: 0/8	Operator	: GC
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 10		

Result File : D:\GC DATA\GC-E\E02018\E1801\E180102\B010.rst
Sequence File : D:\GC DATA\GC-E\E02018\E1801\E180102\E170102.seq

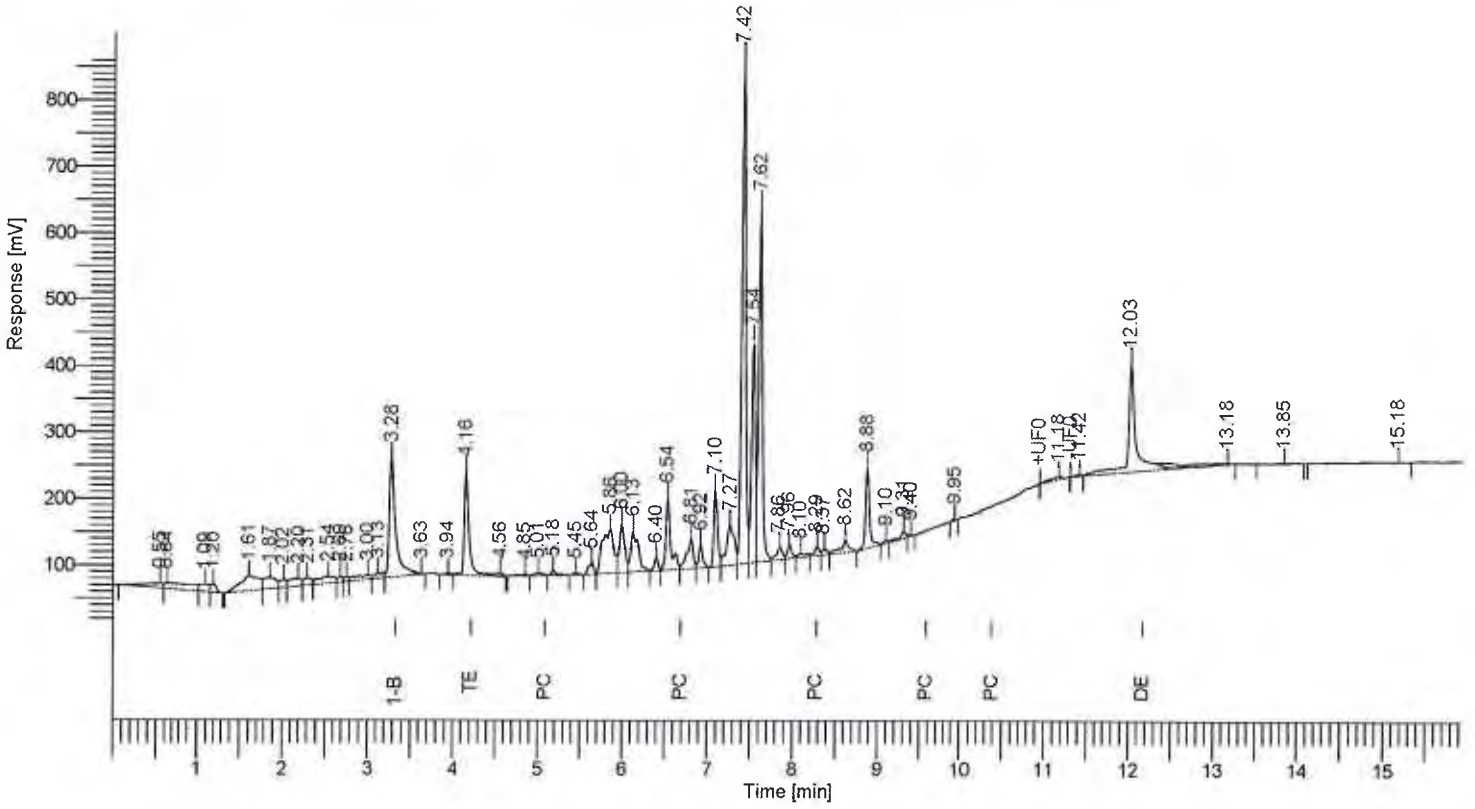


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
18	1-Bromo-2-Nitrobenzene	3.26	958655.25	200028.38	----------
21	Tetra chloro-meta-xylene	4.14	620702.73	185513.04	113.201
	PCB (1016+1260)	6.53	2535801.58	534504.56	0.977
55	Decachlorobiphenyl	12.02	537658.96	133745.39	61.205
			4652818.52	1053791.39	175.383

Software Version : 6.3.2.0646		Date	: 1/3/2018 8:37:30 AM
Sample Name	: 171229-4 0.5/10 RE	Data Acquisition Time	: 1/3/2018 3:42:52 AM
Instrument Name	: GC-E	Channel	: B
Rack/Vial	: 0/48	Operator	: GC
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 53		

Result File : D:\GC DATA\GC-E\E02018\E1801\E180102\B053.rst
Sequence File : D:\GC DATA\GC-E\E02018\E1801\E180102\E170102.seq

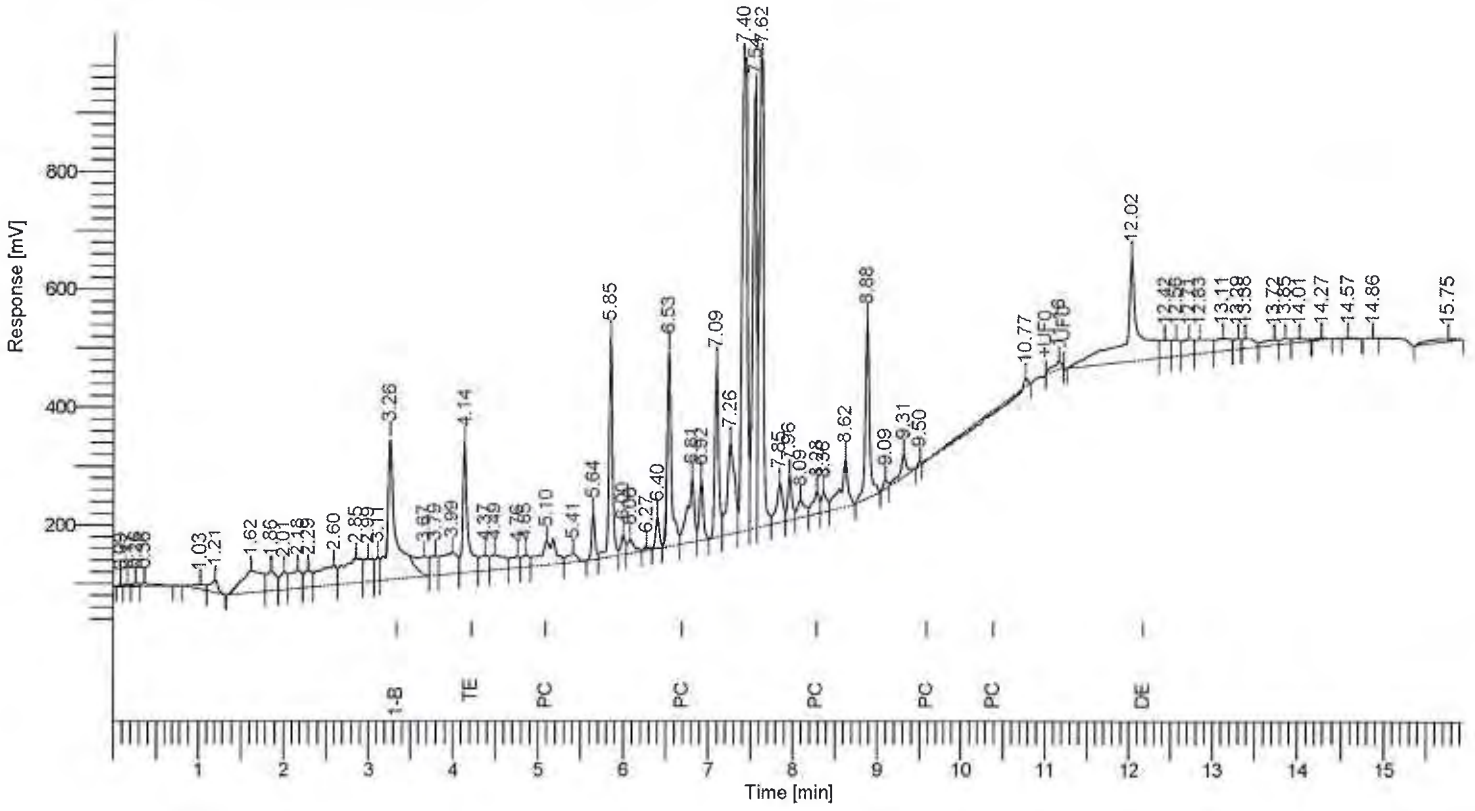


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
15	1-Bromo-2-Nitrobenzene	3.28	910041.89	179780.24	----------
18	Tetra chloro-meta-xylene	4.16	602960.11	153009.93	115.839
	PCB (1016+1260)	6.54	510372.96	118511.36	0.207
50	Decachlorobiphenyl	12.03	1092094.75	162785.98	130.961
			3115469.72	614087.50	247.007

Software Version : 6.3.2.0646		Date	: 1/2/2018 1:59:07 PM
Sample Name	: 171229-5 0.1/2	Data Acquisition Time	: 1/2/2018 1:11:19 PM
Instrument Name	: GC-E	Channel	: B
Rack/Vial	: 0/10	Operator	: GC
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 12		

Result File : D:\GC DATA\GC-E\E02018\E1801\E180102\B012.rst
Sequence File : D:\GC DATA\GC-E\E02018\E1801\E180102\E170102.seq

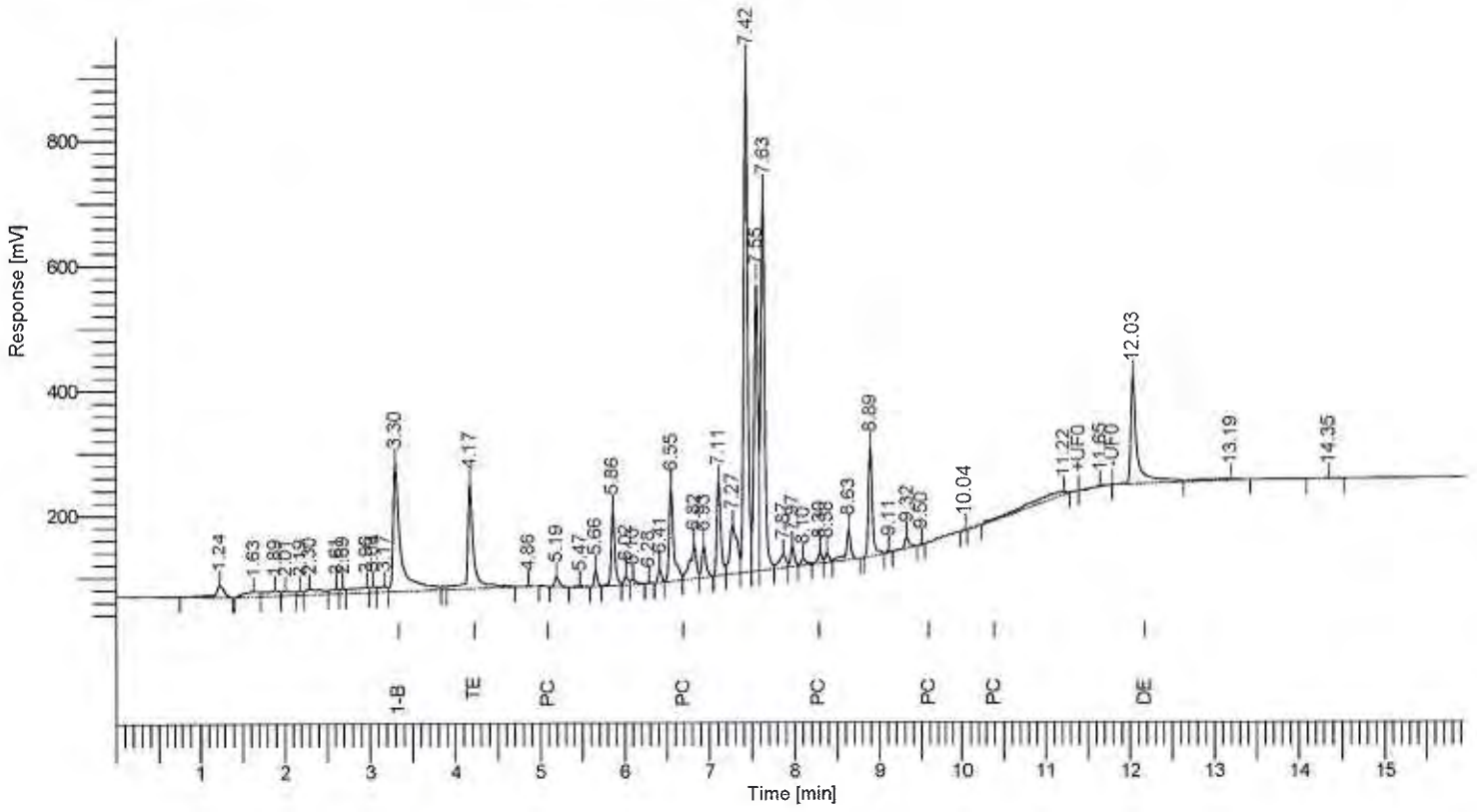


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
16	1-Bromo-2-Nitrobenzene	3.26	1729951.10	240271.23	----------
20	Tetra chloro-meta-xylene	4.14	895573.57	216820.47	90.510
	PCB (1016+1260)	6.53	1894622.81	402655.67	0.405
53	Decachlorobiphenyl	12.02	2121725.20	178090.47	133.844
			6641872.68	1037837.84	224.758

Software Version : 6.3.2.0646		Date	: 1/3/2018 8:38:12 AM
Sample Name : 171229-6 0.2/20 RE		Data Acquisition Time	: 1/3/2018 4:03:25 AM
Instrument Name : GC-E		Channel	: B
Rack/Vial : 0/49		Operator	: GC
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 54			

Result File : D:\GC DATA\GC-E\E02018\E1801\E180102\B054.rst
Sequence File : D:\GC DATA\GC-E\E02018\E1801\E180102\E170102.seq

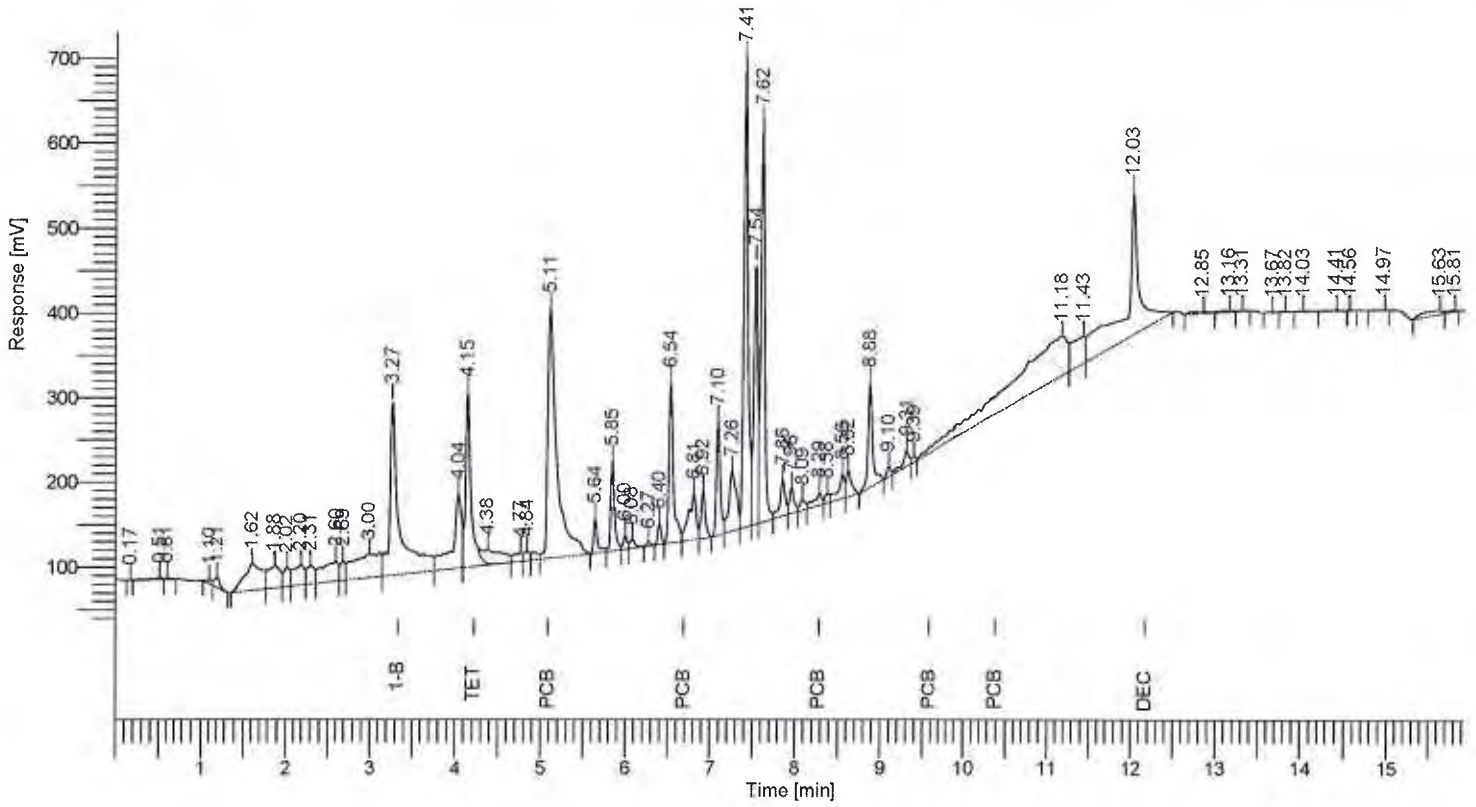


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
12	1-Bromo-2-Nitrobenzene	3.30	1263573.28	205455.48	----------
13	Tetra chloro-meta-xylene	4.17	848328.12	167557.09	117.379
	PCB (1016+1260)	6.55	631659.72	163360.31	0.185
44	Decachlorobiphenyl	12.03	934336.28	172136.89	80.695
			3677897.40	708509.77	198.259

Software Version : 6.3.2.0646		Date	: 1/3/2018 10:07:10 AM
Sample Name	: 171229-13 0.2/2	Data Acquisition Time	: 1/2/2018 4:19:01 PM
Instrument Name	: GC-E	Channel	: B
Rack/Vial	: 0/19	Operator	: GC
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 21		

Result File : D:\GC DATA\GC-E\E02018\E1801\E180102\B021.rst
Sequence File : D:\GC DATA\GC-E\E02018\E1801\E180102\E170102.seq

