PCB DELINEATION AND SOURCE BULK SAMPLING REPORT

Doors and Windows Replacement Project
Franklin Elementary School
2801 Montana Avenue
Santa Monica, California 90405

Prepared for:

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

Project No.: SMSD-17-7261

Reported Date: January 5, 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, D, E, F and G at Franklin Elementary School located at 2801 Montana Avenue, Santa Monica, California 90405. The delineation and bulk sampling activities were conducted to determine the potential presence of polychlorinated biphenyl compounds (PCBs) in order to characterize materials for off-site waste disposal. 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 on November 28, 29 and 30, 2017. The objective of the sampling was to determine if suspected PCBs may have migrated to adjacent porous materials. The laboratory reported all delineation samples collected at 1″ interval away from the door and window frames as non-detected, at the laboratory Actual Detection Limit of 0.5 ppm.

Based on the delineation sampling results, on December 11, 2017, and December 21, 2017, Alta collected representative source bulk samples of door caulking, window caulking and window glazing. The objective of the source sampling was to determine if it contained PCBs above 50 parts per million (ppm). Representative samples of window caulking, and door caulking collected from Building F 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-small wooded widows mounted on the West side of Building F, and all entry doors (Type A) located on the East side of Building F,
2. Excluded PCB Product-all other components tested as part of this scope of work

Removal of the PCB Bulk Product Waste associated with door and window caulking in Building F 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.

CONTENTS

REPORTED: January 5, 2018 **PROJECT NO.:** SMSD-17-7261

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
Franklin Elementary School
2801 Montana Avenue
Santa Monica, California 90405

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 ballast and other electrical equipment. The manufacture and use of PCBs were banned in the United States in 1976, and PCB compounds were phased out between 1978 and 1979.

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:

- 1924, Building E
- 1935, Building C
- 1936, Buildings D and G
- 1958, Buildings A and F
- 1969, Building B

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 building. 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 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, D, E, F, and G and was representative of the door and window frames scheduled to be removed and replaced as per DSA approved drawings prepared by dsk Architects, dated November 14, 2017 (DSA Application No: 03-118308).

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. Only the 1″ sample was initially analyzed, with the intent of analyzing the 3″ and 6″ samples only if PCBs were detected.

Following the delineation sampling, Alta collected source bulk samples representative of door and window frames. Alta performed an inspection of the door and window frames which are scheduled to be removed, replaced and documented all visible and accessible suspect PCB-containing caulking and glazing materials and prepared an inventory for sampling. Materials which are applied in a similar manner, had similar characteristic such as size, use, color, age of the building (if available), and texture, were defined as homogeneous materials.

Homogeneous materials were sampled representative of the group of building construction date. Alta collected a minimum of three representative random samples of each homogeneous material. In cases where limited components were removed, (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 this project 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

1. PCB Bulk Product Waste-
    a. Small wooden closet windows (11 windows) located on the West side under canopy, Building F; and
    b. Type A doors F8, F9, F10, F11, F12, F13, F14 (7 doors) located on the East side of Building F.
2. Excluded PCB Product-
    a. All other components tested, door and window frames in Buildings A, B, D, E and G.

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

In addition to the primary samples, Alta collected four 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 samples including 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.

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

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

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

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

One duplicate sample was 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-small wooded widows mounted on the West side of Building F, and all entry doors (Type A) located on the East side of the Building F;
2. Excluded PCB Product-all other components tested as part of this scope of work.

Removal of the PCB Bulk Product Waste associated with door and window caulking in Building F 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, window glazing and surrounding porous materials in affected components scheduled to be removed in Buildings A, B, D, E, F and G. 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 SAMPLE INVENTORIES

Summary of Delineation Sampling

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7261
PROJECT: Franklin ES
Date: November 28, 29, and 30, 2017

Building Name	Sample Number	Component ID	Sample Description	Sample Location	Photograph Number	Total PCBs (mg/kg)
E	1128-1	Full Wall Window	Stucco	Room 15, north window, east end (1")-exterior	1128-1	ND
E	1128-4	Full Wall Window	concrete	Room 15, north window, east end (1")-exterior	1128-4	ND
E	1128-7	Full Wall Window	Plaster	Room 15, north window, east end (1")-interior	1128-7	ND
E	1128-10	Full Wall Window	concrete	Room 15, north window, 3 feet east of door (1")	1128-10	ND
B	1128-13	Doorframe type B	Plaster	Room 5, north end, east of door, 4 feet up (1")-interior	1128-13	ND
B	1128-16	Doorframe type B	Plaster	Nurses office, west entry door, north side of door, 2 feet up (1") interior	1128-16	ND
B	1128-19	Doorframe type A	Plaster	Staff restroom (room 110), north entry door, east end, 2 feet up (1") interior	1128-19	ND
B	1128-20	Doorframe type A	Plaster	Side by side duplicate sample of 1128-19	1128-20	ND
D	1129-1	Full wall window	Stucco	Room D20, north window, west end (1") exterior	1129-1	ND
D	1129-4	Full wall window	concrete	Room D20, north window, west end (1") exterior	1129-4	ND
D	1129-7	Full wall window	Plaster	Room D20, north window, west end (1") interior	1129-7	ND
D	1129-10	Full wall window	concrete	Room D20, north window, east end (1") interior	1129-10	ND
A	1129-13	Door frame (metal) type C	Plaster	Serving area (A133), south entry door, west end, 2 feet up (1") interior	1129-13	ND
A	1129-16	Door frame (metal) type C	Stucco	Serving area (A133), south entry door, west end, 2 feet up (1") exterior	1129-16	ND
A	1129-19	Door frame (wood) type C	Plaster	Serving area (A133), NW entry door, west end of door, 2 feet up (1") interior	1129-19	ND