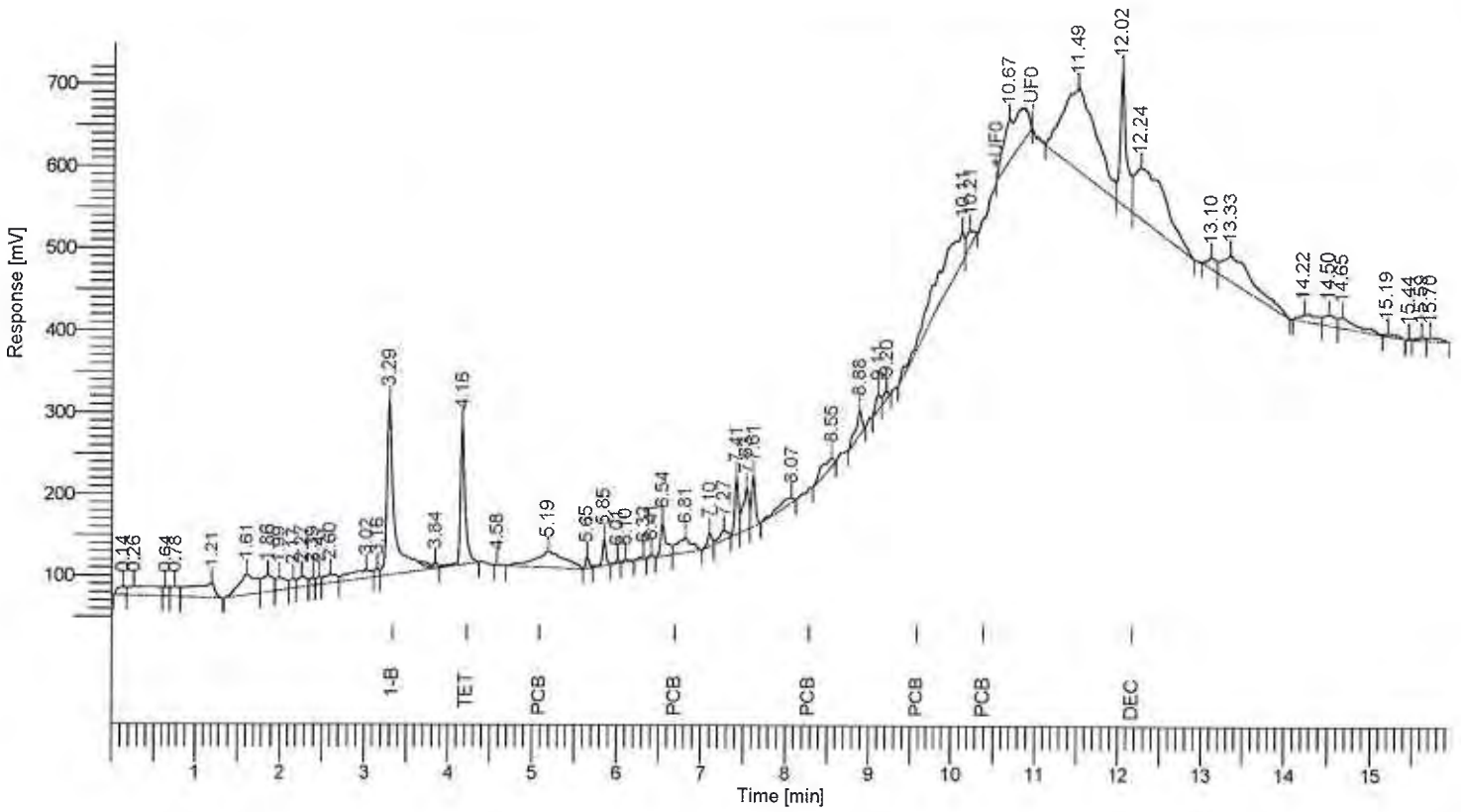


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
14	1-Bromo-2-Nitrobenzene	3.27	1584303.24	206472.16	----------
16	Tetra chloro-meta-xylene	4.15	899567.84	202338.98	99.271
	PCB (1016+1260)	5.11	2950687.69	501755.29	0.688
48	Decachlorobiphenyl	12.03	1930684.73	167290.03	132.989
			7365243.50	1077856.47	232.948

Software Version : 6.3.2.0646		Date	: 1/3/2018 9:55:29 AM
Sample Name : 171229-14 1/200 RE		Data Acquisition Time	: 1/3/2018 9:38:47 AM
Instrument Name : GC-E		Channel	: B
Rack/Vial : 0/51		Operator	: tcprocess
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 2			

Result File : D:\GC DATA\GC-E\E02018\E1801\E180102\B058.rst
Sequence File : D:\GC DATA\GC-E\E02018\E1801\E180102\E170102.seq

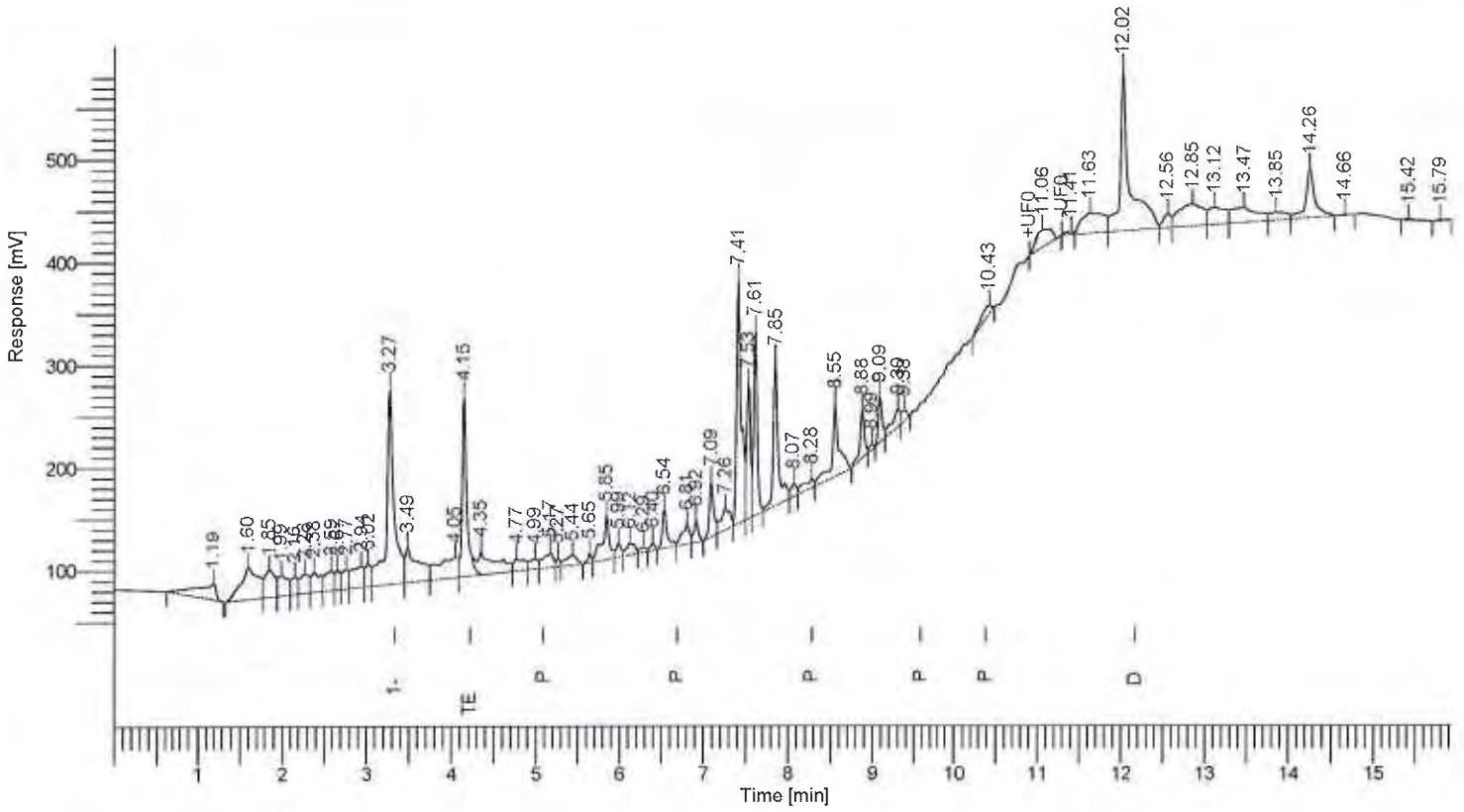


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
16	1-Bromo-2-Nitrobenzene	3.29	1334521.51	211989.25	----------
18	Tetra chloro-meta-xylene	4.16	665311.28	170612.56	87.162
	PCB (1016+1260)	6.54	436933.99	66445.83	0.121
43	Decachlorobiphenyl	12.02	867343.73	162018.67	70.926
			3304110.51	611066.31	158.209

Software Version : 6.3.2.0646		Date	: 1/3/2018 8:24:15 AM
Sample Name : 171229-19 0.1/2		Data Acquisition Time	: 1/2/2018 6:46:32 PM
Instrument Name : GC-E		Channel	: B
Rack/Vial : 0/25		Operator	: GC
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 28			

Result File : D:\GC DATA\GC-E\E02018\E1801\E180102\B028.rst
Sequence File : D:\GC DATA\GC-E\E02018\E1801\E180102\E170102.seq

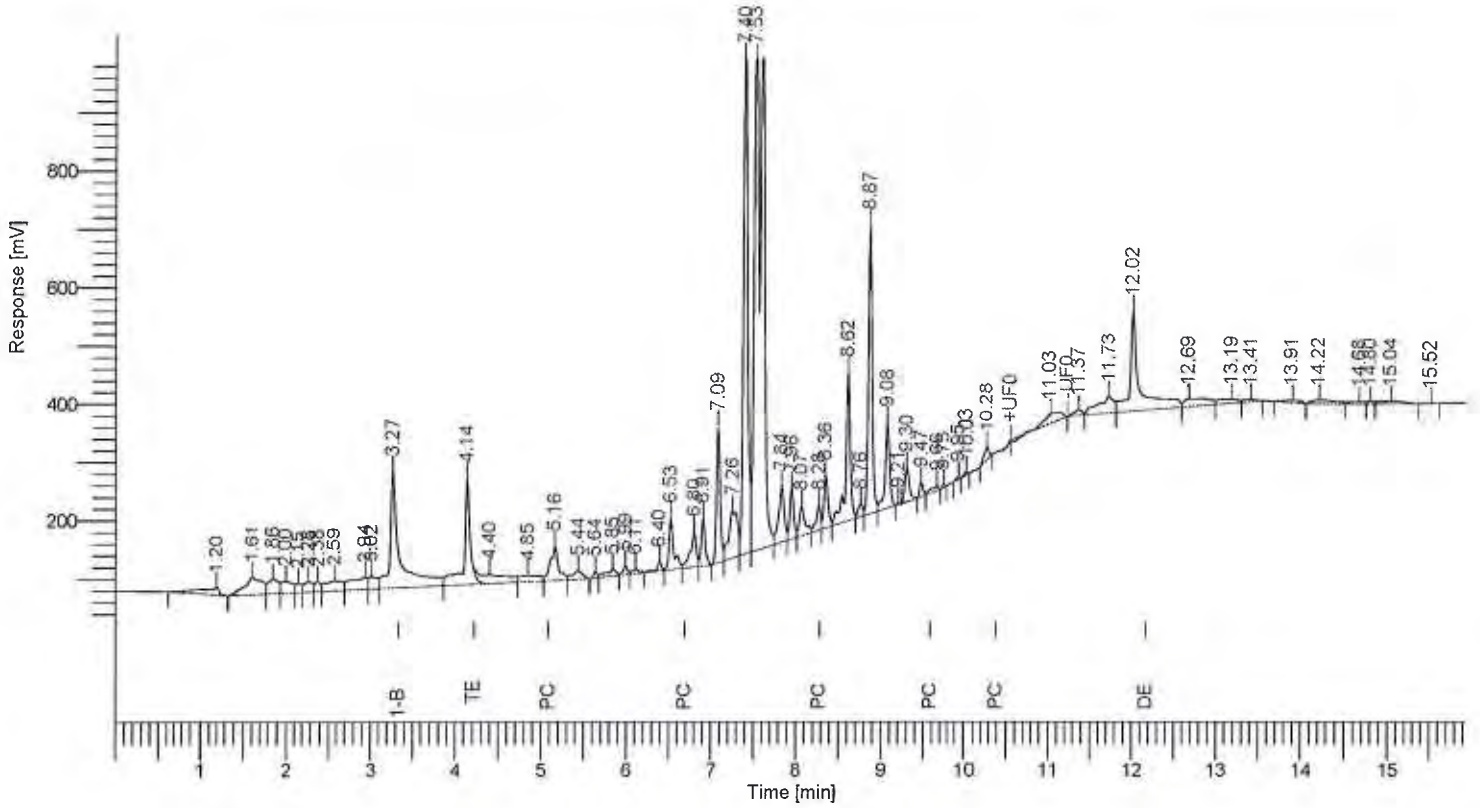


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
13	1-Bromo-2-Nitrobenzene	3.27	1190747.35	188989.97	----------
16	Tetra chloro-meta-xylene	4.15	672120.09	172348.94	98.686
	PCB (1016+1260)	6.54	335836.67	68923.70	0.104
50	Decachlorobiphenyl	12.02	1262035.34	156816.29	115.663
			3460739.44	587078.89	214.453

Software Version : 6.3.2.0646		Date	: 1/3/2018 8:24:55 AM
Sample Name : 171229-20 0.2/2		Data Acquisition Time	: 1/2/2018 7:07:24 PM
Instrument Name : GC-E		Channel	: B
Rack/Vial : 0/26		Operator	: GC
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 29			

Result File : D:\GC DATA\GC-E\E02018\E1801\E180102\B029.rst
Sequence File : D:\GC DATA\GC-E\E02018\E1801\E180102\E170102.seq

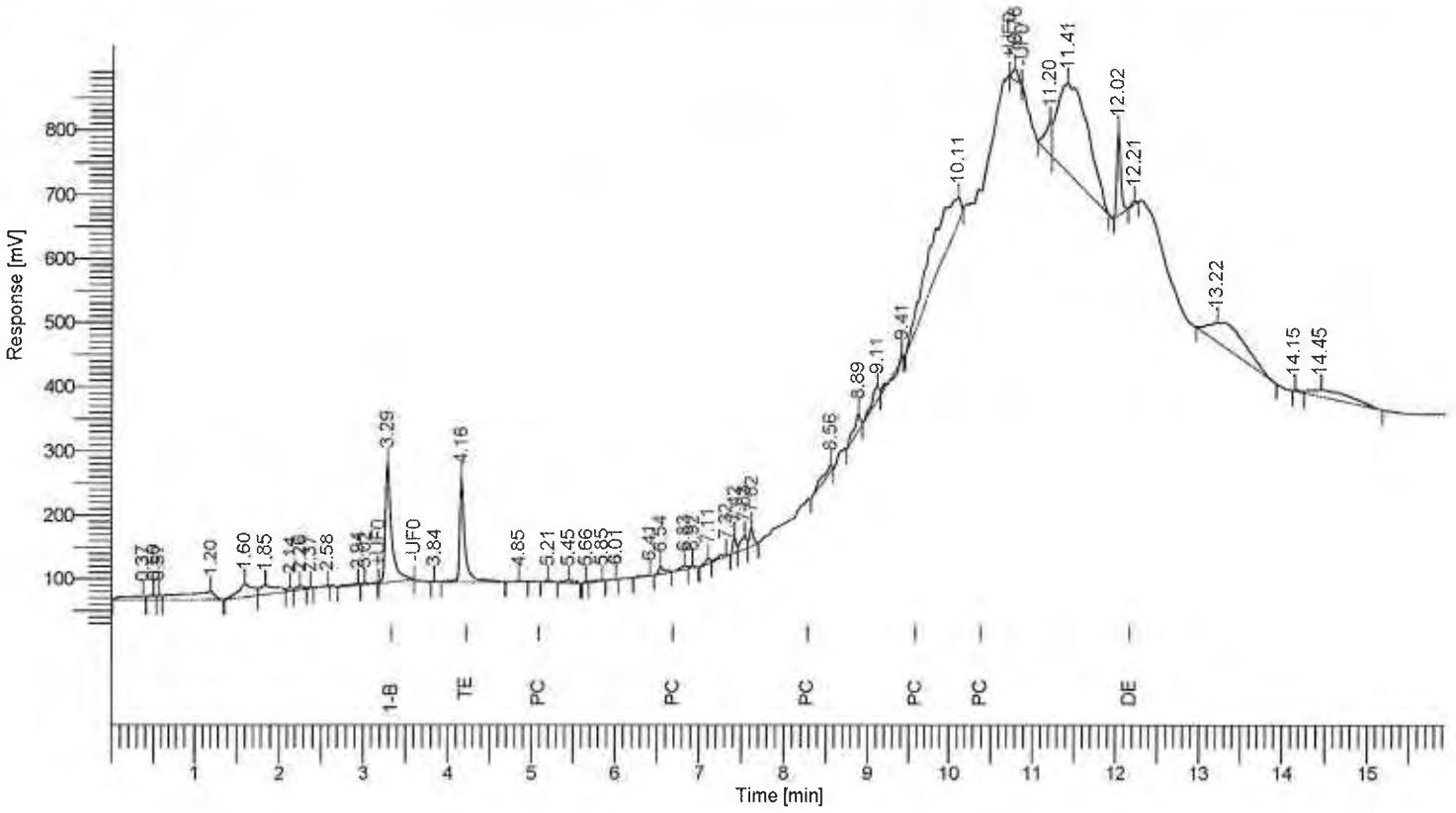


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
11	1-Bromo-2-Nitrobenzene	3.27	1600454.24	197741.93	----------
12	Tetra chloro-meta-xylene	4.14	923548.79	178740.45	100.889
	PCB (1016+1260)	6.53	756171.38	183791.98	0.175
49	Decachlorobiphenyl	12.02	1403885.35	171103.98	95.726
			4684059.76	731378.34	196.790

Software Version : 6.3.2.0646		Date	: 1/3/2018 9:47:55 AM
Sample Name : 171229-21 1/200 RE		Data Acquisition Time	: 1/3/2018 9:18:05 AM
Instrument Name : GC-E		Channel	: B
Rack/Vial : 0/50		Operator	: tcprocess
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 1			

Result File : D:\GC DATA\GC-E\E02018\E1801\E180102\B057.rst
Sequence File : D:\GC DATA\GC-E\E02018\E1801\E180102\E170102.seq

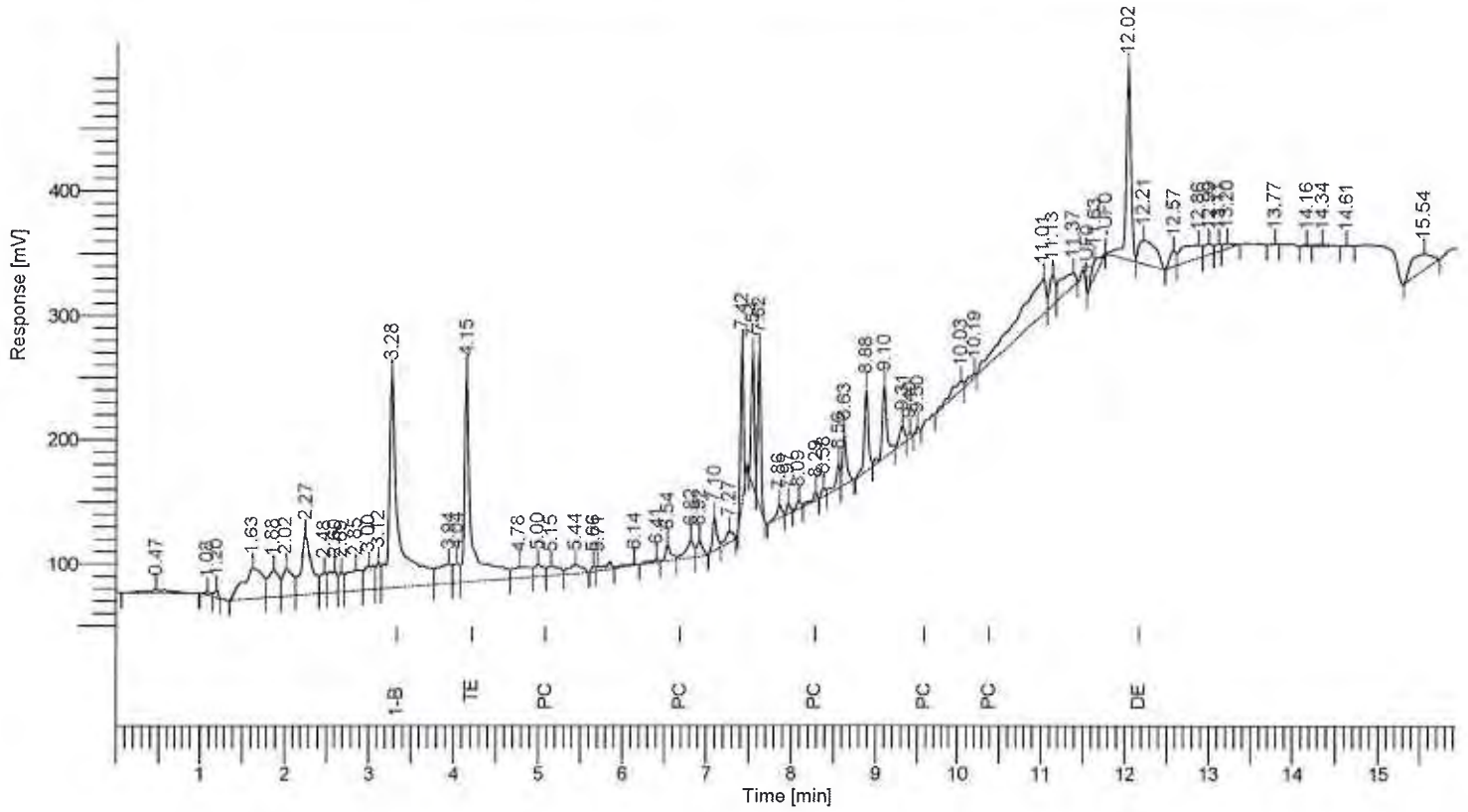


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
13	1-Bromo-2-Nitrobenzene	3.29	944969.87	187984.04	----------
15	Tetra chloro-meta-xylene	4.16	716500.15	160948.92	132.564
	PCB (1016+1260)	6.54	96905.81	18937.84	0.038
39	Decachlorobiphenyl	12.02	439690.68	129139.35	50.778
			2198066.51	497010.15	183.379

Software Version : 6.3.2.0646		Date	: 1/3/2018 8:31:00 AM
Sample Name : 171229-27 0.2/2		Data Acquisition Time	: 1/2/2018 11:03:52 PM
Instrument Name : GC-E		Channel	: B
Rack/Vial : 0/36		Operator	: GC
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 40			

Result File : D:\GC DATA\GC-E\E02018\E1801\E180102\B040.rst
Sequence File : D:\GC DATA\GC-E\E02018\E1801\E180102\E170102.seq



PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
14	1-Bromo-2-Nitrobenzene	3.28	1308538.14	171144.34	----------
17	Tetra chloro-meta-xylene	4.15	940092.84	167251.26	125.606
	PCB (1016+1260)	6.54	215030.47	37305.71	0.061
52	Decachlorobiphenyl	12.02	643691.96	153174.77	53.683
			3107353.41	528876.07	179.350

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

Date: January 3, 2018

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: **McKinley E.S. / SMSD-17-7280**
Lab I.D.: **171229-36 through -71**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on December 29, 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

for

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: McKinley E.S. / SMSD-17-7280

DATE SAMPLED:12/28/17
MATRIX:SOLID
REPORT TO:MR. CESAR RUVALCABA

DATE RECEIVED:12/29/17
DATE EXTRACTED:12/29-30/17
DATE ANALYZED:01/02&03/18
DATE REPORTED:01/03/18

PCBs ANALYSIS; PAGE 1 OF 2
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
1228-01	171229-36	ND	ND	ND	ND	ND	ND	ND	ND	2^^
1228-02	171229-37	ND	ND	ND	ND	ND	ND	ND	ND	1
1228-03	171229-38	ND	ND	ND	ND	ND	ND	ND	ND	2^
1228-04	171229-39	ND	ND	ND	ND	ND	ND	ND	ND	2^
1228-05	171229-40	ND	ND	ND	ND	ND	ND	ND	ND	2^
1228-06	171229-41	ND	ND	ND	ND	ND	ND	ND	ND	4^
1228-07	171229-42	ND	ND	ND	ND	ND	ND	ND	ND	4^^
1228-08	171229-43	ND	ND	ND	ND	ND	ND	ND	ND	2^
1228-09	171229-44	ND	ND	ND	ND	ND	ND	ND	ND	1
1228-10	171229-45	ND	ND	ND	ND	ND	ND	ND	ND	2^
1228-11	171229-46	ND	ND	ND	ND	ND	ND	ND	ND	1
1228-12	171229-47	ND	ND	ND	ND	ND	ND	ND	ND	1
1228-13	171229-48	ND	ND	ND	ND	ND	ND	ND	ND	2^
1228-14	171229-49	ND	ND	ND	ND	ND	ND	ND	ND	1
1228-15	171229-50	ND	ND	ND	ND	ND	ND	ND	ND	2^
1228-16	171229-51	ND	ND	ND	ND	ND	ND	ND	ND	2^
1228-17	171229-52	ND	ND	ND	ND	ND	ND	ND	ND	40^
1228-18	171229-52A	ND	ND	ND	ND	ND	ND	ND	ND	40^
1228-19	171229-53	ND	ND	ND	ND	ND	ND	ND	ND	1
1228-21	171229-54	ND	ND	ND	ND	ND	ND	ND	ND	4^^
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 matrix interference
^^ = 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: McKinley E.S. / SMSD-17-7280

DATE RECEIVED:12/29/17
DATE SAMPLED:12/28/17 DATE EXTRACTED:12/29-30/17
MATRIX:SOLID DATE ANALYZED:01/02&03/18
REPORT TO:MR. CESAR RUVALCABA DATE REPORTED:01/03/18

PCBs ANALYSIS; PAGE 2 OF 2
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
1228-22	171229-55	ND	ND	ND	ND	ND	ND	ND	ND	2^
1228-23	171229-56	ND	ND	ND	ND	ND	ND	ND	ND	1
1228-24	171229-57	ND	ND	ND	ND	ND	ND	ND	ND	8^^
1228-25	171229-58	ND	ND	ND	ND	ND	ND	ND	ND	2^^
1228-26	171229-59	ND	ND	ND	ND	ND	ND	ND	ND	2^^
1228-27	171229-60	ND	ND	ND	ND	ND	ND	ND	ND	2^^
1228-28	171229-61	ND	ND	ND	ND	ND	ND	ND	ND	2^^
1228-29	171229-62	ND	ND	ND	ND	ND	ND	ND	ND	2^^
1228-30	171229-63	ND	ND	ND	ND	ND	ND	ND	ND	2^^
1228-31	171229-64	ND	ND	ND	ND	ND	ND	ND	ND	2^^
1228-32	171229-65	ND	ND	ND	ND	ND	ND	ND	ND	2^^
1228-33	171229-66	ND	ND	ND	ND	ND	ND	ND	ND	4^^
1228-34	171229-67	ND	ND	ND	ND	ND	ND	ND	ND	4^^
1228-35	171229-68	ND	ND	ND	ND	ND	ND	ND	ND	4^^
1228-36	171229-69	ND	ND	ND	ND	ND	ND	ND	ND	2^^
1228-37	171229-70	ND	ND	ND	ND	ND	ND	ND	ND	4^^
1228-38	171229-71	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 matrix interference
^^ = 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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 1/2-3/2018

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 180102-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.107	**107%**	0.100	**100%**	**7%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.079	**79%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171229-36	171229-37	171229-38	171229-39	171229-40	171229-41
Tetra-chloro-meta-xylene	50-150	128%	106%	106%	105%	108%	80%	89%
Decachlorobipneyl	50-150	82%	83%	82%	78%	78%	52%	55%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171229-42	171229-43	171229-44	171229-45	171229-46	171229-47	171229-48	171229-49
Tetra-chloro-meta-xylene	88%	87%	102%	87%	89%	97%	87%	91%
Decachlorobipneyl	58%	52%	57%	54%	52%	54%	50%	52%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171229-50	171229-51	171229-52	171229-52A	171229-53	171229-54
Tetra-chloro-meta-xylene	85%	91%	84%	84%	83%	90%
Decachlorobipneyl	51%	50%	50%	52%	51%	50%

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: 1/2-3/2018

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 180102-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.080	**80%**	0.081	**81%**	**1%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.080	**80%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171229-55	171229-56	171229-57	171229-58	171229-59	171229-60
Tetra-chloro-meta-xylene	50-150	98%	88%	93%	81%	99%	90%	91%
Decachlorobipneyl	50-150	57%	51%	50%	51%	53%	51%	52%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171229-61	171229-62	171229-63	171229-64	171229-65	171229-66	171229-67	171229-68
Tetra-chloro-meta-xylene	93%	88%	83%	87%	89%	93%	84%	94%
Decachlorobipneyl	53%	54%	50%	51%	54%	52%	52%	54%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171229-69	171229-70	171229-71			
Tetra-chloro-meta-xylene	94%	92%	96%			
Decachlorobipneyl	52%	52%	53%			

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. 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:

RUSH

EPA 8082

Misc./PO#

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
1228-01	171229-36	12/28/17		Bulk	1		ICE	X	
1228-02	-37				X407			X	
1228-03	-38							X	
1228-04	-39							X	
1228-05	-40							X	
1228-06	-41							X	
1228-07	-42							X	
1228-08	-43							X	
1228-09	-44							X	
1228-10	-45							X	
1228-11	-46							X	
1228-12	-47							X	
1228-13	-48							X	
1228-14	-49							X	
1228-15	-50							X	

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar Ruvalcaba
Tel: (310) 951-9485
Fax:

Sampler's Signature: S.F./J.R.
Project Name/ID: McKinley ES
SM SD - 17 - 7280

Relinquished by:	Received by:	Date & Time: 12/29/17
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 O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: _____

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	EPA 8082	Misc./PO#	COMMENTS
								Analysis Required		
1228-16	171229-51	12/28/17		Soil	X40Z		Ice	X		
1228-17	-52							X		
1228-19	-53							X		
1228-21	-54							X		
1228-22	-55							X		
1228-23	-56							X		
1228-24	-57							X		
1228-25	-58							X		
1228-26	-59							X		
1228-27	-60							X		
1228-28	-61							X		
1228-29	-62							X		
1228-30	-63							X		
1228-31	-64							X		
1228-32	-65							X		

Company Name: Alfa Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar Ruvalcaba
Tel: (310) 951-9485
Fax:

Sampler's Signature: S.F. / J.R.
Project Name/ID:

Relinquished by: [signature]
Relinquished by:
Relinquished by:

Received by: [signature]
Received by:
Received by:

Date & Time: 12/27/17
Date & Time:
Date & Time:

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

CHAIN OF CUSTODY RECORD

Date:

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:

RUSH

Misc./PO#

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
1228-33	171229-66	12/28/17		Blk	1		ICE	X	
1228-34	-67				x4oz			X	
1228-35	-68							X	
1228-36	-69							X	
1228-37	-70							X	
1228-38	-71							X	
1229-18	-52A							X	

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar Rualaba
Tel: (310) 951-9485
Fax:

Sampler's Signature: SF/JR
Project Name/ID:

Relinquished by: Scott
Relinquished by:
Relinquished by:

Received by: Mat
Received by:
Received by:

Date & Time: 12/29/17
Date & Time:
Date & Time:

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

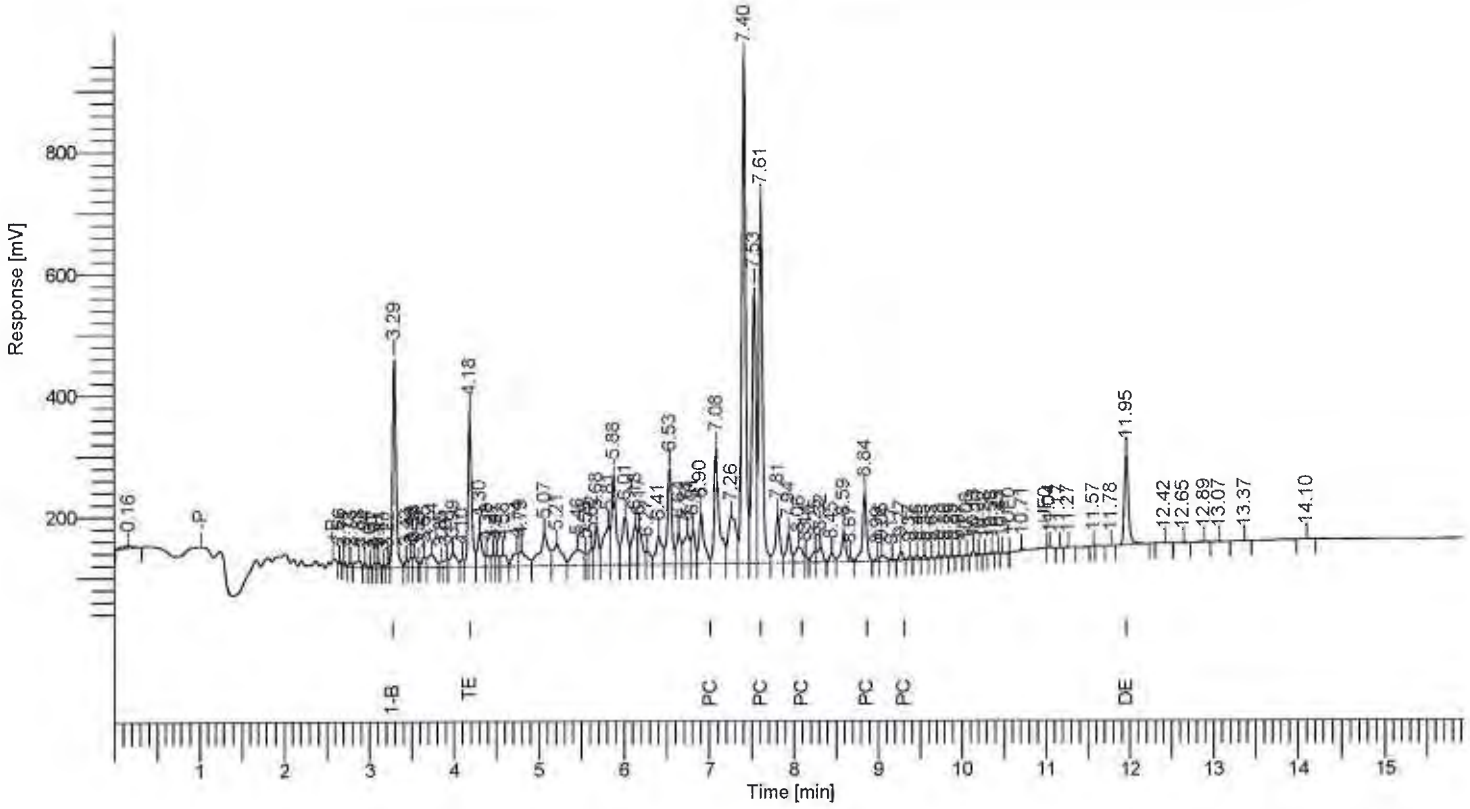
CHAIN OF CUSTODY RECORD

Date:

WHITE WITH SAMPLE • YELLOW TO CLIENT

Software Version : 6.3.2.0646		Date	: 1/2/2018 2:01:22 PM
Sample Name : 171229-38 0.2/2		Data Acquisition Time	: 1/2/2018 1:37:53 PM
Instrument Name : GC-J		Channel	: B
Rack/Vial : 0/6		Operator	: GC
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 4			

Result File : D:\GC DATA\GC-J\J02018\J1801\J180102\B008.rst
Sequence File : D:\GC DATA\GC-J\J02018\J1801\J180102\J180102.seq

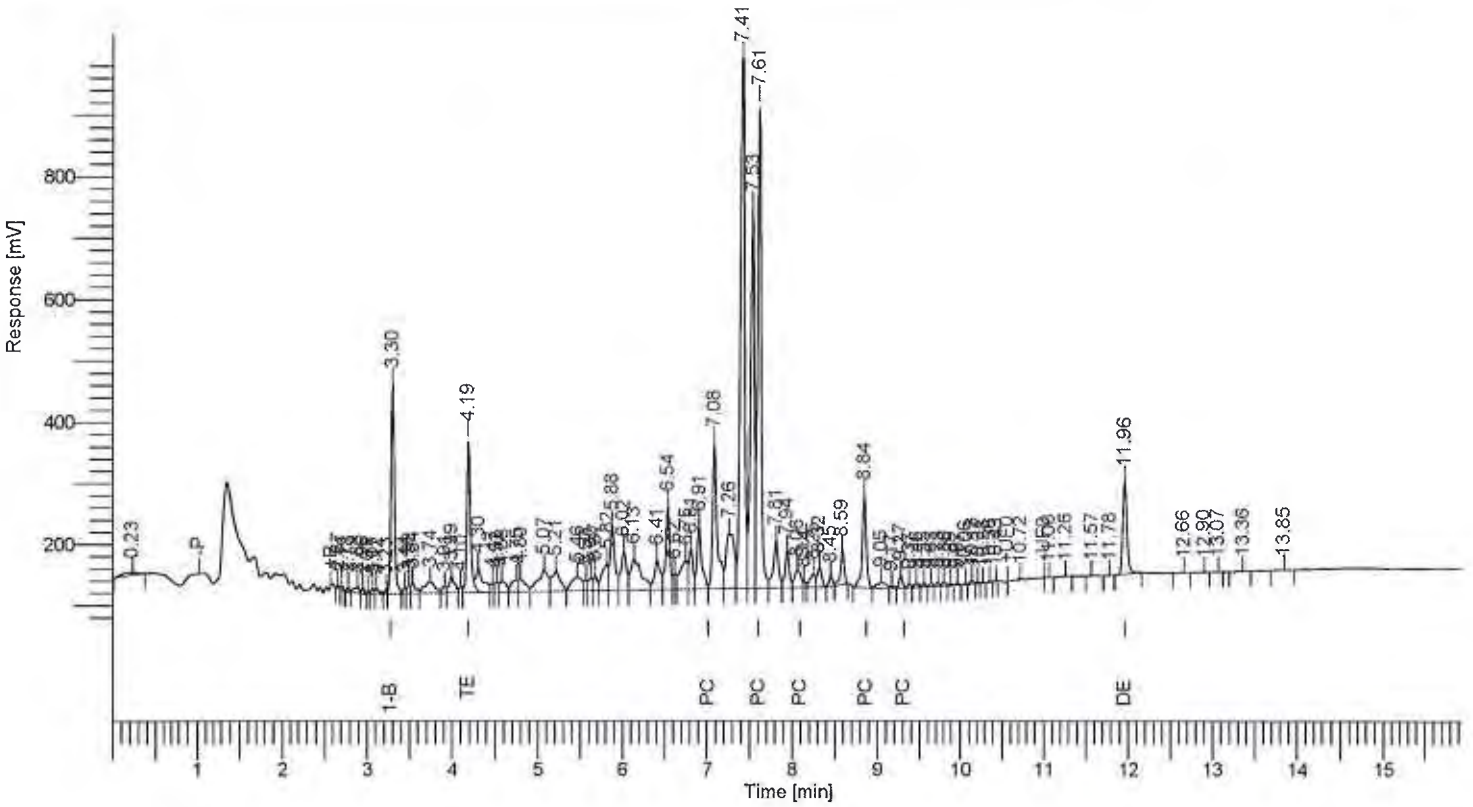


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
12	1-Bromo-2-Nitrobenzene	3.29	972693.49	338354.94	----------
23	Tetra chloro-meta-xylene	4.18	726108.02	246225.81	105.054
	PCB (1016+1260)	7.61	3192766.90	924521.52	1.122
89	Decachlorobiphenyl	11.95	530576.32	148508.13	78.367
			5422144.73	1657610.41	184.542

Software Version : 6.3.2.0646		Date	: 1/2/2018 2:16:00 PM
Sample Name	: 171229-39 0.2/2	Data Acquisition Time	: 1/2/2018 1:58:48 PM
Instrument Name	: GC-J	Channel	: B
Rack/Vial	: 0/7	Operator	: GC
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 5		

Result File : D:\GC DATA\GC-J\J02018\J1801\J180102\B009.rst
Sequence File : D:\GC DATA\GC-J\J02018\J1801\J180102\J180102.seq