Summary of Delineation Sampling

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7261
PROJECT: Franklin ES
Date: November 28, 29, and 30, 2017

Building Name	Sample Number	Component ID	Sample Description	Sample Location	Photograph Number	Total PCBs (mg/kg)
A	1129-20	Door frame (wood) type C	Stucco	Side by side duplicate sample of 1129-19	1129-20	ND
A	1129-23	Doorframe type A	Stucco	Staff restroom (A136), SE entry door, west end, 2 feet up (1") exterior	1129-23	ND
A	1129-26	Doorframe type A	Plaster	Staff restroom (A136), SE entry door, west end, 2 feet up (1") interior	1129-26	ND
F	1130-1	Doorframe Type A (F9)	Stucco	Room 9, east door, left side of door 2 feet up (1 ")-exterior	1130-1	ND
F	1130-04	Doorframe Type A (F9)	Rough wall plaster	Room 9, east door, right side of door 6 feet up (1 ")-interior	1130-04	ND
F	1130-07	Small wooden window frame	Stucco	Room 8, closet, west side of window (under window), 8 feet up (1 ")-exterior	1130-07	ND
F	1130-10	Small wooden window frame	Rough wall plaster	Room 8, closet, west side of window (under window), 8 feet up (1 ")-interior	1130-10	ND
F	1130-13	Small wooden window frame	Stucco	Room 14, closet, west side of window (under window), 8 feet up (1")-exterior	1130-13	ND
F	1130-16	Small wooden window frame	Rough wall plaster	Room 14, closet, west side of window (under window), 8 feet up (1")-interior	1130-16	ND
G	1130-19	Doorframe Type A (G30)	Stucco	Room K30, north door, left side of door, 4 feet up (1")-interior	1130-19	ND
G	1130-20	Doorframe Type A (G30)	Rough wall plaster	Side by side duplicate sample of 1130-19	1130-20	ND

Summary of Delineation Sampling

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7261
PROJECT: Franklin ES
Date: November 28, 29, and 30, 2017

Building Name	Sample Number	Component ID	Sample Description	Sample Location	Photograph Number	Total PCBs (mg/kg)
G	1130-23	Doorframe Type A (G30)	Rough wall plaster	Room K30, north door, left side of door, 4 feet up (1")-exterior	1130-23	ND
G	1130-26	Steel widow in wood frame	Rough wall plaster	Room K30, north window, right side of window, 4 feet up, (1") Split sample with sample number 1130-27	1130-26	ND
G	1130-27	Steel widow in wood frame	Rough wall plaster	Split sample with sample number 1130-26	1130-27	ND
G	1130-30	Steel widow in wood frame	Stucco	Room K30, north window, right side of window, 4 feet up, (1")	1130-30	ND
G	1130-31	Steel widow in wood frame	Stucco	Side by side duplicate sample of 1130-30	1130-31	ND

SOURCE SAMPLE INVENTORIES

Summary of Source Bulk Sampling

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7261
PROJECT: Franklin ES
Date: December 11, 2017 and December 21, 2017

Building Name	Sample Number	Component ID	Sample Description	Sample Location	Photograph Number	Total PCBs (mg/kg)
A	NA	Type C double door (A133.1)	Note: No caulking was observed on the kitchen south double doors. No sample taken		N/A	No Applicable
A	NA	Type A door (A137)	Note: No caulking was observed. No sample taken		N/A	No Applicable
A	F1	Type A door (A136)	Caulking	Faculty restroom (A136), inner side of door, west end, 4 feet up	F1	Non Detected
B	F2	Type B door	Caulking	Nurses office, west entry door, north side of door, 2 feet up	F2	Non Detected
B	F3	Type B door	Caulking	Room 5, NE door, east side, 4 feet up	F3	Non Detected
B	1221-01	Type B door	Caulking	Room 5, NW door on west side of door, 4 feet up	1221-01	Non Detected
B	F4	Type B door	Caulking	Room 2, NE door, east side, 4 feet up	F41	Non Detected
B	F5	Type A door	Caulking	Faculty staff restroom entry door, east side, 2 feet up	F5	Non Detected
D	F6	Full wall window	Caulking	Exterior room 20, north side under west corner	F6	Non Detected
D	F7	Full wall window	Caulking	Exterior room 18, north side under window. Base of window	F7	Non Detected
E	F8	Full wall window	Caulking	Exterior room 15, north window, east corner	F8	Non Detected
E	F9	Full wall window	Glazing	Exterior room 15, north center, 4 feet up	F9	Non Detected
E	F10	Full wall window	Glazing	Exterior room 16, north window, NW end, 5 feet up	F10	Non Detected
D	F11	Full wall window	Glazing	Exterior room 19, north window, west corner, 6 feet up	F11	Non Detected
F	F12	Small wooden window	Glazing	Exterior room 14, NW window	F12	Non Detected
F	F13	Small wooden window	Glazing	Exterior room 12, NW window, 6 feet up	F13	Non Detected

Summary of Source Bulk Sampling

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7261
PROJECT: Franklin ES
Date: December 11, 2017 and December 21, 2017