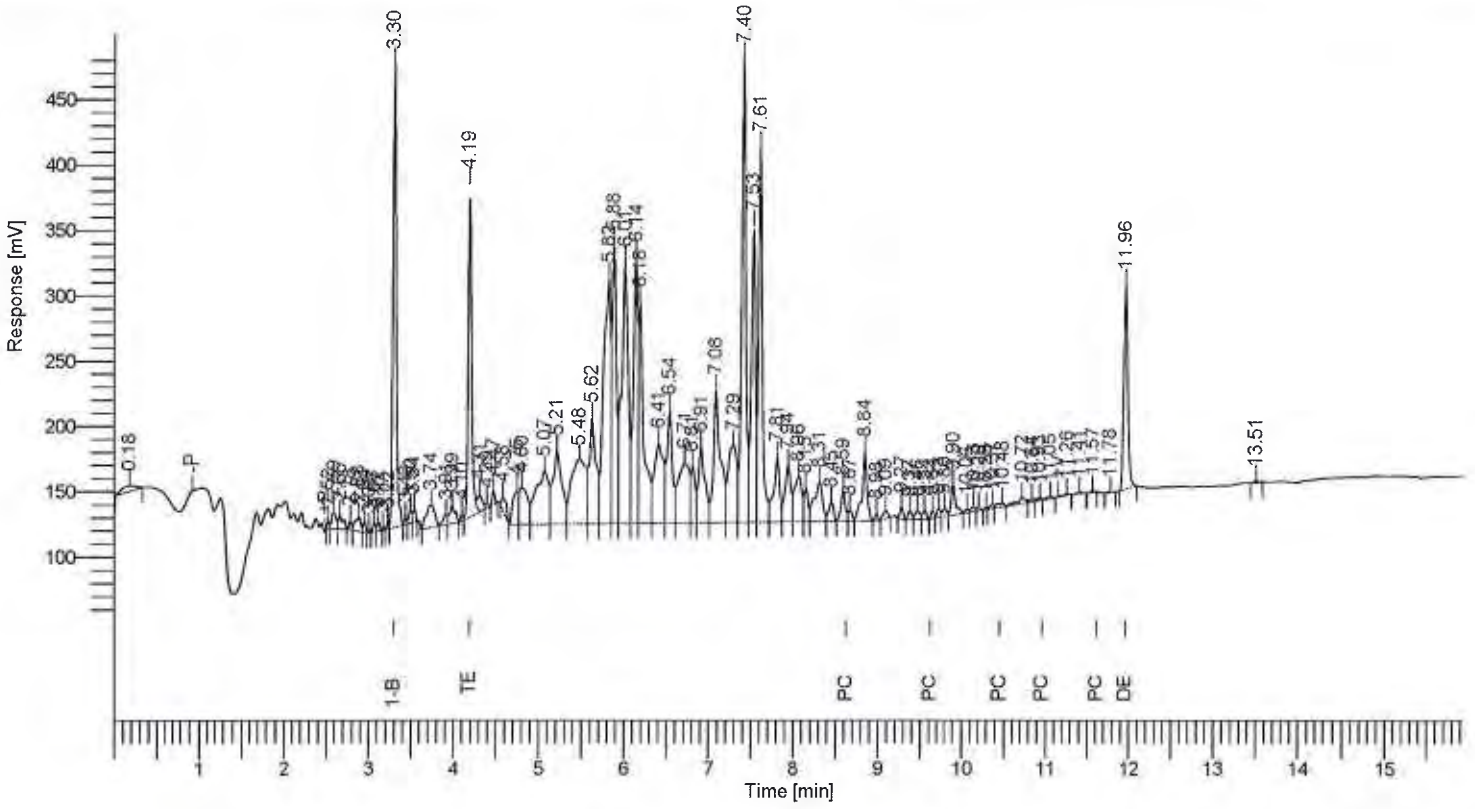


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
11	1-Bromo-2-Nitrobenzene	3.30	946668.43	335370.13	----------
19	Tetra chloro-meta-xylene	4.19	729522.20	243050.05	108.449
	PCB (1016+1260)	7.61	4016607.02	1199714.09	1.450
78	Decachlorobiphenyl	11.96	515555.45	149982.06	78.242
			6208353.09	1928116.33	188.141

Software Version	: 6.3.2.0646	Date	: 1/2/2018 2:52:00 PM
Sample Name	: 171229-40 0.2/2	Data Acquisition Time	: 1/2/2018 2:19:46 PM
Instrument Name	: GC-J	Channel	: B
Rack/Vial	: 0/8	Operator	: GC
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 6		

Result File : D:\GC DATA\GC-J\J02018\J1801\J180102\B010.rst
Sequence File : D:\GC DATA\GC-J\J02018\J1801\J180102\J180102.seq

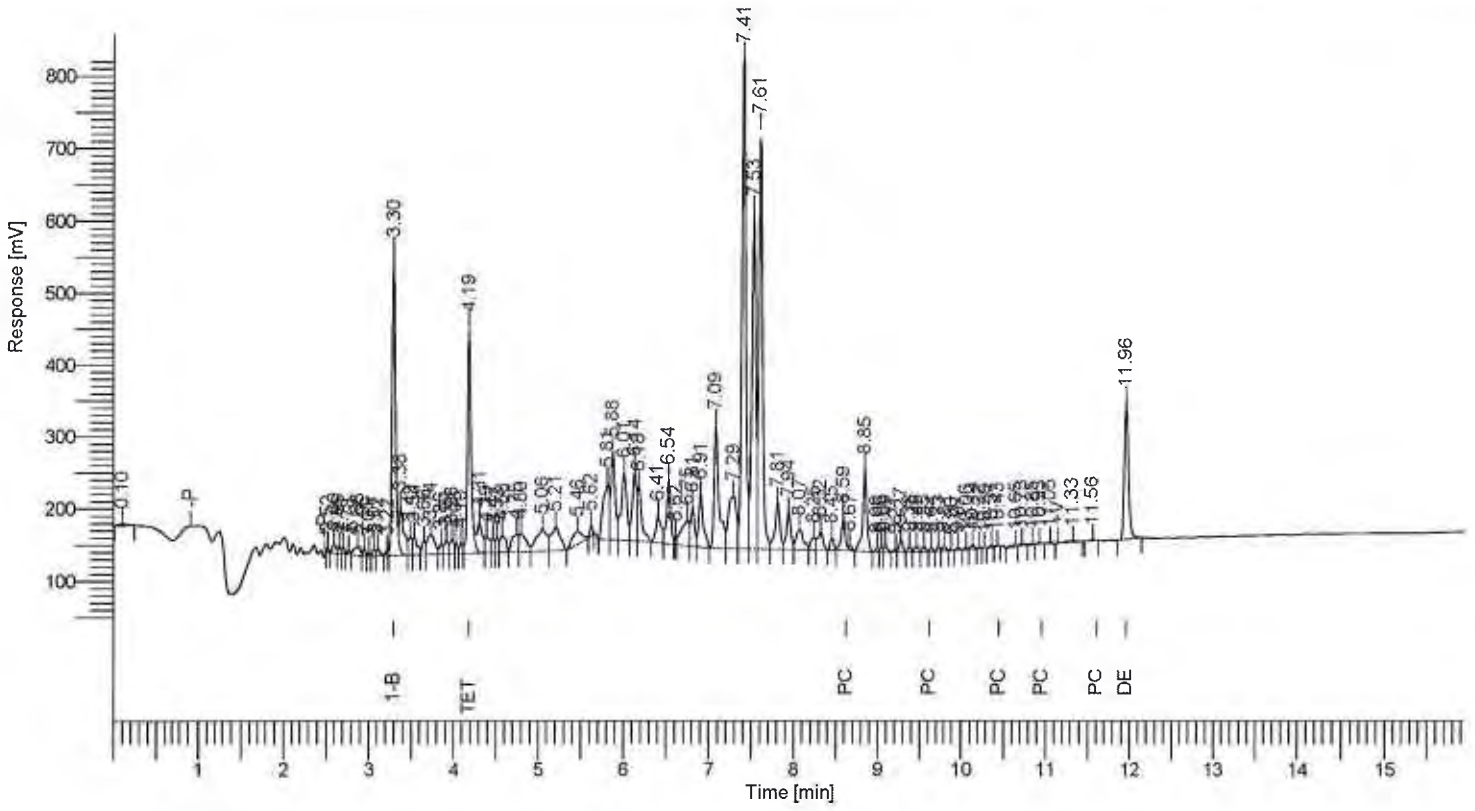


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
13	1-Bromo-2-Nitrobenzene	3.30	966378.16	345747.24	----------
21	Tetra chloro-meta-xylene	4.19	686660.61	241527.90	80.217
	PCB (1016+1260)	8.59	130973.45	34635.00	0.048
80	Decachlorobiphenyl	11.96	523965.80	154933.35	52.277
			2307978.02	776843.50	132.542

Software Version : 6.3.2.0646		Date	: 1/3/2018 9:43:46 AM
Sample Name : 171229-41 0.2/4 RE		Data Acquisition Time	: 1/3/2018 5:08:16 AM
Instrument Name : GC-J		Channel	: B
Rack/Vial : 0/49		Operator	: GC
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 48			

Result File : D:\GC DATA\GC-J\J02018\J1801\J180102\B052.rst
Sequence File : D:\GC DATA\GC-J\J02018\J1801\J180102\J180102.seq

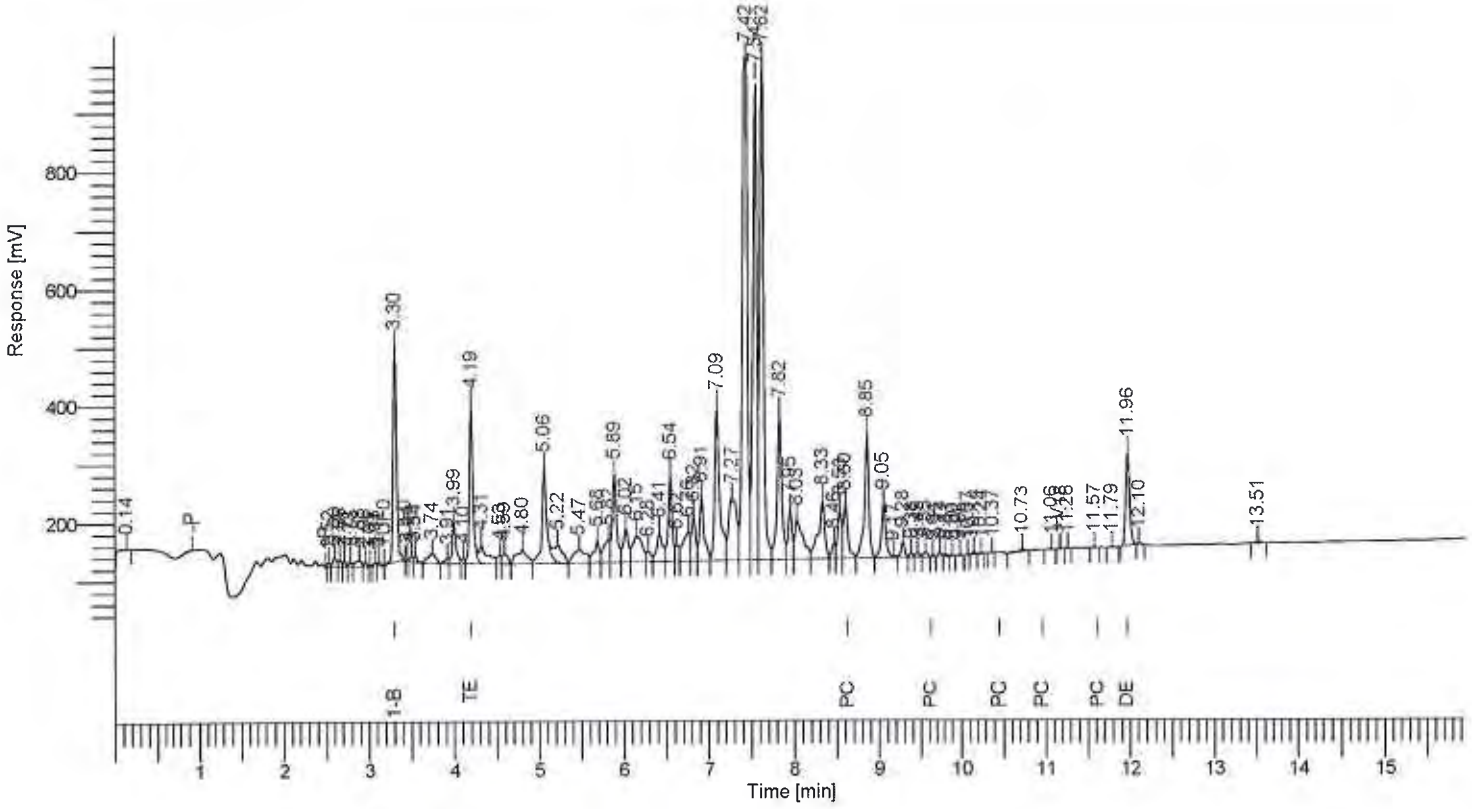


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
13	1-Bromo-2-Nitrobenzene	3.30	1148939.66	409000.25	----------
24	Tetra chloro-meta-xylene	4.19	906202.62	302095.31	89.043
	PCB (1016+1260)	9.64	39495.75	13915.96	0.012
87	Decachlorobiphenyl	11.96	655054.31	188370.35	54.971
			2749692.34	913381.87	144.027

Software Version : 6.3.2.0646		Date	: 1/2/2018 3:40:05 PM
Sample Name : 171229-43 0.2/2		Data Acquisition Time	: 1/2/2018 3:22:44 PM
Instrument Name : GC-J		Channel	: B
Rack/Vial : 0/11		Operator	: GC
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 9			

Result File : D:\GC DATA\GC-J\J02018\J1801\J180102\B013.rst
Sequence File : D:\GC DATA\GC-J\J02018\J1801\J180102\J180102.seq

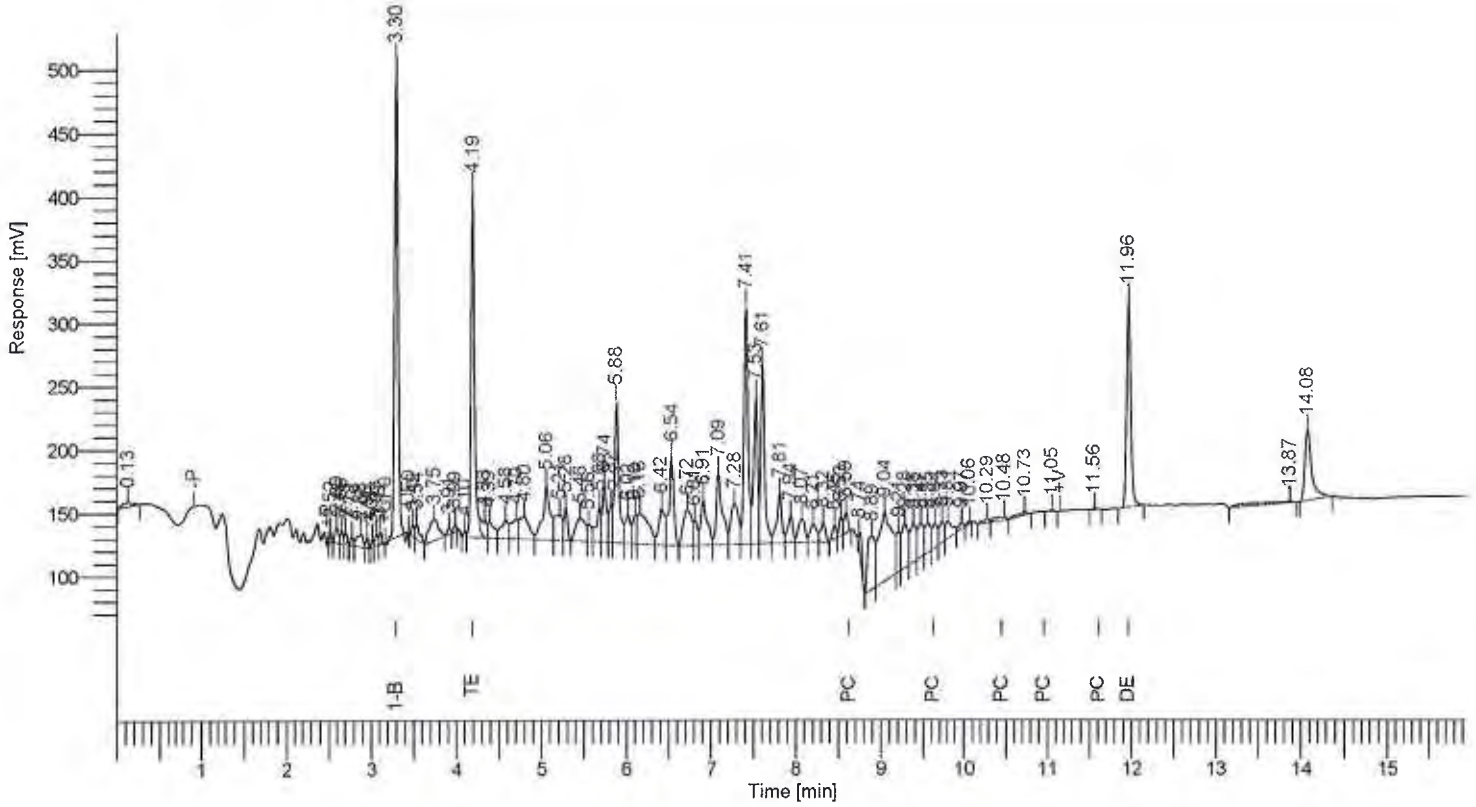


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
12	1-Bromo-2-Nitrobenzene	3.30	993493.03	373191.91	----------
20	Tetra chloro-meta-xylene	4.19	769810.92	263942.30	87.477
	PCB (1016+1260)	8.60	361175.85	96781.92	0.128
74	Decachlorobiphenyl	11.96	534626.30	157347.19	51.885
			2659106.09	891263.32	139.490

Software Version : 6.3.2.0646		Date	: 1/3/2018 9:26:38 AM
Sample Name : 171229-45 0.2/2		Data Acquisition Time	: 1/2/2018 4:04:49 PM
Instrument Name : GC-J		Channel	: B
Rack/Vial : 0/13		Operator	: GC
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 11			

Result File : D:\GC DATA\GC-J\J02018\J1801\J180102\B015.rst
Sequence File : D:\GC DATA\GC-J\J02018\J1801\J180102\J180102.seq

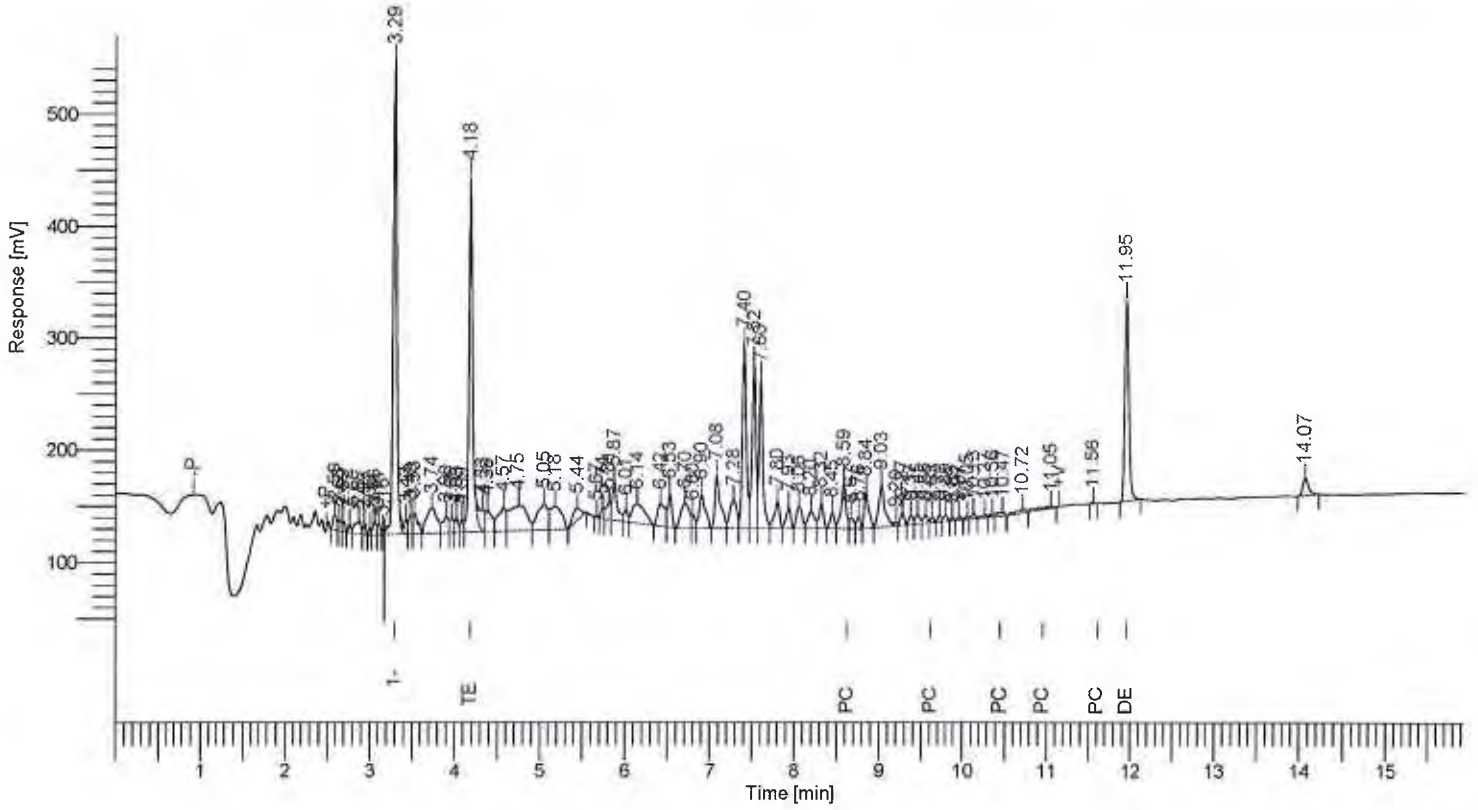


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
12	1-Bromo-2-Nitrobenzene	3.30	995222.23	378630.82	----------
19	Tetra chloro-meta-xylene	4.19	762841.13	265205.07	86.534
	PCB (1016+1260)	9.64	180121.24	40220.41	0.064
73	Decachlorobiphenyl	11.96	558657.84	163161.59	54.123
			2496842.44	847217.89	140.721

Software Version : 6.3.2.0646		Date	: 1/3/2018 9:28:24 AM
Sample Name : 171229-48 0.2/2		Data Acquisition Time	: 1/2/2018 5:29:08 PM
Instrument Name : GC-J		Channel	: B
Rack/Vial : 0/17		Operator	: GC
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 15			

Result File : D:\GC DATA\GC-J\J02018\J1801\J180102\B019.rst
Sequence File : D:\GC DATA\GC-J\J02018\J1801\J180102\J180102.seq

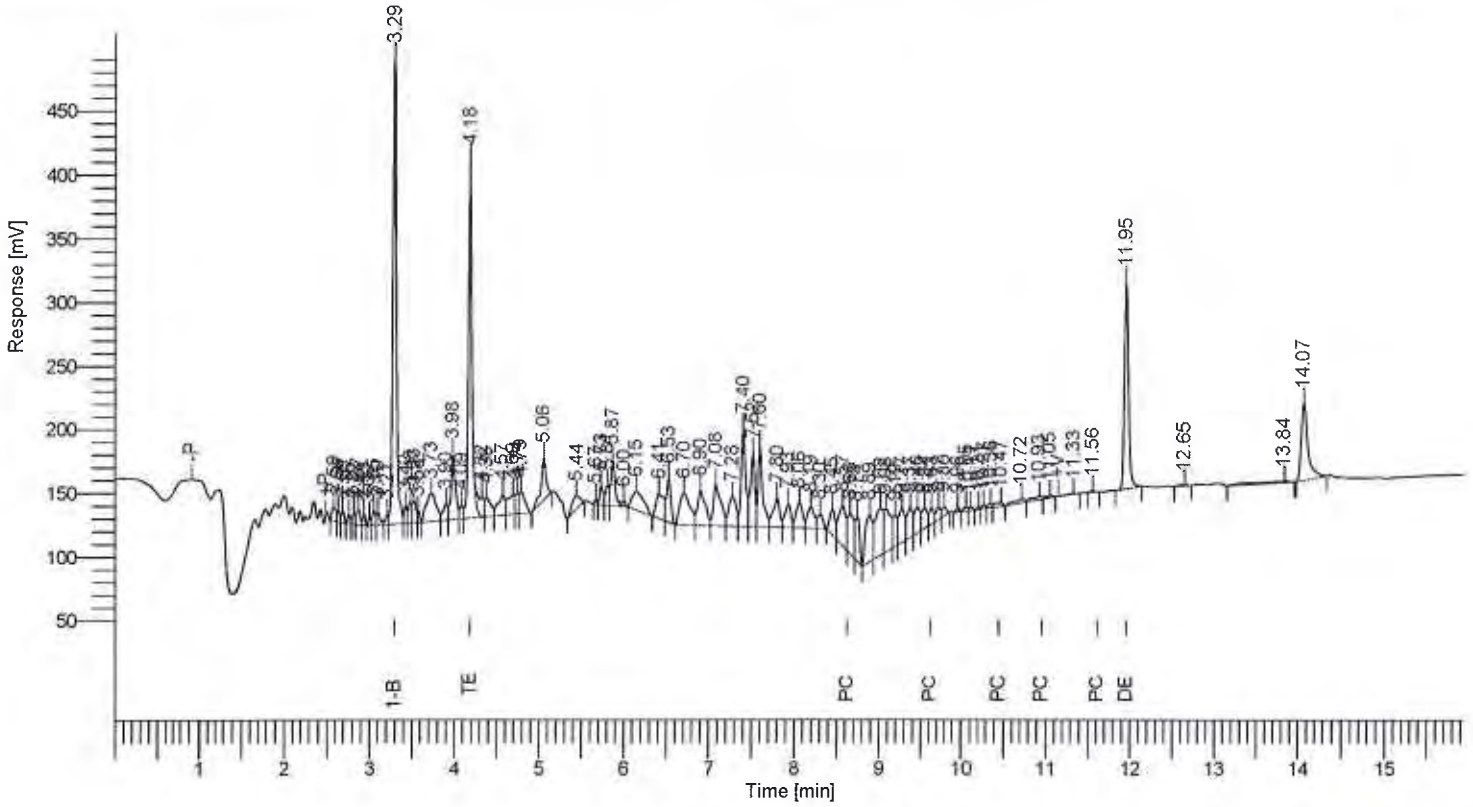


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
11	1-Bromo-2-Nitrobenzene	3.29	1191404.22	414484.90	----------
20	Tetra chloro-meta-xylene	4.18	917932.40	305203.75	86.981
	PCB (1016+1260)	8.59	231624.34	51985.32	0.068
73	Decachlorobiphenyl	11.95	619866.65	178681.53	50.164
			2960827.61	950355.50	137.214

Software Version : 6.3.2.0646		Date	: 1/3/2018 9:29:21 AM
Sample Name : 171229-50 0.2/2		Data Acquisition Time	: 1/2/2018 6:11:22 PM
Instrument Name : GC-J		Channel	: B
Rack/Vial : 0/19		Operator	: GC
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 17			

Result File : D:\GC DATA\GC-J\J02018\J1801\J180102\B021.rst
Sequence File : D:\GC DATA\GC-J\J02018\J1801\J180102\J180102.seq

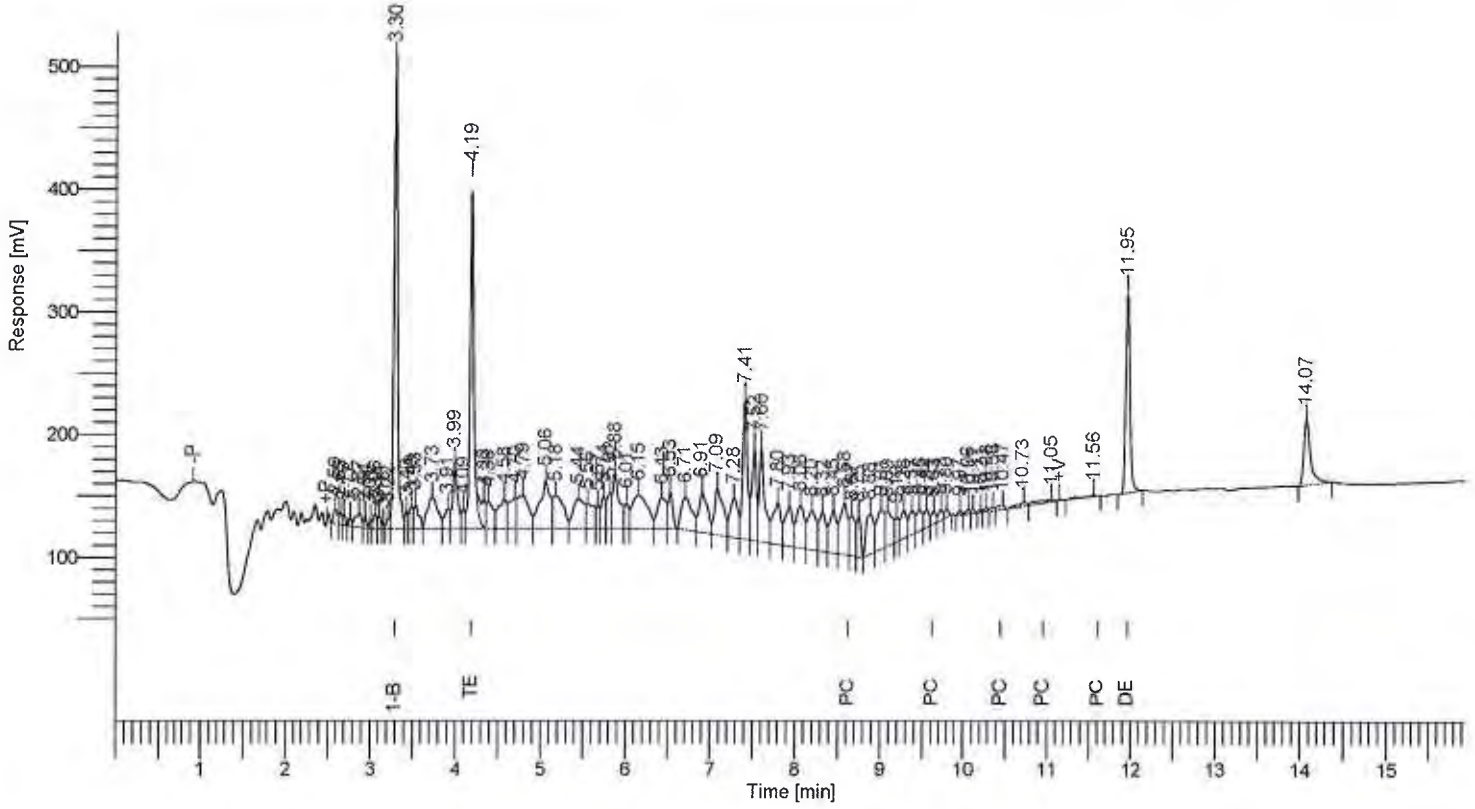


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
12	1-Bromo-2-Nitrobenzene	3.29	1045794.16	362820.60	----------
21	Tetra chloro-meta-xylene	4.18	789251.30	269837.61	85.201
	PCB (1016+1260)	8.66	255645.80	49959.47	0.086
77	Decachlorobiphenyl	11.95	553298.19	160616.54	51.012
			2643989.45	843234.21	136.298

Software Version : 6.3.2.0646		Date	: 1/3/2018 9:29:51 AM
Sample Name : 171229-51 0.2/2		Data Acquisition Time	: 1/2/2018 6:32:26 PM
Instrument Name : GC-J		Channel	: B
Rack/Vial : 0/20		Operator	: GC
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 18			

Result File : D:\GC DATA\GC-J\J02018\J1801\J180102\B022.rst
Sequence File : D:\GC DATA\GC-J\J02018\J1801\J180102\J180102.seq

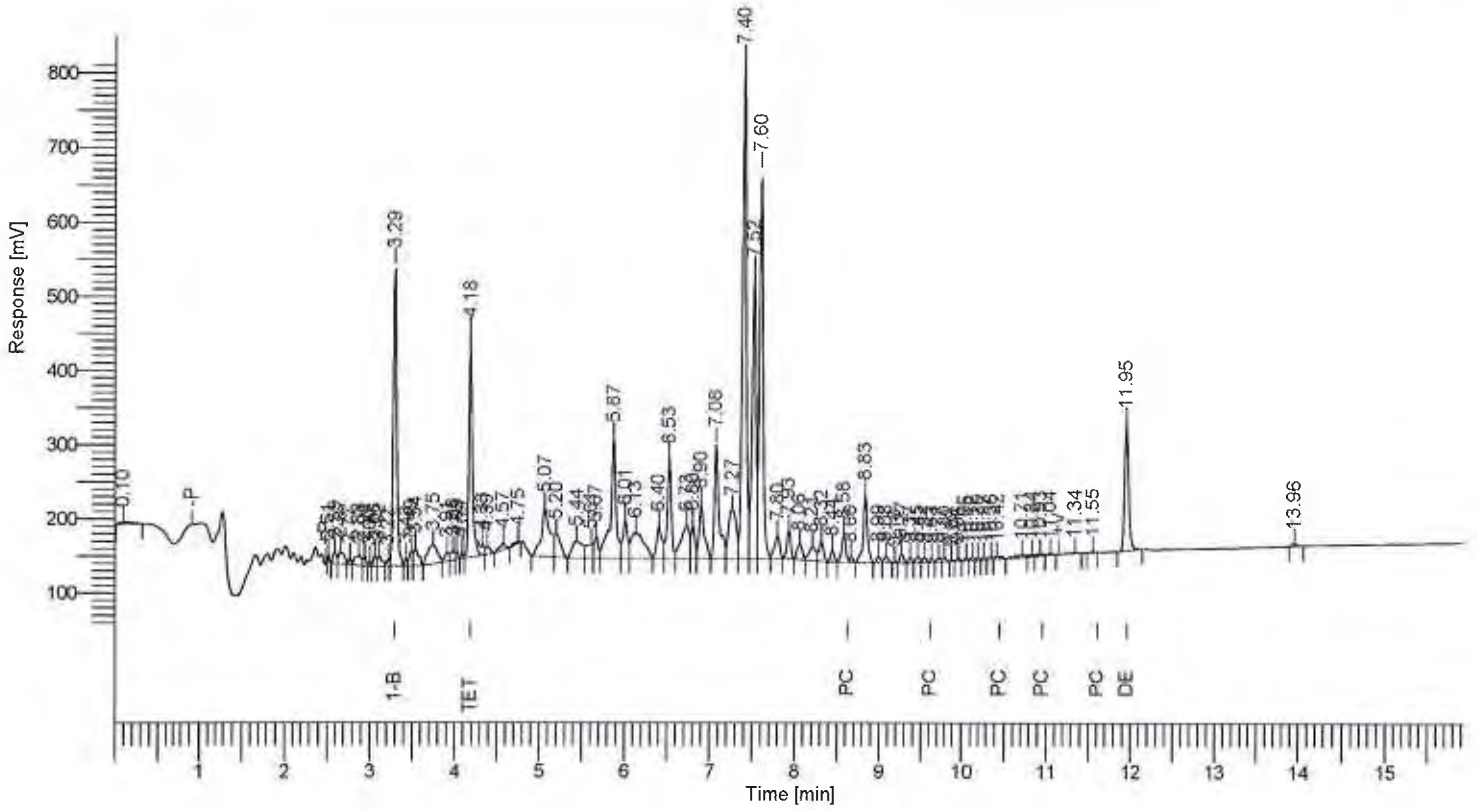


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
12	1-Bromo-2-Nitrobenzene	3.30	1077616.49	372848.06	----------
20	Tetra chloro-meta-xylene	4.19	868999.33	272695.31	91.039
	PCB (1016+1260)	8.67	270268.77	50010.03	0.088
75	Decachlorobiphenyl	11.95	562314.43	161980.92	50.312
			2779199.02	857534.32	141.440

Software Version : 6.3.2.0646		Date	: 1/3/2018 9:45:20 AM
Sample Name : 171229-52 0.1/20 RE		Data Acquisition Time	: 1/3/2018 8:47:31 AM
Instrument Name : GC-J		Channel	: B
Rack/Vial : 0/51		Operator	: tcprocess
Sample Amount : 1.000000		Dilution Factor	: 1.000000
Cycle : 2			

Result File : D:\GC DATA\GC-J\J02018\J1801\J180102\B056.rst
Sequence File : D:\GC DATA\GC-J\J02018\J1801\J180102\J180102.seq

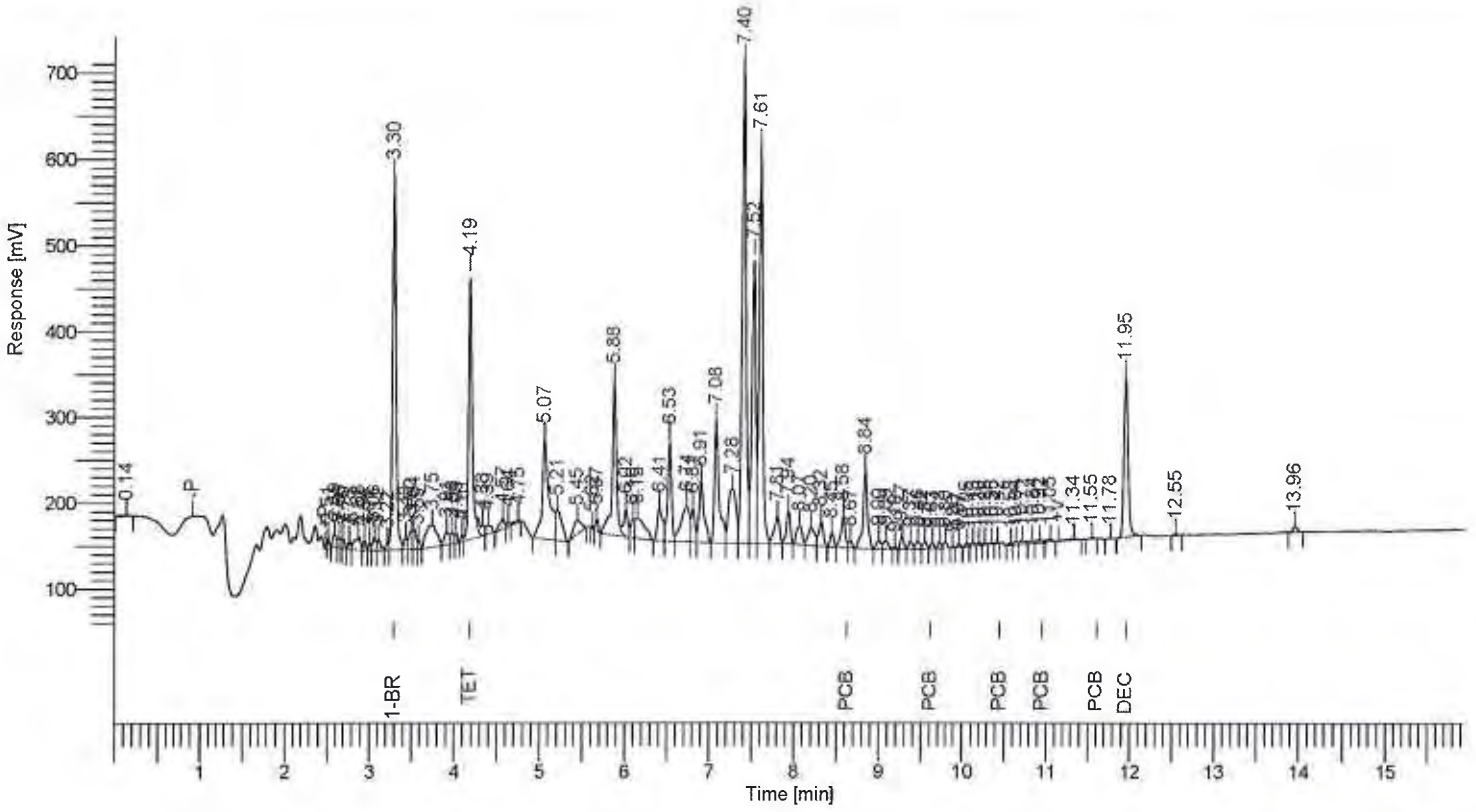


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
12	1-Bromo-2-Nitrobenzene	3.29	1126352.73	394806.21	----------
21	Tetra chloro-meta-xylene	4.18	839561.57	291013.27	84.150
	PCB (1016+1260)	8.58	184434.90	50343.18	0.058
77	Decachlorobiphenyl	11.95	585883.84	170018.51	50.152
			2736233.04	906181.17	134.360

Software Version : 6.3.2.0646		Date	: 1/3/2018 9:45:32 AM
Sample Name	: 171229-52A 0.2/40 RE	Data Acquisition Time	: 1/3/2018 9:08:34 AM
Instrument Name	: GC-J	Channel	: B
Rack/Vial	: 0/52	Operator	: tcprocess
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 3		

Result File : D:\GC DATA\GC-J\J02018\J1801\J180102\B057.rst
Sequence File : D:\GC DATA\GC-J\J02018\J1801\J180102\J180102.seq