Building Name	Sample Number	Component ID	Sample Description	Sample Location	Photograph Number	Total PCBs (mg/kg)
F	F14	Small wooden window	Glazing	Exterior room 8, NW widow, 4 feet up	F14	Non Detected
F	F15	Small wooden window	Caulking	Room 14, NW window, 6 feet up	F15	505 (Aroclor 1254)
F	F16	Small wooden window	Caulking	Room 12, NW window, 6 feet up	F16	Non Detected
F	F17	Small wooden window	Caulking	Room 8, NW window, 6 feet up	F17	10.2 (Aroclor 1254)
F	F18	Type A door	Caulking	Room 14, east door, south end, 6 feet up	F18	907 (Aroclor 1254)
F	F19	Type A door	Caulking	Room 12, east door, south end, 3 feet up	F19	Non Detected
F	F20	Type A door	Caulking	Room 9, east end door, south end, 3 feet up	F20	Non Detected
G	F21	Type A door	Caulking	Exterior room K30, NE door, east side, 3 feet up	F21	Non Detected
G	F22	Type A door	Caulking	Side by side duplicate sample of F21	F22	Non Detected
G	1221-06	Type A door	Caulking	Room K30, NE door, west side (left) of door, 4 feet up	1221-06	Non Detected
G	1221-07	Type A door	Caulking	Room K31C, restroom door on left side of door, 4 feet up	1221-07	Non Detected

Summary of Source Bulk Sampling

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7261
PROJECT: Franklin ES
Date: December 11, 2017 and December 21, 2017

Building Name	Sample Number	Component ID	Sample Description	Sample Location	Photograph Number	Total PCBs (mg/kg)
G	F23	Window casing	Caulking	Room K30, NE window, west end, 4 feet up	F23	Non Detected
G	1221-02	Window casing	Caulking	Room K31, NE window on right side, 5 feet up	1221-02	Non Detected
G	1221-04	Window casing	Caulking	Room K31, NW window right side, 4 feet up	1221-04	Non Detected
G	F24	Window casing	Glazing	Room K30, NE window, west end, 3 feet up	F24	Not Detected
G	1221-03	Window casing	Glazing	Room K31, NE window on right side, 5 feet up	1221-03	Non Detected
G	1221-05	Window casing	Glazing	Room K31, NW window right side, 4 feet up	1221-05	Non Detected

Appendix B

Laboratory Reports

DELINEATION SAMPLE RESULTS

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

Date: December 6, 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: **Franklin E.S.**
Lab I.D.: **171130-79 through -100**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on November 30, 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: **Franklin E.S.**

DATE SAMPLED: 11/28/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 11/30/17
DATE EXTRACTED: 12/04-05/17
DATE ANALYZED: 12/05/17
DATE REPORTED: 12/06/17

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
1128-1	171130-79	ND	ND	ND	ND	ND	ND	ND	ND	1
1128-4	171130-82	ND	ND	ND	ND	ND	ND	ND	ND	1
1128-7	171130-85	ND	ND	ND	ND	ND	ND	ND	ND	1
1128-10	171130-88	ND	ND	ND	ND	ND	ND	ND	ND	1
1128-13	171130-91	ND	ND	ND	ND	ND	ND	ND	ND	1
1128-16	171130-94	ND	ND	ND	ND	ND	ND	ND	ND	1
1128-19	171130-97	ND	ND	ND	ND	ND	ND	ND	ND	1
1128-20	171130-98	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: 12/5/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171205-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.083	**83%**	0.079	**79%**	**5%**	**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	171130-79	171130-82	171130-85	171130-88	171130-91	171130-94
Tetra-chloro-meta-xylene	50-150	120%	125%	139%	145%	125%	127%	140%
Decachlorobipneyl	50-150	78%	100%	143%	138%	120%	111%	108%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171130-97	171130-98	171122-49	171122-50	171122-52	171122-53	171122-55	171122-56
Tetra-chloro-meta-xylene	120%	123%	121%	125%	133%	124%	126%	113%
Decachlorobipneyl	110%	115%	122%	105%	105%	85%	107%	98%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171122-61	171122-62	171122-65	171122-66	171122-69	171122-70
Tetra-chloro-meta-xylene	112%	120%	124%	121%	124%	119%
Decachlorobipneyl	70%	89%	87%	147%	100%	115%

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:

Misc./PO# Franklin E.S.

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA 8082 PCBs	COMMENTS
1128-1	171130-79	11-28-17	1600	bulk	1	4°C	Ice	X	1"
2	-80		1608		1			X	archive 3"
3	-81		1610		1			X	6"
4	-82		1618		1			X	1"
5	-83		1625		1			X	archive 3"
6	-84		1628		1			X	6"
7	-85		1645		1			X	1"
8	-86		1650		1			X	archive 3"
9	-87		1655		1			X	6"
10	-88		1715		1			X	1"
11	-89		1720		1			X	archive 3"
12	-90		1723		1			X	6"
13	-91		1840		1			X	1"
14	-92		1845		1			X	archive 3"
15	-93		1847		1			X	6"

Analysis Required

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

Relinquished by:	Received by:	Date & Time: 11/30/2017 2:45 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: 11-30-17

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:

Misc./PO# Franklin E.S.