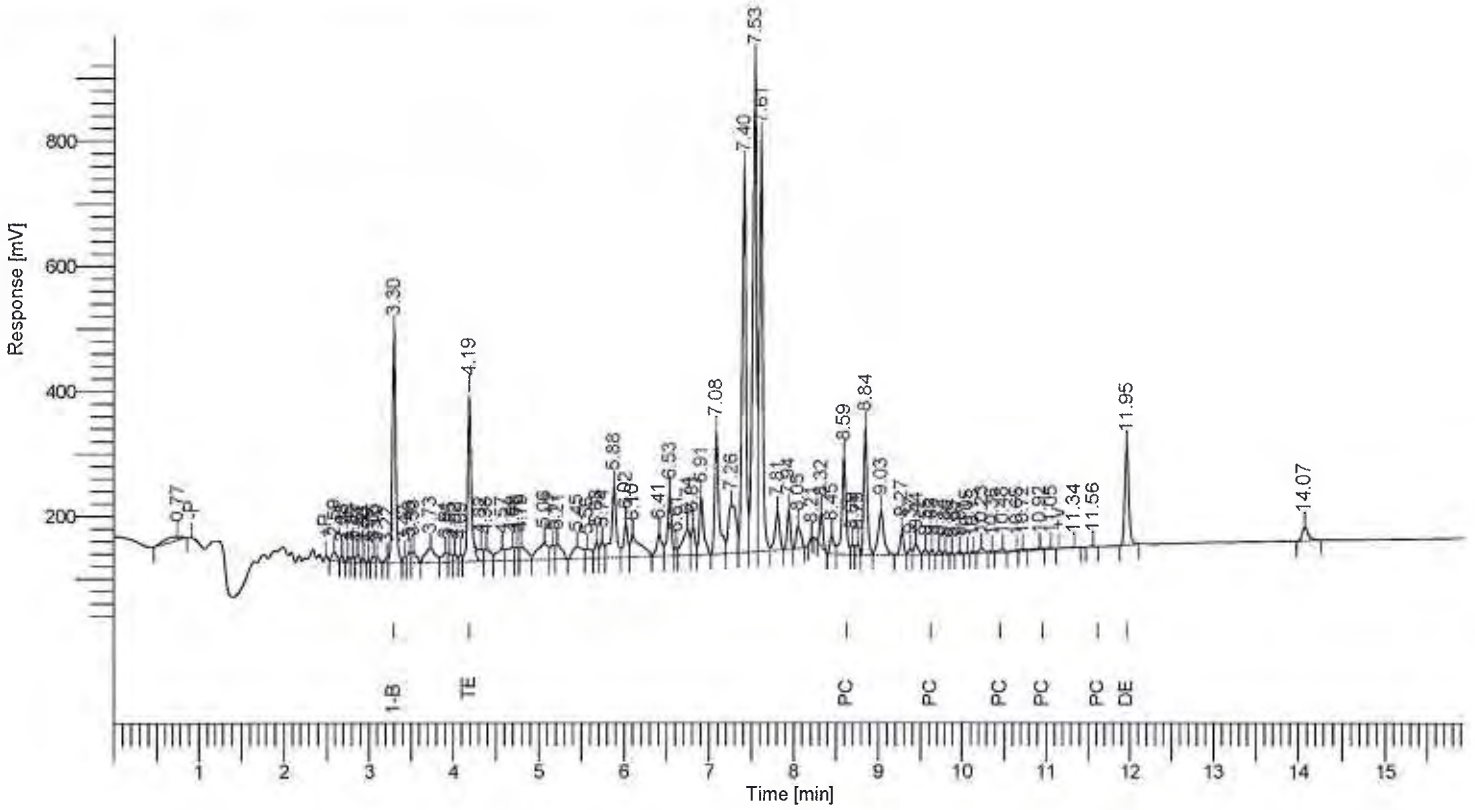


PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
13	1-Bromo-2-Nitrobenzene	3.30	1201143.71	424776.15	----------
23	Tetra chloro-meta-xylene	4.19	895491.87	298967.66	84.167
	PCB (1016+1260)	8.67	67634.48	20337.18	0.020
84	Decachlorobiphenyl	11.95	643406.43	185017.85	51.647
			2807676.49	929098.83	135.834

Software Version : 6.3.2.0646		Date	: 1/3/2018 9:36:34 AM
Sample Name	: 171229-55 0.2/2	Data Acquisition Time	: 1/2/2018 9:43:41 PM
Instrument Name	: GC-J	Channel	: B
Rack/Vial	: 0/28	Operator	: GC
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 27		

Result File : D:\GC DATA\GC-J\J02018\J1801\J180102\B031.rst
Sequence File : D:\GC DATA\GC-J\J02018\J1801\J180102\J180102.seq



PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
12	1-Bromo-2-Nitrobenzene	3.30	1006653.80	358601.56	----------
21	Tetra chloro-meta-xylene	4.19	788086.71	258979.07	88.383
	PCB (1016+1260)	8.59	606927.45	168712.36	0.212
80	Decachlorobiphenyl	11.95	536514.85	155676.01	51.387
			2938182.80	941969.00	139.983

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

Date: January 30, 2018

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: **McKinley ES**
Lab I.D.: **180129-6**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid sample, received by our laboratory on January 29, 2018, are attached. The sample was 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: **McKinley ES**

DATE SAMPLED: 01/26/18
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 01/29/18
DATE EXTRACTED: 01/29-30/18
DATE ANALYZED: 01/30/18
DATE REPORTED: 01/30/18

PCBs ANALYSIS
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
012618JR-01	180129-6	ND	ND	ND	ND	ND	2110***	ND	2110***	160
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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 1/30/2018

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 180130-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.092	**92%**	0.095	**95%**	**3%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.088	**88%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	180129-6					
Tetra-chloro-meta-xylene	50-150	123%	113%					
Decachlorobipneyl	50-150	75%	100%					

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

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

Turnaround Time
- O Same Day
- ⊗ 24 Hours
- O 48 Hours
- O 72 Hours
- O 1 Week (Standard)
- Other:

RUSH

EPA 6020 Soil/Ext extraction

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required									COMMENTS
012618JR-01	180129-6	1/26/18	1405	Bulk	1		ICE	X									
					4oz Jar												

Misc./PO#

Company Name: ALTA Environmental	Project Contact: Cesar.Rivalcaba@altaenvironmental.com	Sampler's Signature:
Address: 3777 Long Beach Blvd, Annex 1311dg	Tel:	Project Name/ID: McKinley ES
City/State/Zip: Long Beach CA 90807	Fax:	

Relinquished by: 1/26/18 1600	Received by: Therese Rizzari 1/29/18 0940	Date & Time: 1/29/18 0630	Instructions for Sample Storage After Analysis:
Relinquished by: Therese Rizzari 1/29/18 0940	Received by:	Date & Time: 1/29/2018 940 AM	O Dispose of O Return to Client O Store (30 Days)
Relinquished by:	Received by:	Date & Time:	O Other:

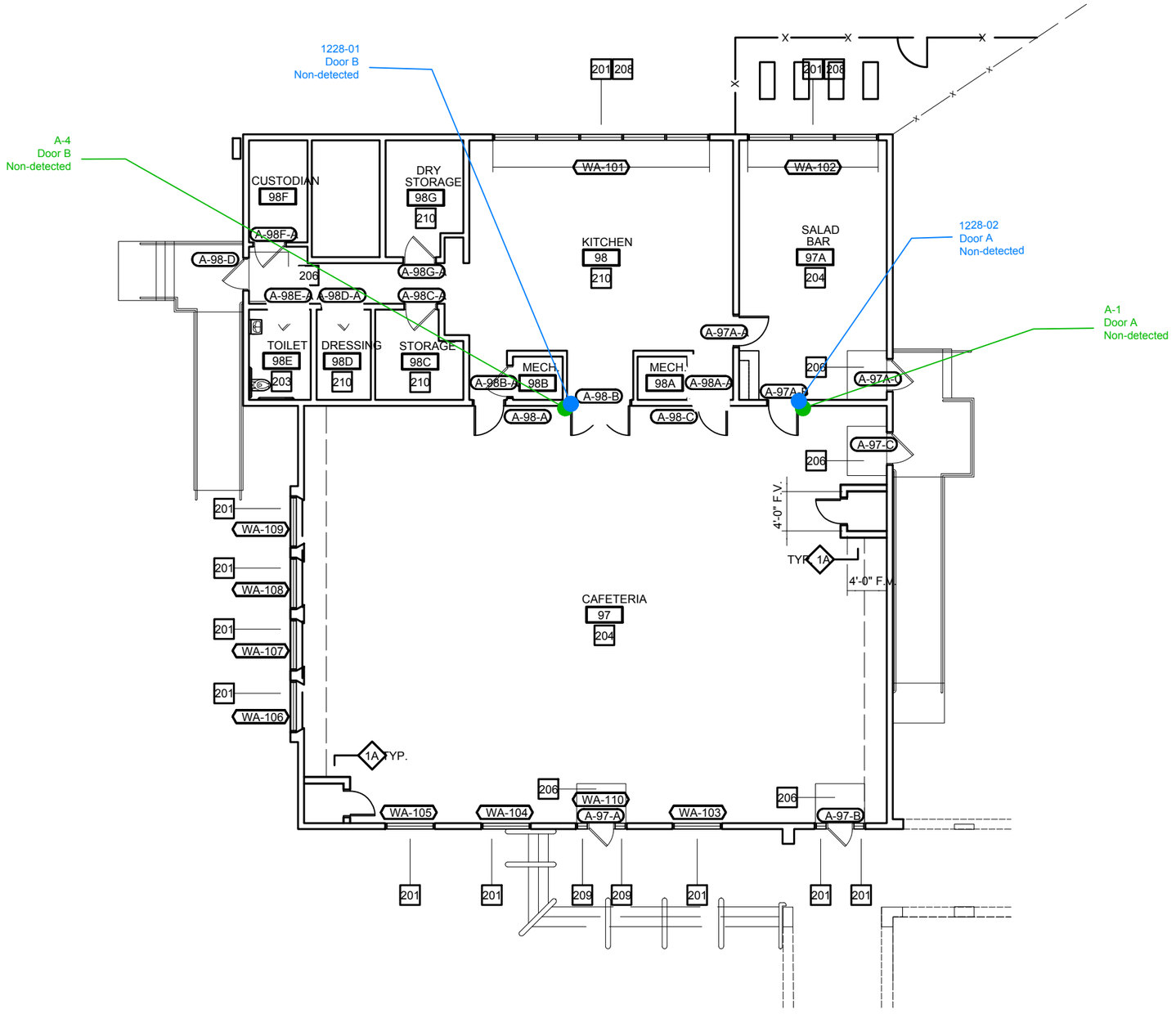
CHAIN OF CUSTODY RECORD

Date: _____

SUBMIT WITH SAMPLE (YELLOW COPY)

Appendix C

Sample Location Maps



LEGEND

- Delineation Samples
- Source Samples

Delineation and Source Bulk Sample Location Map - Building A

McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, California

N

ALTA ENVIRONMENTAL
3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
P: (562) 495-5777 ◆ F: (562) 495-5877 ◆ www.altaenviron.com

DATE: January 2018 | Project No.: SMSD-17-7280

1228-19 thru 1228-20
Window E
Non-detected

1204-04 thru 1204-06
Window D
Non-detected

1204-07 thru 1204-09
Window D
Non-detected

1204-23 thru 1204-25
Door B
Non-detected

1204-26 thru 1204-28
Door B
Non-detected

1205-07 thru 1205-09
Window E
Non-detected

1205-10 thru 1205-12
Window E
Non-detected

1228-14
Window D
Non-detected

1228-06
Door B
Non-detected

1228-15
Window D
Non-detected

1228-16
Window D
Non-detected

1228-08
Door B
Non-detected

1228-05
Door A
Non-detected

1228-17
Window E
Non-detected

1228-04
Door A
Non-detected

1205-13 thru 1205-18
Door A
Non-detected

1228-18
Window E
Non-detected

1228-12
Window B
Non-detected

1228-03
Door A
Non-detected

1228-07
Door B
Non-detected

1228-21
Window F
Non-detected

1228-22
Window F
Non-detected

1228-10
Window A
Non-detected

1228-23
Window F
Non-detected

1228-13
Window
Non-detected

1228-09
Window A
Non-detected

1204-10 thru 1204-12
Window F
Non-detected

1204-13 thru 1204-15
Window F
Non-detected

1204-16 thru 1204-19A
Window B
Non-detected

1204-20 thru 1204-22
Window B
Non-detected

1228-11
Window B
Non-detected

1204-29 thru 1204-33
Window F
Non-detected

1205-19 thru 1205-22
Window F
Non-detected

1205-04 thru 1205-06
Window A
Non-detected

1205-01
Window A
(1.83 mg/kg)

1205-02
Window A
(2.79 mg/kg)

1205-03
Window A
Non-detected

VESTIBULE 110A

VESTIBULE 108A

VESTIBULE 107A

CLASSROOM 110

CLASSROOM 109

WORKROOM 109A

CLASSROOM 108

CLASSROOM 107

LEGEND

- Delineation Samples
- Source Samples

Delineation and Source Bulk Sample Location Map - Building B (1st floor)

McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, California

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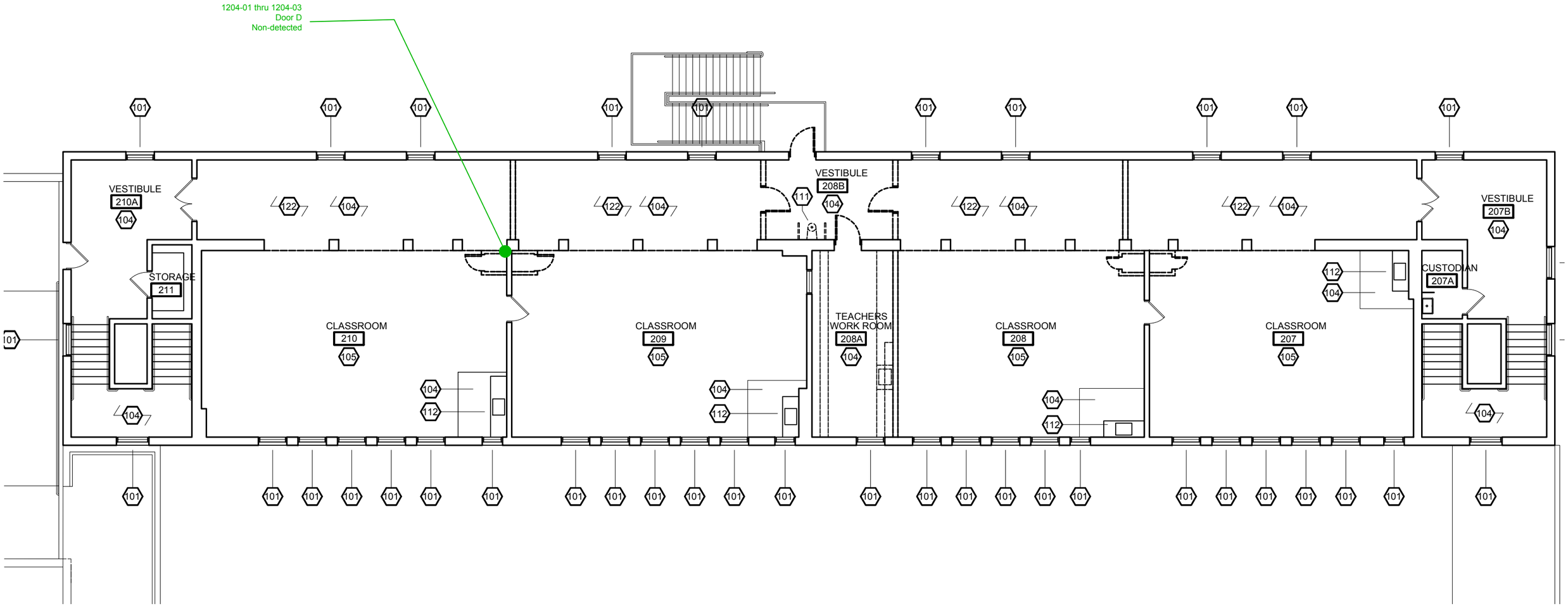
DATE: January 2018 | Project No.: SMSD-17-7280



LEGEND

- Delineation Samples
- Source Samples

Delineation and Source Bulk Sample Location Map - Building B (2nd floor)

McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, California

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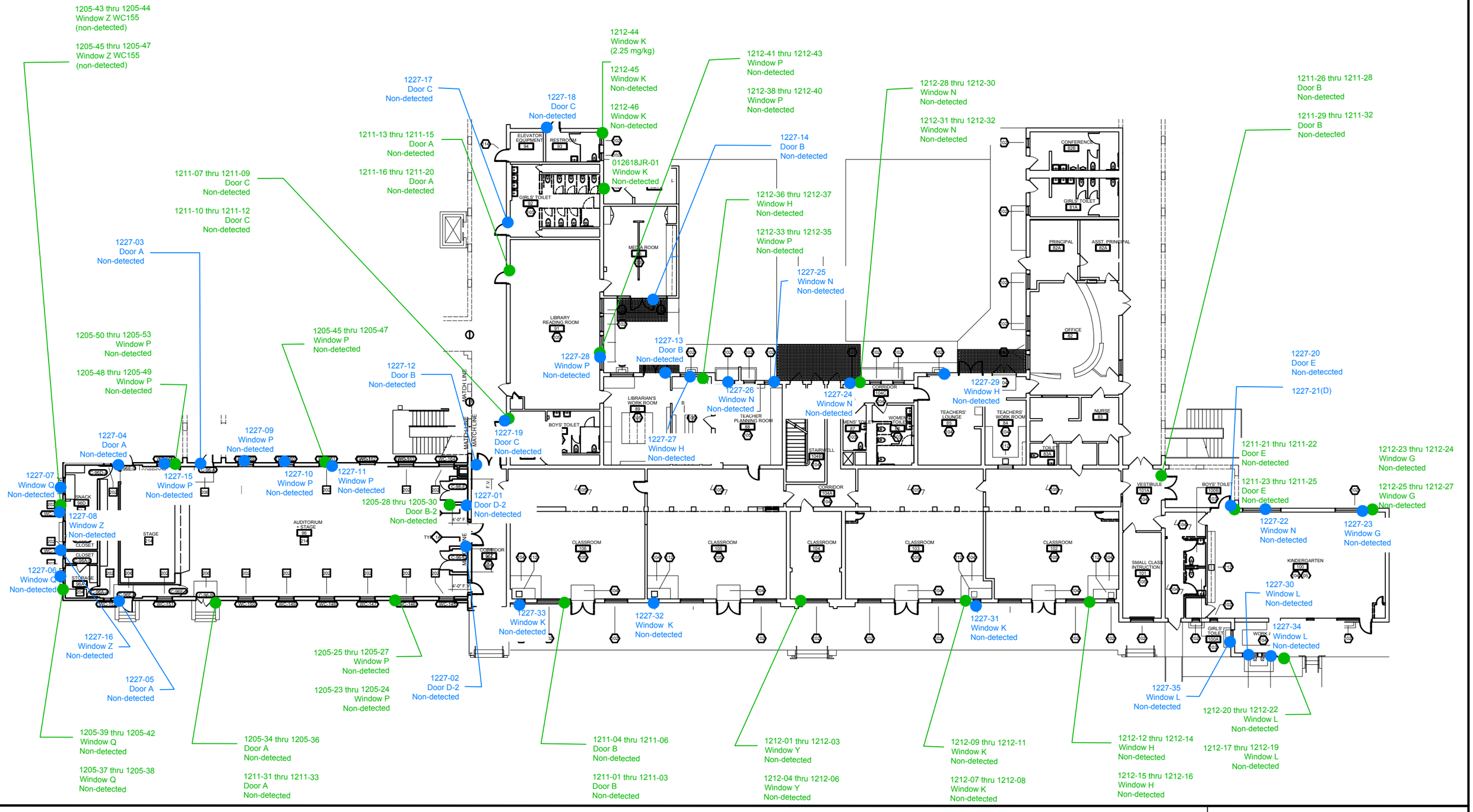
DATE: January 2018 | Project No.: SMSD-17-7280



LEGEND

- Delineation Samples
- Source Samples

Delineation and Source Bulk Sample Location Map - Building C (1st floor)

McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, California

N

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

DATE: January 2018 | Project No.: SMSD-17-7280

1212-47 thru 1212-49
Door A
Non-detected

4'-4 3/8"
F.V.

57'-9 19/32"
FIELD VERIFY

1'-0"

37'-9 1/4"
FIELD VERIFY

WC-201 WC-202 WC-203 WC-204 WC-205 WC-206 WC-207 WC-208 WC-209 WC-210 WC-211 WC-212 WC-213 WC-214

WC-215 WC-216 WC-217 WC-218 WC-219 WC-220 WC-221 WC-222 WC-223 WC-224 WC-225 WC-226 WC-227 WC-228 WC-229 WC-230 WC-231 WC-232 WC-233 WC-234 WC-235 WC-236 WC-237 WC-238 WC-239 WC-240 WC-241 WC-242 WC-243 WC-244

C-200B-B C-201-A C-201-B C-202-A C-202-B C-202-C C-203-A C-203-B C-203A-A C-204-A C-204-B C-204-C C-205-A C-205-B C-206-A C-206-B C-206A-A C-206B-A C-206B-B C-200A-A

READING ROOM 204 205

ROOF BELOW

ROOF BELOW

CLASSROOM 201 205

STAIRWELL 203B 210

CORRIDOR 206B 210

CORRIDOR 200B 210

STORAGE 206A 204

STORAGE 200A 204

CLASSROOM 206 205

CLASSROOM 205 205

TEACHERS' WORK ROOM 203A 204

CLASSROOM 203 205

OFFICE 202 205

218 TYP.

219 TYP.

1A TYP.