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: EPA Method 8082 PCBs	COMMENTS
1128-16	171130-94	1128-17	1900	Bulk	1 4oz		Ice	X	1"
17	-95		1920		1			X	Archive 3"
18	-96		1922		1			X	6"
19	-97		2000		1			X	1"
20	-98		2001		1			X	1"
21	-99		2009		1			X	Archive 5"
22	-100		2016		1			X	6"

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

Relinquished by:	Received by:	Date & Time: 11/30/2017 2:15 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: 11-30-17

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 8, 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: **Franklin E.S.**
Lab I.D.: **171201-158 through -185**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on December 1, 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: **Franklin E.S.**

DATE SAMPLED: 11/29/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 12/01/17
DATE EXTRACTED: 12/05-06/17
DATE ANALYZED: 12/06/17
DATE REPORTED: 12/08/17

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
1129-1	171201-158	ND	ND	ND	ND	ND	ND	ND	ND	1
1129-4	171201-161	ND	ND	ND	ND	ND	ND	ND	ND	1
1129-7	171201-164	ND	ND	ND	ND	ND	ND	ND	ND	1
1129-10	171201-167	ND	ND	ND	ND	ND	ND	ND	ND	1
1129-13	171201-170	ND	ND	ND	ND	ND	ND	ND	ND	1
1129-16	171201-173	ND	ND	ND	ND	ND	ND	ND	ND	1
1129-19	171201-176	ND	ND	ND	ND	ND	ND	ND	ND	1
1129-20	171201-177	ND	ND	ND	ND	ND	ND	ND	ND	1
1129-23	171201-180	ND	ND	ND	ND	ND	ND	ND	ND	1
1129-26	171201-183	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: 12/6/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171206-LCS 1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.089	**89%**	0.097	**97%**	**9%**	**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	171201-158	171201-161	171201-164	171201-169	171201-170	171201-173
Tetra-chloro-meta-xylene	50-150	113%	133%	120%	131%	133%	122%	140%
Decachlorobipneyl	50-150	106%	95%	71%	96%	97%	91%	102%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171201-176	171201-177	171201-180	171201-183				
Tetra-chloro-meta-xylene	126%	123%	125%	133%				
Decachlorobipneyl	94%	98%	98%	106%				

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

S.R. = Sample Result

spk conc = Spike Concentration

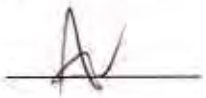
%REC = Percent Recovery

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
0 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA Method 8082 PCBs	COMMENTS
1129-1	171201-158	11-29-17	1601	Bulk	1 4oz		ICE	X	1"
2	- 159		1610		1			X	archive 3"
3	- 160		1615		1			X	+ 6"
4	- 161		1625		1			X	1"
5	- 162		1629		1			X	archive 3"
6	- 163		1630		1			X	+ 6"
7	- 164		1700		1			X	1"
8	- 165		1706		1			X	archive 3"
9	- 166		1710		1			X	+ 6"
10	- 167		1715		1			X	1"
11	- 168		1728		1			X	archive 3"
12	- 169		1730		1			X	+ 6"
13	- 170		1915		1			X	1"
14	- 171		1925		1			X	archive 3"
15	- 172		1930		1			X	+ 6"

Misc./PO#

Analysis Required

Company Name: Alta Environmental	**Project Contact:** Cesar Rivalcaba
Address: 3777 Long Beach Blvd	**Tel:**
City/State/Zip: Long Beach Ca	**Fax:**
Sampler's Signature:	**Project Name/ID:** Franklin E.S.

Relinquished by:	Received by:	Date & Time: 12/1/2017 1145 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 O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 12-01-17

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 method 8082 PCBs	Misc./PO#	COMMENTS
								Analysis Required		
11-29-16	171201-173	11-29-17	1941	Bulk	1 4oz		ICE	X	Franklin E.S.	1"
17	-174		1946		1			X		archive 3"
18	-175		1950		1			X		1 6"
19	-176		2000		1			X		1"
20	-177		2001		1			X		1"
21	-178		2010		1			X		archive 3"
22	-179		2015		1			X		1 6"
23	-180		2030		1			X		1"
24	-181		2038		1			X		archive 3"
25	-182		2042		1			X		1 6"
26	-183		2100		1			X		1"
27	-184		2115		1			X		archive 3"
28	-185		2118					X		1 6"

Company Name: Alta Environmental
Address: 3772 Long Beach Blvd
City/State/Zip: Long Beach CA
Project Contact: Cesar Rueloas
Tel:
Fax:
Sampler's Signature:
Project Name/ID: Franklin E.S.

Relinquished by:	Received by:	Date & Time: 12/1/2017 11:45 AM	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: 12-01-17

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 8, 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: **Franklin E.S.**
Lab I.D.: **171201-186 through -218**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on December 1, 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: **Franklin E.S.**

DATE SAMPLED: 11/30/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 12/01/17
DATE EXTRACTED: 12/05-06/17
DATE ANALYZED: 12/06/17
DATE REPORTED: 12/08/17

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
1130-01	171201-186	ND	ND	ND	ND	ND	ND	ND	ND	1
1130-04	171201-189	ND	ND	ND	ND	ND	ND	ND	ND	1
1130-07	171201-192	ND	ND	ND	ND	ND	ND	ND	ND	1
1130-10	171201-195	ND	ND	ND	ND	ND	ND	ND	ND	1
1130-13	171201-198	ND	ND	ND	ND	ND	ND	ND	ND	1
1130-16	171201-201	ND	ND	ND	ND	ND	ND	ND	ND	1
1130-19	171201-204	ND	ND	ND	ND	ND	ND	ND	ND	1
1130-20	171201-205	ND	ND	ND	ND	ND	ND	ND	ND	1
1130-23	171201-208	ND	ND	ND	ND	ND	ND	ND	ND	1
1130-26	171201-211	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: **Franklin E.S.**

DATE SAMPLED: 11/30/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 12/01/17
DATE EXTRACTED: 12/05-06/17
DATE ANALYZED: 12/06/17
DATE REPORTED: 12/08/17

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
1130-27	171201-212	ND	ND	ND	ND	ND	ND	ND	ND	1
1130-30	171201-215	ND	ND	ND	ND	ND	ND	ND	ND	1
1130-31	171201-216	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: 12/6/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171206-LCS 1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.089	**89%**	0.097	**97%**	**9%**	**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	171201-158	171201-161	171201-164	171201-169	171201-170	171201-173
Tetra-chloro-meta-xylene	50-150	113%	133%	120%	131%	133%	122%	140%
Decachlorobipneyl	50-150	106%	95%	71%	96%	97%	91%	102%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171201-176	171201-177	171201-180	171201-183	171201-186	171201-189	171201-192	171201-195
Tetra-chloro-meta-xylene	126%	123%	125%	133%	122%	142%	127%	132%
Decachlorobipneyl	94%	98%	98%	106%	107%	99%	90%	71%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171201-198	171201-201	171201-204	171201-205	171201-208	171201-211
Tetra-chloro-meta-xylene	123%	104%	122%	122%	710*%	128%
Decachlorobipneyl	74%	104%	112%	103%	96%	85%

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: 12/6-7/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171206-LCS 3/4

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.083	**83%**	0.083	**83%**	**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	171201-212	171201-215	171201-216			
Tetra-chloro-meta-xylene	50-150	128%	124%	465*%	305*%			
Decachlorobipneyl	50-150	96%	101%	82%	74%			

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: _____

Gmail Jessica Lin <envirocheminc@gmail.com>

Test confirmation

Cesar Ruvalcaba <Cesar.Ruvalcaba@altaenviron.com> Fri, Dec 1, 2017 at 6:10 PM
To: Jessica Lin <envirocheminc@gmail.com>
Cc: Fabian Ruvalcaba <Fabian.Ruvalcaba@altaenviron.com>, Jorge Robles <Jorge.Robles@altaenviron.com>

Thanks for checking with us. Only analyze the shallow 1" samples for now.

Sent from my iPhone

> On Dec 1, 2017, at 5:46 PM, Jessica Lin <envirocheminc@gmail.com> wrote:
>
> Hi Cesar,
>
> I want to confirm that the 2nd page of the COC needs to have all the samples analyzed instead of just the shallow sample.
> Please confirm so we can proceed
>
> Thanks
>
> Jessica Lin
> Enviro-Chem, Inc.
> 909-590-5905
>
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Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

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

Misc./PO# Franklin E.S.

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: EPA 8260B	COMMENTS
1130-01	171201-186	11/30/17	1601	Bulk	1		ICE	X	1"
1130-02	- 187		1605		1			X	archive 3"
1130-03	- 188		1608		1			X	↓ 6"
1130-04	- 189		1612		1			X	1"
1130-05	- 190		1615		1			X	archive 3"
1130-06	- 191		1620		1			X	↓ 6"
1130-07	- 192		1623		1			X	1"
1130-08	- 193		1627		1			X	archive 3"
1130-09	- 194		1630		1			X	↓ 6"
1130-10	- 195		1634		1			X	1"
1130-11	- 196		1636		1			X	archive 3"
1130-12	- 197		1640		1			X	↓ 6"
1130-13	- 198		1645		1			X	1"
1130-14	- 199		1647		1			X	archive 3"
1130-15	- 200	↓	1650	↓	1		↓	X	↓ 6"

Company Name: ALTA Environmental
Project Contact: Cesar Arvalcaba
Sampler's Signature:
Address: 3777 Long Beach Blvd, Annex Bldg
Tel:
Project Name/ID: Franklin E.S.
City/State/Zip: Long Beach CA 90807
Fax:

Relinquished by:	Received by:	Date & Time: 12/1/2017 1145 AM	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: 12-01-17

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 8052	Analysis Required	COMMENTS
1130-16	171201-201	11/30/17	1652	Bulk	1	40C	ICE	X		1"
1130-17	-202		1654		1			X		3"
1130-18	-203		1700		1			X		6"
1130-19	-204		1705		1			X		1"
1130-20	-205		1710		1			X		1"
1130-21	-206		1712		1			X		3"
1130-22	-207		1716		1			X		6"
1130-23	-208		1720		1			X		1"
1130-24	-209		1730		1			X		3"
1130-25	-210		1735		1			X		6"
1130-26	-211		1737		1			X		1"
1130-27	-212		1740		1			X		1"
1130-28	-213		1745		1			X		3"
1130-29	-214		1750		1			X		6"
1130-30	-215		1752		1			X		1"

Misc./PO#

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

Project Contact: Cesar Rivalcaba
Tel:
Fax:

Sampler's Signature:
Project Name/ID: SM SD-17-7261

Relinquished by:	Received by:	Date & Time: 12/1/2017 1145 AM	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: 12-01-17

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									Misc./PO#	COMMENTS
								Analysis Required										
1130-31	17201-216	11/30/17	1754	Bulk	1x4oz		ICE	X										1"
1130-32	- 217	"	1800	"	"		"	X										3" @ Chuck
1130-33	- 218	"	1805	"	"		"	X										6"

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

Project Contact: Cesar Rivalcaba
Tel:
Fax:

Sampler's Signature:
Project Name/ID: SMSD-17-7261

Relinquished by:	Received by:	Date & Time: 12/1/2017 1145 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 O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 11/30/17 12-01-17

WHITE WITH SAMPLE • YELLOW TO CLIENT

Page _____ of _____

SOURCE SAMPLE RESULTS

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

Date: December 19, 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: **Franklin E.S. Source**
Lab I.D.: **171214-20 through -42**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on December 14, 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: **Franklin E.S. Source**
DATE SAMPLED: 12/11/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 12/14/17
DATE EXTRACTED: 12/15/17
DATE ANALYZED: 12/16/17
DATE REPORTED: 12/19/17