3'-0" F.V.

3'-6" F.V.

3'-8" F.V.

3'-11" F.V.

8'-3 1/2"
FIELD VERIFY

1'-6 1/2"
F.V.

6'-11 1/2" F.V.

2'-11" F.V.

4'-7" F.V.

7'-6 1/2" F.V.

2'-9 1/4" F.V.

7'-4 1/4" F.V.

4'-7 3/4" F.V.

3'-7 3/4" F.V.

3'-8" F.V.

LEGEND

- Delineation Samples
- Source Samples

Delineation and Source Bulk Sample Location Map - Building C (2nd floor)

McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, California

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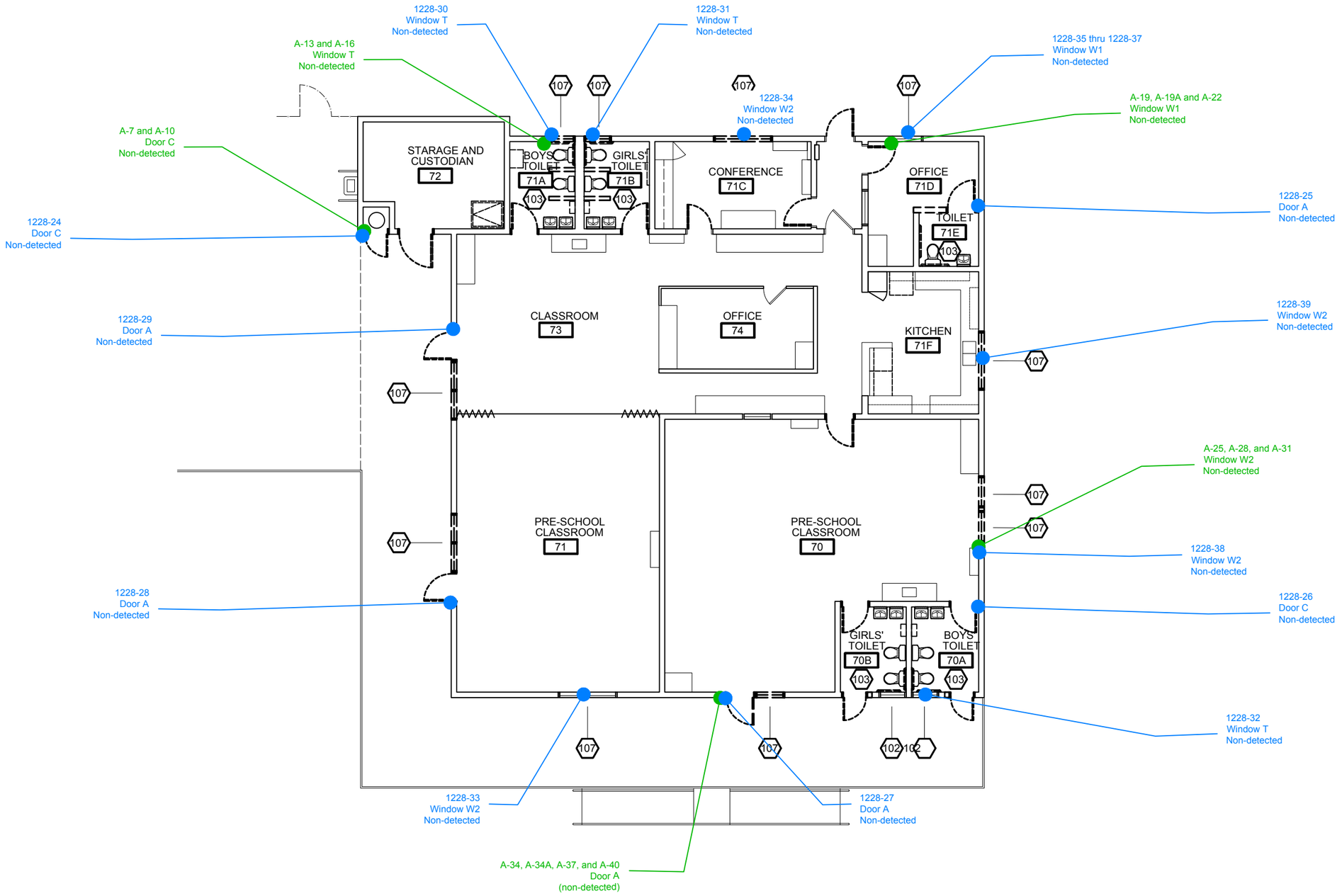
DATE: January 2018 | Project No.: SMSD-17-7280