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
F-1	171214-20	ND	ND	ND	ND	ND	ND	ND	ND	2^
F-2	171214-21	ND	ND	ND	ND	ND	ND	ND	ND	1
F-3	171214-22	ND	ND	ND	ND	ND	ND	ND	ND	1
F-4	171214-23	ND	ND	ND	ND	ND	ND	ND	ND	1
F-5	171214-24	ND	ND	ND	ND	ND	ND	ND	ND	1
F-6	171214-25	ND	ND	ND	ND	ND	ND	ND	ND	1
F-7	171214-26	ND	ND	ND	ND	ND	ND	ND	ND	1
F-8	171214-27	ND	ND	ND	ND	ND	ND	ND	ND	1
F-9	171214-28	ND	ND	ND	ND	ND	ND	ND	ND	1
F-10	171214-29	ND	ND	ND	ND	ND	ND	ND	ND	1
F-11	171214-30	ND	ND	ND	ND	ND	ND	ND	ND	1
F-12	171214-31	ND	ND	ND	ND	ND	ND	ND	ND	1
F-13	171214-32	ND	ND	ND	ND	ND	ND	ND	ND	1
F-14	171214-33	ND	ND	ND	ND	ND	ND	ND	ND	1
F-15	171214-34	ND	ND	ND	ND	ND	505 ***	ND	505 ***	80
F-16	171214-35	ND	ND	ND	ND	ND	ND	ND	ND	1
F-17	171214-36	ND	ND	ND	ND	ND	10.2	ND	10.2	2
F-18	171214-37	ND	ND	ND	ND	ND	907 ***	ND	907 ***	200
F-19	171214-38	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
^ = Actual Detection Limit raised due to limited sample quantity
* = 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: **Franklin E.S. Source**
DATE SAMPLED:12/11/17
MATRIX:SOLID
REPORT TO:MR. CESAR RUVALCABA

DATE RECEIVED:12/14/17
DATE EXTRACTED:12/15/17
DATE ANALYZED:12/16/17
DATE REPORTED:12/19/17

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
F-20	171214-39	ND	ND	ND	ND	ND	ND	ND	ND	1
F-21	171214-40	ND	ND	ND	ND	ND	ND	ND	ND	1
F-23	171214-41	ND	ND	ND	ND	ND	ND	ND	ND	1
F-24	171214-42	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: 12/16/2017

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	0.091	**91%**	0.092	**92%**	**1%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.091	**91%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171215-42	171214-20	171214-21	171214-22	171214-23	171214-24
Tetra-chloro-meta-xylene	50-150	112%	111%	100%	115%	111%	107%	102%
Decachlorobipneyl	50-150	89%	85%	80%	84%	81%	77%	136%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171214-25	171214-26	171214-27	171214-28	171214-29	171214-30	171214-31	171214-32
Tetra-chloro-meta-xylene	108%	113%	113%	110%	113%	112%	112%	106%
Decachlorobipneyl	83%	82%	82%	82%	85%	80%	83%	79%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171214-33	171214-34	171214-35	171214-36	171214-37	171214-38
Tetra-chloro-meta-xylene	115%	108%	110%	121%	114%	107%
Decachlorobipneyl	80%	80%	78%	80%	100%	84%

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	0.094	**94%**	0.080	**80%**	**16%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.078	**78%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171214-39	171214-40	171214-41	171214-42		
Tetra-chloro-meta-xylene	50-150	115%	117%	107%	116%	110%		
Decachlorobipneyl	50-150	91%	82%	83%	83%	76%		

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
8 1 Week (Standard)
Other:

Misc./PO# Franklin E.S. Source

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: EPA 8082 PCBs	COMMENTS
F-1	171214-20	12-11-17	1630	Bulk	1 ×80Z		Ice	X	Special Extraction
2	-21		1700		1			X	
3	-22		1705		1			X	
4	-23		1715		1			X	
5	-24		1726		1			X	
6	-25		1815		1			X	
7	-26		1817		1			X	
8	-27		1823		1			X	
9	-28		1850		1			X	
10	-29		1859		1			X	
FB 11	-30		1900		1			X	
FB 12	-31		1940		1			X	
FB 13	-32		2010		1 ×40Z			X	
FB 14	-33		2036		1			X	
15	-34		1947		1			X	

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

Project Contact: Cesar Rueda
Tel:
Fax:

Sampler's Signature:
Project Name/ID: Franklin E.S. Source

Relinquished by:	Received by:	Date & Time: 12/14/17 1340
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: 12-13-17

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:

Misc./PO# Franklin E.S. Source

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA 8082 PCBs	COMMENTS
F16	171214-35	12-11-17	2049	Bulk	1 4oz		Ice	X	
F-17	-36		2042		1			X	SPECIAL
F-18	-37		1955		1			X	ATTACH
F-19	-38		2025		1			X	
F-20	-39		2048		1			X	
F-21	-40		2105		1			X	
F-23	-41		2117		1			X	
F-24	-42		2125		1			X	

Analysis Required

Company Name: Alta Environmental	**Project Contact:** Cesar Rivalcoba	**Sampler's Signature:**
Address: 3777 Long Beach Blvd	**Tel:**	**Project Name/ID:** Franklin E.S. Source
City/State/Zip: Long Beach Ca	**Fax:**	

Relinquished by:	Received by:	Date & Time: 12/14/17 1310	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: 12-13-17

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 26, 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: **Franklin Source / SMSD-17-7261**
Lab I.D.: **171222-18 through -24**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on December 22, 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: **Franklin Source / SMSD-17-7261**

DATE SAMPLED:12/21/17
MATRIX:SOLID
REPORT TO:MR. CESAR RUVALCABA

DATE RECEIVED:12/22/17
DATE EXTRACTED:12/22&26/17
DATE ANALYZED:12/26/17
DATE REPORTED:12/26/17

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
1221-01	171222-18	ND	ND	ND	ND	ND	ND	ND	ND	1
1221-02	171222-19	ND	ND	ND	ND	ND	ND	ND	ND	1
1221-03	171222-20	ND	ND	ND	ND	ND	ND	ND	ND	1
1221-04	171222-21	ND	ND	ND	ND	ND	ND	ND	ND	1
1221-05	171222-22	ND	ND	ND	ND	ND	ND	ND	ND	1
1221-06	171222-23	ND	ND	ND	ND	ND	ND	ND	ND	2^
1221-07	171222-24	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
^ = Actual Detection Limit raised due to limited sample quantity
* = 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: 12/26/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171226-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.079	**79%**	0.084	**84%**	**6%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.105	**105%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171222-18	171222-19	171222-20	171222-21	171222-22	171222-23
Tetra-chloro-meta-xylene	50-150	135%	148%	114%	106%	138%	116%	134%
Decachlorobipneyl	50-150	72%	96%	67%	57%	84%	65%	73%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171222-24	171222-25	171221-4	171221-5	171221-7	171221-8	171221-9	171221-10
Tetra-chloro-meta-xylene	135%	133%	118%	105%	126%	111%	124%	125%
Decachlorobipneyl	71%	74%	77%	115%	108%	108%	146%	81%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171221-11					
Tetra-chloro-meta-xylene	129%					
Decachlorobipneyl	77%					

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

RUSH

Misc./PO# SPECIAL EXTRACTION

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: EPA 8032	COMMENTS
1221-01	171222-18	12/21/17	1545	Bulk	8		ICE	X	
1221-02	-17		1630					X	
1221-03	-20		1655					X	
1221-04	-21		1740					X	
1221-05	-22		1835					X	
1221-06	-23		1920					X	
1221-07	-24		2100					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: Franklin Source
SMSO-17-7261

Relinquished by:	12/21/17 2200	Received by:	Date & Time: 12/22/17 0700
Relinquished by:		Received by:	Date & Time: 12/22/17 1042
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: 12/21/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

eurofins | Calscience

WORK ORDER NUMBER: 17-12-1365

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Alta Environmental

Client Project Name: Franklin E.S.

Attention: Cesar Ruvalcaba
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Vikas Patel

Approved for release on 12/18/2017 by:
Vikas Patel
Project Manager

ResultLink ▸

Email your PM ▸

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Contents

Client Project Name: Franklin E.S.
Work Order Number: 17-12-1365

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Work Order Narrative

Work Order: 17-12-1365 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 12/15/17. They were assigned to Work Order 17-12-1365.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Return to Contents

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Sample Summary

Client:	Alta Environmental	Work Order:	17-12-1365
	3777 Long Beach Blvd., Annex Building	Project Name:	Franklin E.S.
	Long Beach, CA 90802-3335	PO Number:	
		Date/Time Received:	12/15/17 17:05
		Number of Containers:	1
Attn:	Cesar Ruvalcaba		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
F-22	17-12-1365-1	12/11/17 21:06	1	Solid

Return to Contents

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Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Project: Franklin E.S.

Date Received: 12/15/17
Work Order: 17-12-1365
Preparation: EPA 3540C
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
F-22	**17-12-1365-1-A**	**12/11/17 21:06**	**Solid**	**GC 63**	**12/15/17**	**12/16/17 15:03**	**171215L11**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	1000	1.00	
Aroclor-1221	ND	1000	1.00	
Aroclor-1232	ND	1000	1.00	
Aroclor-1242	ND	1000	1.00	
Aroclor-1248	ND	1000	1.00	
Aroclor-1254	ND	1000	1.00	
Aroclor-1260	ND	1000	1.00	
Aroclor-1262	ND	1000	1.00	
Aroclor-1268	ND	1000	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	113	24-168	
2,4,5,6-Tetrachloro-m-Xylene	86	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-4486**	**N/A**	**Solid**	**GC 63**	**12/15/17**	**12/16/17 14:08**	**171215L11**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	93	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - LCS/LCSD

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Project: Franklin E.S.

Date Received: 12/15/17
Work Order: 17-12-1365
Preparation: EPA 3540C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-4486	**LCS**	**Solid**	**GC 63**	**12/15/17**	**12/16/17 14:26**	**171215L11**
099-12-535-4486	**LCSD**	**Solid**	**GC 63**	**12/15/17**	**12/16/17 14:44**	**171215L11**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	100.0	90.50	90	90.00	90	50-135	1	0-20	
Aroclor-1260	100.0	83.50	84	83.50	84	50-135	0	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 17-12-1365 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8082	EPA 3540C	1028	GC 63	3

Return to Contents

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Glossary of Terms and Qualifiers

Work Order: 17-12-1365 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Return to Contents

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **17-12-1365**

DATE: 12-15-17

PAGE: 1 OF 1

LABORATORY CLIENT: **Alta Environmental**

ADDRESS: 3777 Long Beach Boulevard, Annex Building

CITY: Long Beach STATE: CA ZIP: 90280

TEL: 562-495-5777 E-MAIL: cesar.ruvalcaba@altaenviron.com

CLIENT PROJECT NAME / NUMBER: Franklin E.S.