LEGEND

- Delineation Samples
- Source Samples

Delineation and Source Bulk Sample Location Map - Building D

McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, California

N

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

DATE: January 2018 | Project No.: SMSD-17-7280

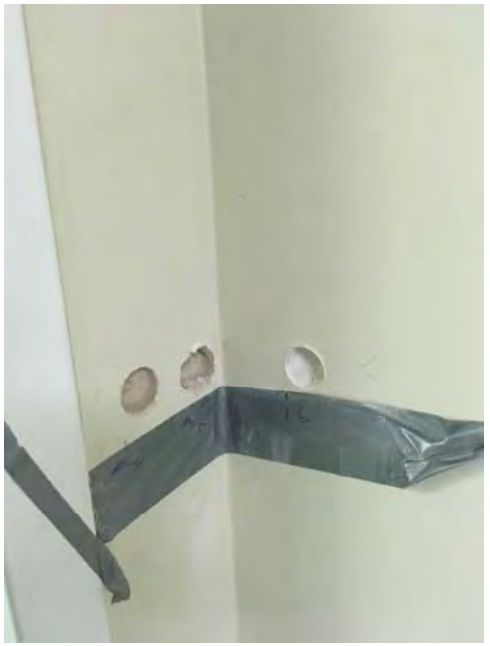
Appendix D

Photographs

Mckinely Elementary School – Building A

A-1 thru A-3

A-4 thru A6



Mckinely Elementary School – Building D

A-7 thru A-9

A-10 thru A-12

Mckinely Elementary School – Building D

A-13 thru A-15

A-16 thru A-18

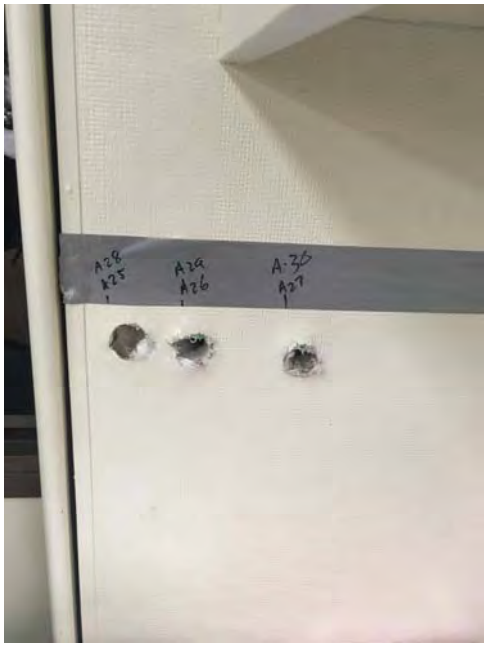
Mckinely Elementary School – Building D

A-19 thru A-21

A-22 thru A-24

Mckinely Elementary School – Building D

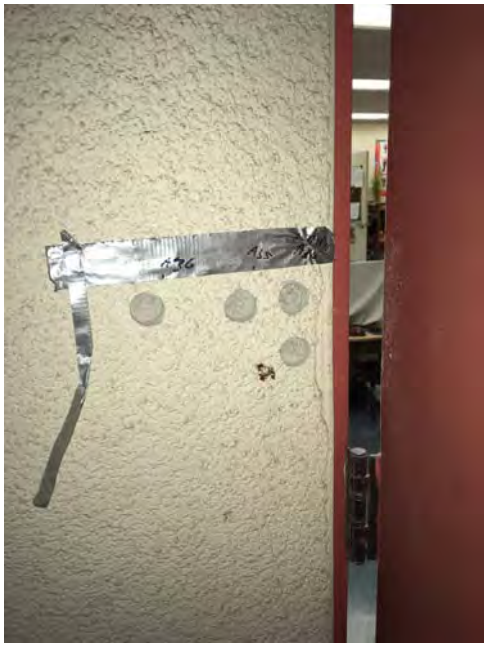
A-25 thru A-30



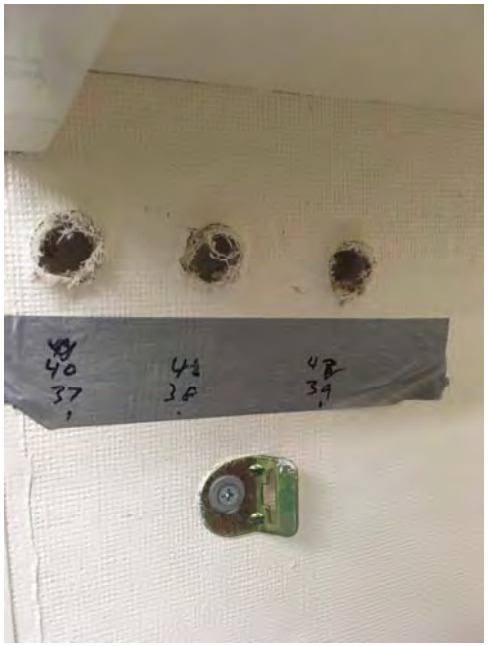
A-31 thru A-33

Mckinely Elementary School – Building D

A-34 thru A-36

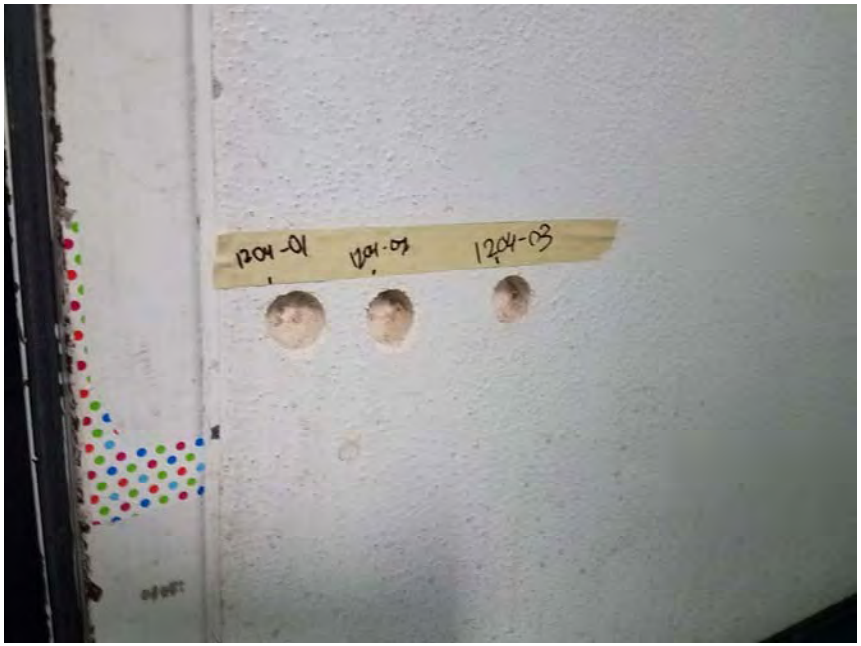


A-37 thru A-42

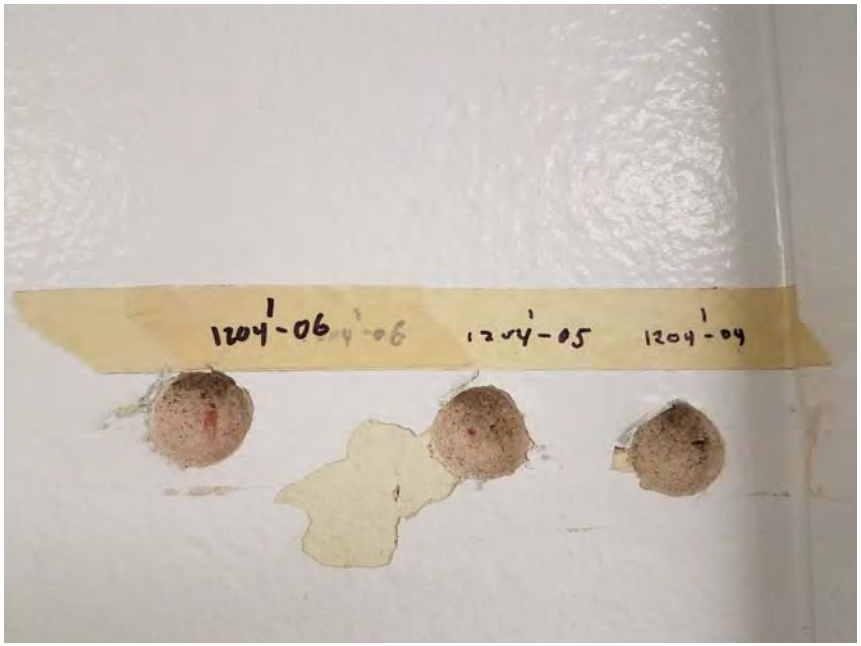


Mckinely Elementary School – Building B

1204-01 thru 1204-03

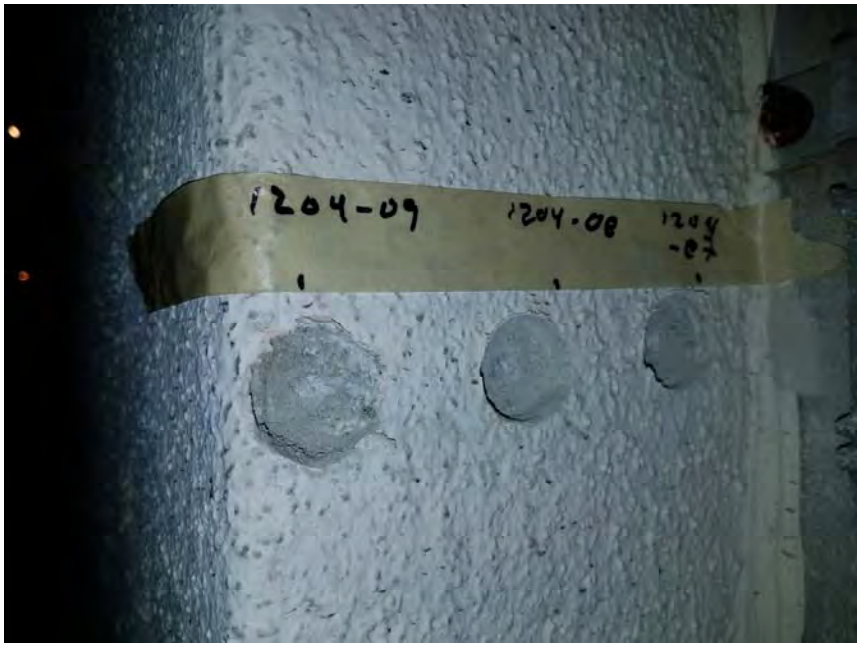


1204-04 thru 1204-06

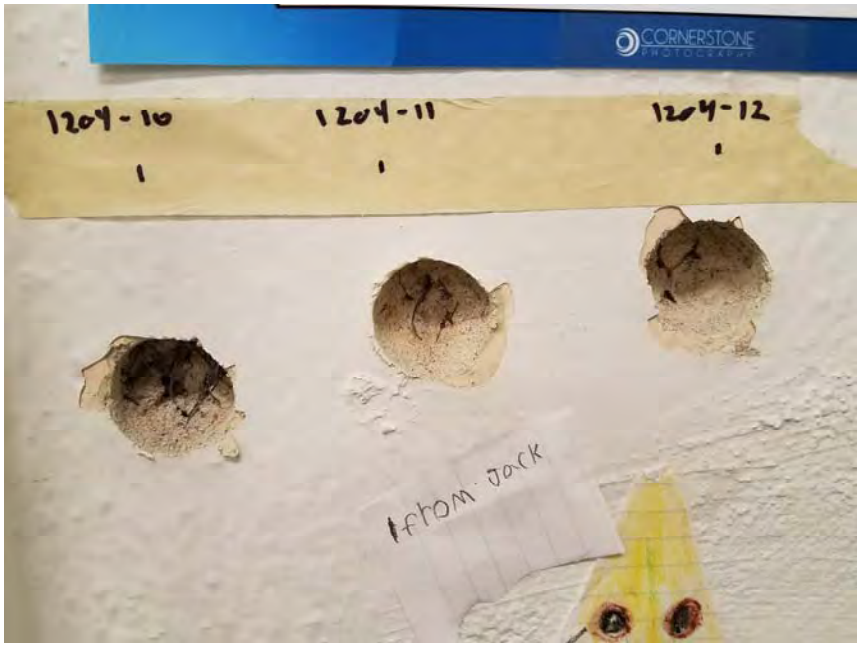


Mckinely Elementary School – Building B

1204-07 thru 1204-09



1204-10 thru 1204-12



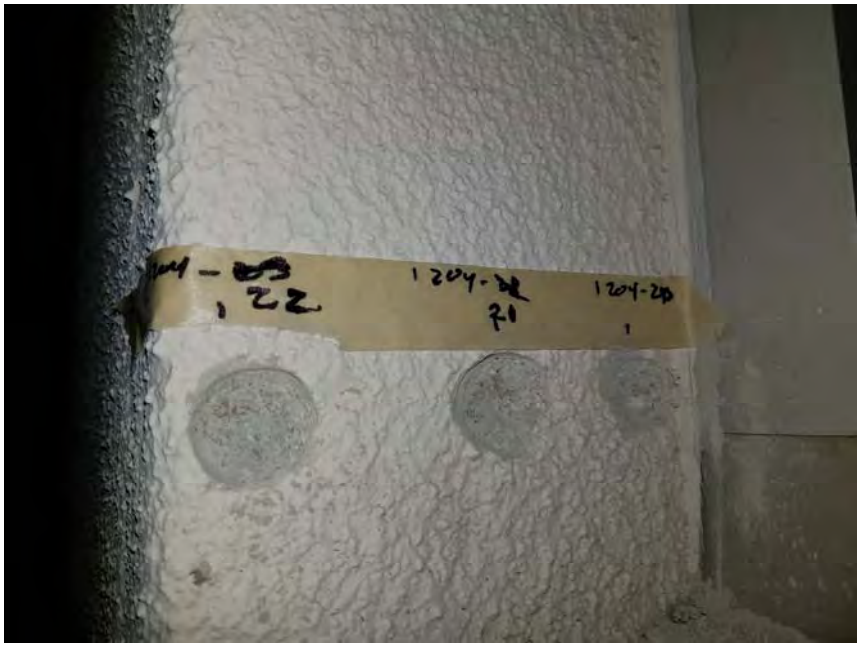
Mckinely Elementary School – Building B

1204-13 thru 1204-15

1204-16 thru 19

Mckinely Elementary School – Building B

1204-20 thru 1204-22



1204-23 thru 1204-25

Mckinely Elementary School – Building B

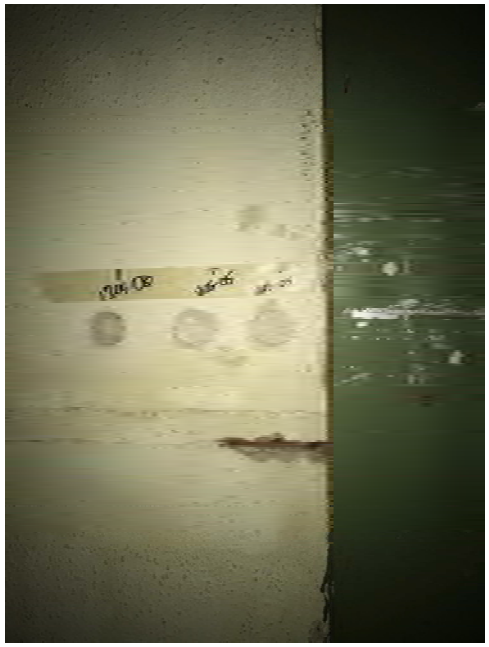
1204-26 thru 1204-28

1204-29 thru 1204-33

Mckinely Elementary School – Building B

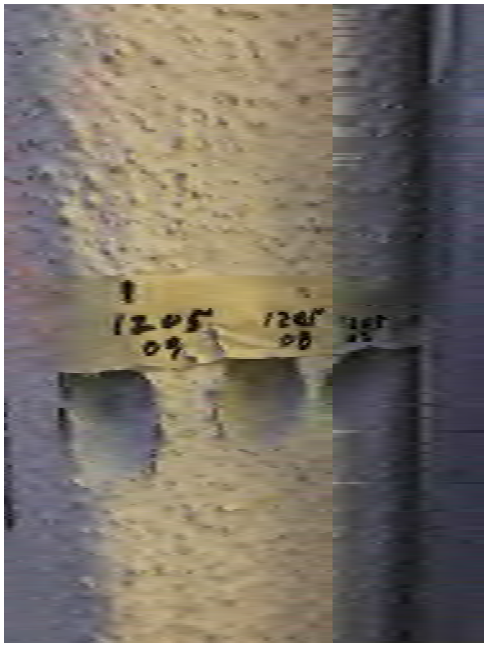
1205-01 thru 1205-03

1205-04 thru 1205-06



Mckinely Elementary School – Building B

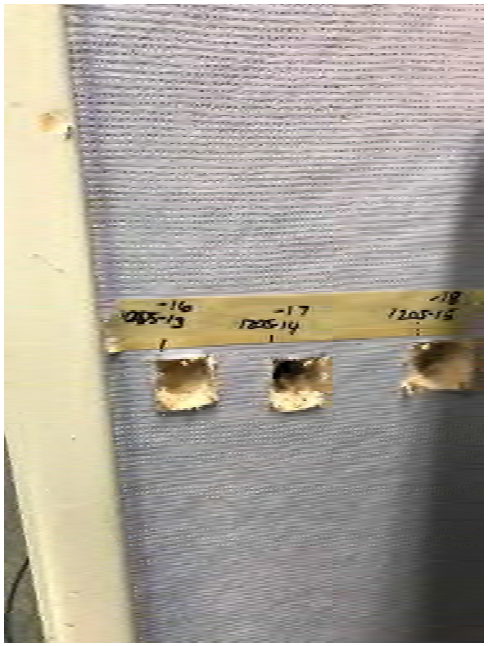
1205-07 thru 1205-09



1205-10 thru 1205-12

Mckinely Elementary School – Building B

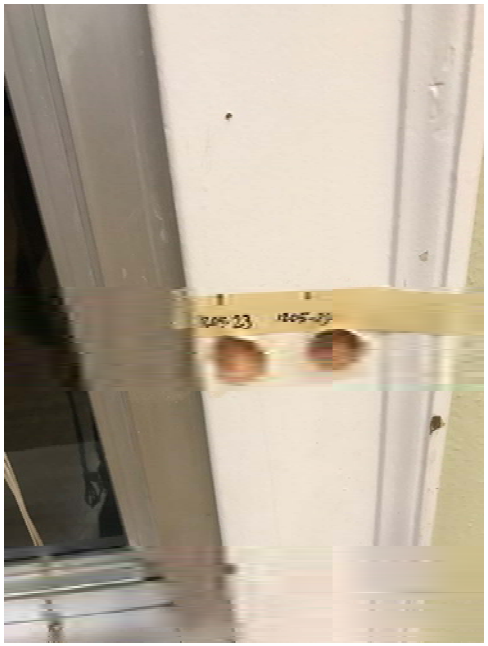
1205-13 thru 1205-18



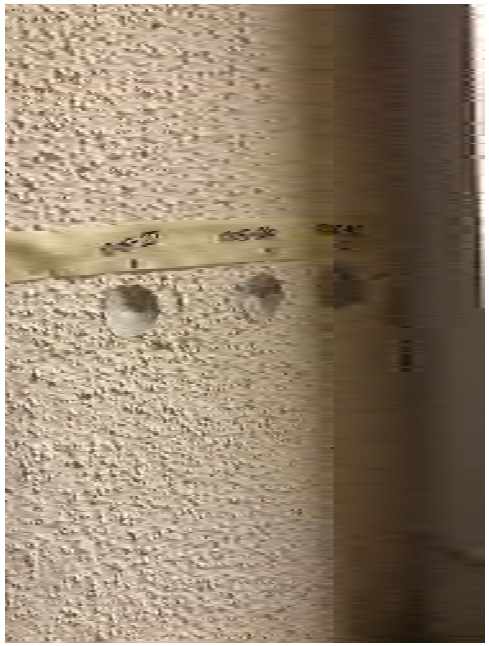
1205-19 thru 1205-22

Mckinely Elementary School – Building C

1205-23 thru 1205-24



1205-25 thru 1205-27



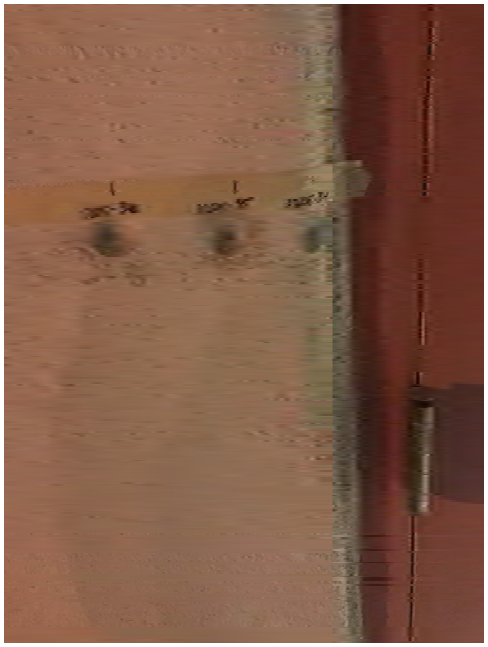
Mckinely Elementary School – Building C

1205-28 thru 1205-30

1205-31 thru 1205-33

Mckinely Elementary School – Building C

1205-34 thru 1205-36



1205-37 thru 1205-38

Mckinely Elementary School – Building C

1205-39 thru 1205-42

1205-43 thru 1205-44

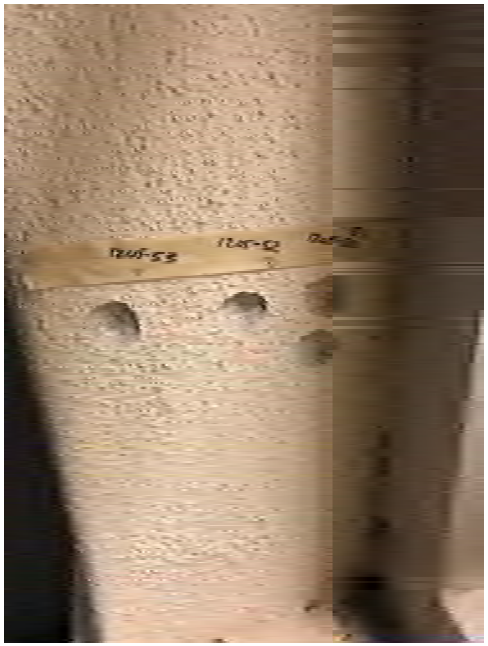
Mckinely Elementary School – Building C

1205-45 thru 1205-47

1205-48 thru 1205-49

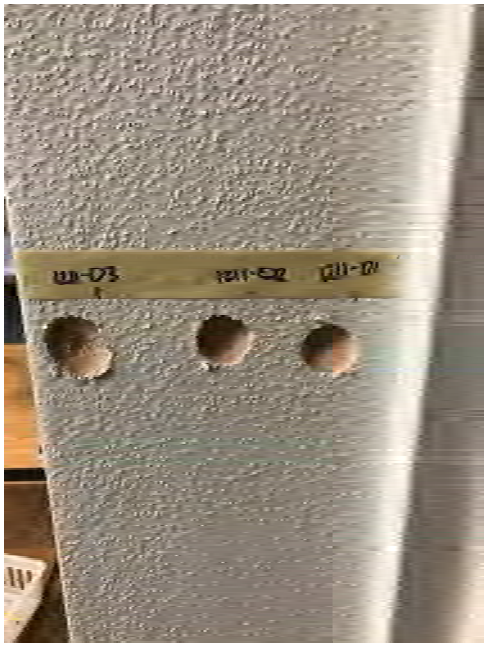
Mckinely Elementary School – Building C

1205-50 thru 1205-53



Mckinely Elementary School – Building C

1211-01 thru 1211-03



1211-04 thru 1211-06

Mckinely Elementary School – Building C

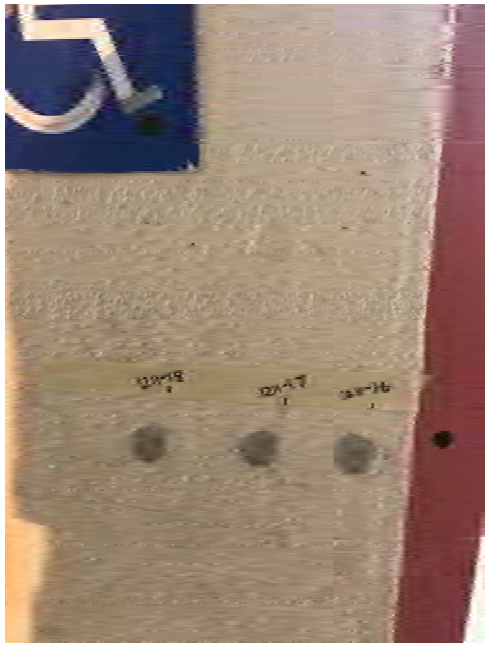
1211-07 thru 1211-09

1211-10 thru 1211-12

Mckinely Elementary School – Building C

1211-13 thru 1211-15

1211-16 thru 1211-18



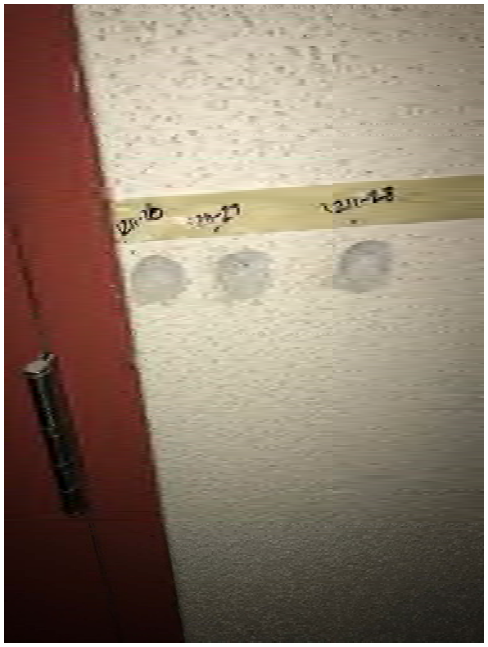
Mckinely Elementary School – Building C

1211-19 thru 1211-22

1211-23 thru 1211-25

Mckinely Elementary School – Building C

1211-26 thru 1211-28



1211-29 thru 1211-32

Mckinely Elementary School – Building C

1212-01 thru 1212-03

1212-04 thru 1212-06

Mckinely Elementary School – Building C

1212-07 thru 1212-08

1212-09 thru 1212-11

Mckinely Elementary School – Building C

1212-12 thru 1212-14

1212-15 thru 1212-16

Mckinely Elementary School – Building C

1212-17 thru 1212-19

1212-20 thru 1212-22

Mckinely Elementary School – Building C

1212-23 thru 1212-24

1212-25 thru 1212-27

Mckinely Elementary School – Building C

1212-28 thru 1212-30

1212-31 thru 1212-32

Mckinely Elementary School – Building C

1212-33 thru 1212-35

1212-36 thru 1212-37

Mckinely Elementary School – Building C

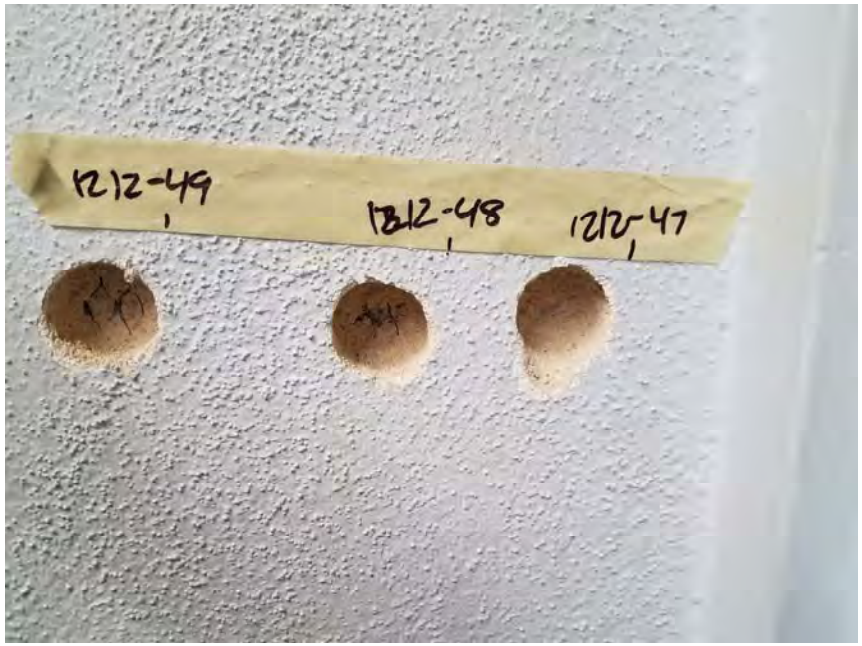
1212-38 thru 1212-40

1212-41 thru 1212-43

Mckinely Elementary School – Building C

1212-44 thru 1212-46

1212-47 thru 1212-49



Mckinely Elementary School – Building C

1227-01

1227-02

Mckinely Elementary School – Building C

1227-03

1227-04

Mckinely Elementary School – Building C

1227-05

1227-06

Mckinely Elementary School – Building C

1227-07

1227-08

Mckinely Elementary School – Building C

1227-09

1227-10

Mckinely Elementary School – Building C

1227-11

1227-12

Mckinely Elementary School – Building C

1227-13

1227-14

Mckinely Elementary School – Building C

1227-15

1227-16

Mckinely Elementary School – Building C

1227-17

1227-18

Mckinely Elementary School – Building C

1227-19

1227-20

Mckinely Elementary School – Building C

1227-21

1227-22

Mckinely Elementary School – Building C

1227-23

1227-24

Mckinely Elementary School – Building C

1227-25

1227-26

Mckinely Elementary School – Building C

1227-27

1227-28

Mckinely Elementary School – Building C

1227-29

1227-30

Mckinely Elementary School – Building C

1227-31

1227-32

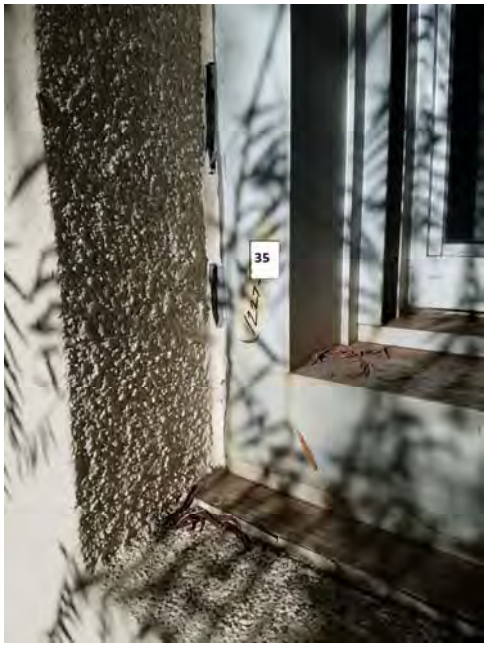
Mckinely Elementary School – Building C

1227-33

1227-34

Mckinely Elementary School – Building C

1227-35



012618JR-01

Mckinely Elementary School – Building D

1228-24

1228-25

Mckinely Elementary School – Building D

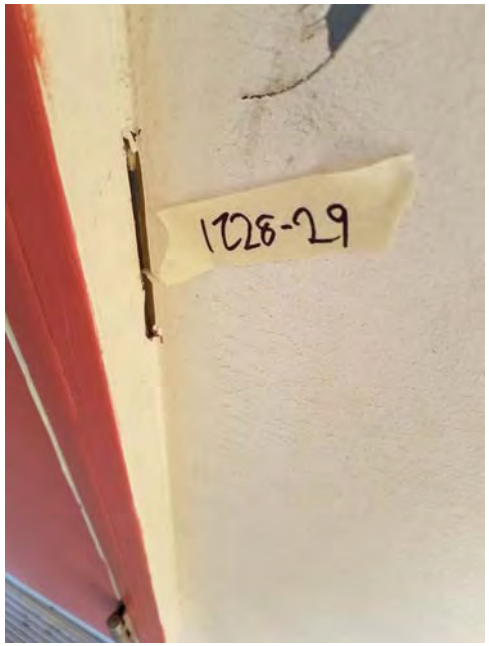
1228-26

1228-27

Mckinely Elementary School – Building D

1228-28

1228-29



Mckinely Elementary School – Building D

1228-30

1228-31

Mckinely Elementary School – Building D

1228-32

1228-33

Mckinely Elementary School – Building D

1228-34

1228-35

Mckinely Elementary School – Building D

1228-36

1228-37

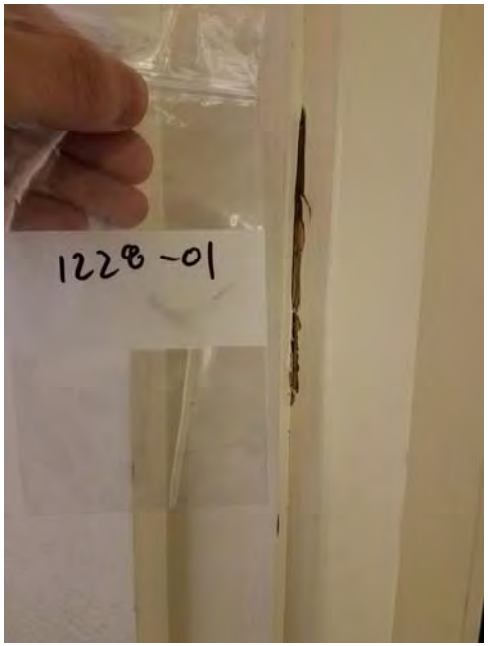
Mckinely Elementary School – Building D

1228-38

1228-39

Mckinely Elementary School – Building A

1228-01



1228-02

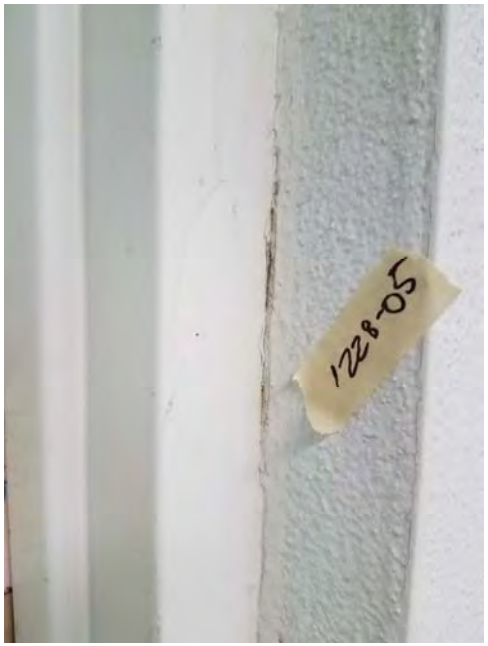
Mckinely Elementary School – Building B

1228-03

1228-04

Mckinely Elementary School – Building B

1228-05



1228-06

Mckinely Elementary School – Building B

1228-07

1228-08

Mckinely Elementary School – Building B

1228-09

1228-10

Mckinely Elementary School – Building B

1228-11

1228-12

Mckinely Elementary School – Building B

1228-13

1228-14

Mckinely Elementary School – Building B

1228-15

1228-16

Mckinely Elementary School – Building B

1228-17

1228-18

Mckinely Elementary School – Building B

1228-19

1228-20

Mckinely Elementary School – Building B

1228-21

1228-22

Mckinely Elementary School – Building B

1228-23