P.O. NO.:

PROJECT CONTACT: Cesar Ruvalcaba

SAMPLER(S): (PRINT) Fabian Ruvalcaba

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"): ☒ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ~~☒ 5 DAYS~~ ☐ STANDARD

☐ COELT EDF

GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS:

Use Soxhlet Extraction, US EPA Method 3540C Aroclors

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) GRO	TPH(d) DRO	TPH C6-C36 C6-C44	TPH	BTEX / MTBE 8260	VOCs (8260)	Oxygenates (8260)	Prep (5035) En Core Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs 8270 8270 SIM	T22 Metals 6010/747X 6020/747X	Cr(VI) 7196 7199 218.6	use Soxhlet Extraction US EPA 3540 C for Aroclors			
	F-22	12-11-17	2106	Bulk	1		X												X				X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
12-15-17		12/15/17	1705
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

Return to Contents

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WORK ORDER NUMBER: 17-12-1365

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Alta Env'l.

DATE: 12/15/2017

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.4°C); Temperature (w/o CF): 5.9 °C (w/ CF): 5.5 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: BG

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: BG

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: BG

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☑ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☑ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: BG

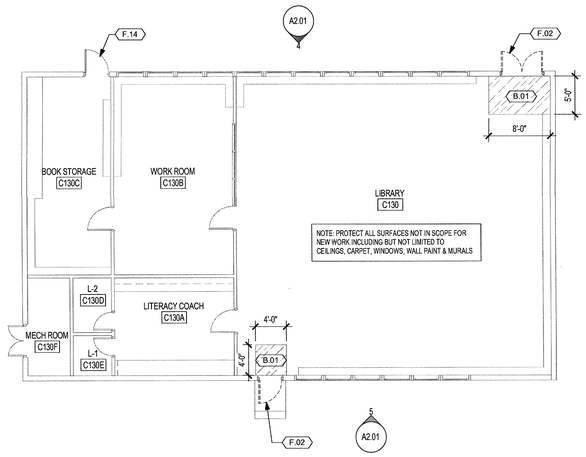
Reviewed by: 1017

Return to Contents

Appendix C

Sample Location Maps

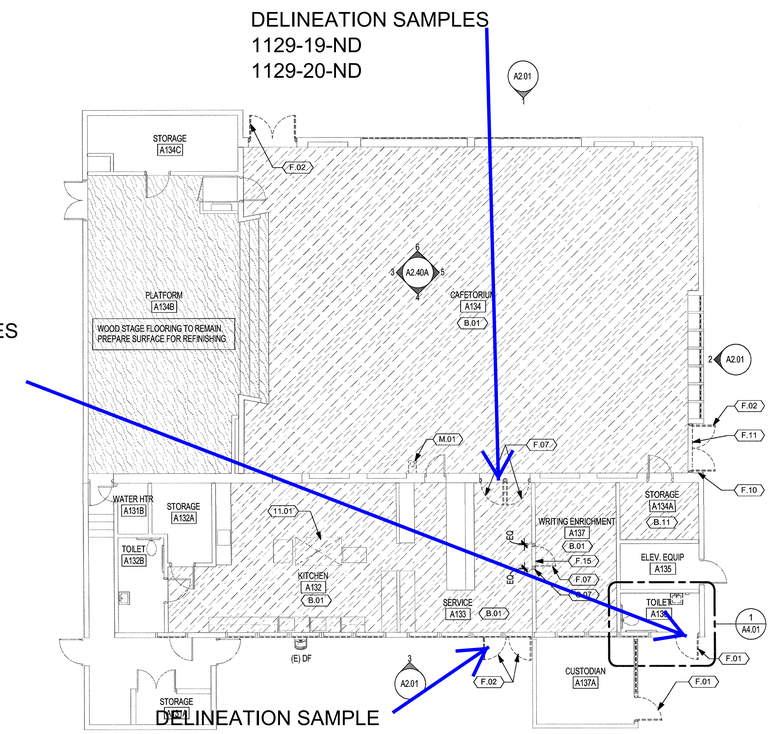
DELINEATION AND SOURCE SAMPLE LOCATION MAP
PREPARED BY ALTA ENVIRONMENTAL
JANUARY, 2018



2 DEMO PLAN - BUILDING C
1/8" = 1'-0"

DELINEATION SAMPLES
1129-23-ND
1129-26-ND

SOURCE SAMPLE
F1-ND



1 DEMO PLAN - BUILDING A
1/8" = 1'-0"

SMMUSD
SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT
2828 4th Street, Santa Monica, CA 90405
310.399.5865

dsk architects
926 Natoma Street, Suite 200, San Francisco, CA 94103
415.839.6418 / Fax 415.839.7584
1539 Sawtelle Blvd, Suite 14, Los Angeles, CA 90025
310.254.2263

LICENSED ARCHITECT
JEFFERY M. FULLER
No. C-31652
Exp. 04-30-19
STATE OF CALIFORNIA

CONSULTANT

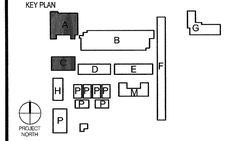
PROJECT NAME
FRANKLIN E.S. WPFD, FIRE ALARM, AND HVAC PROJECT

FACILITY INFO
FRANKLIN ELEMENTARY SCHOOL
2400 Montana Ave, Santa Monica, CA 90403

AGENCY STAMP

FILE NUMBER: 19-96
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
03-118308
ACS FLS SSS
Date: NOV 14 2017

KEY PLAN



PROJECT ISSUE DATE: 2017/11/14

DATE	NO.	REVISIONS
11/14/2017		DSA BACKCHECK SET

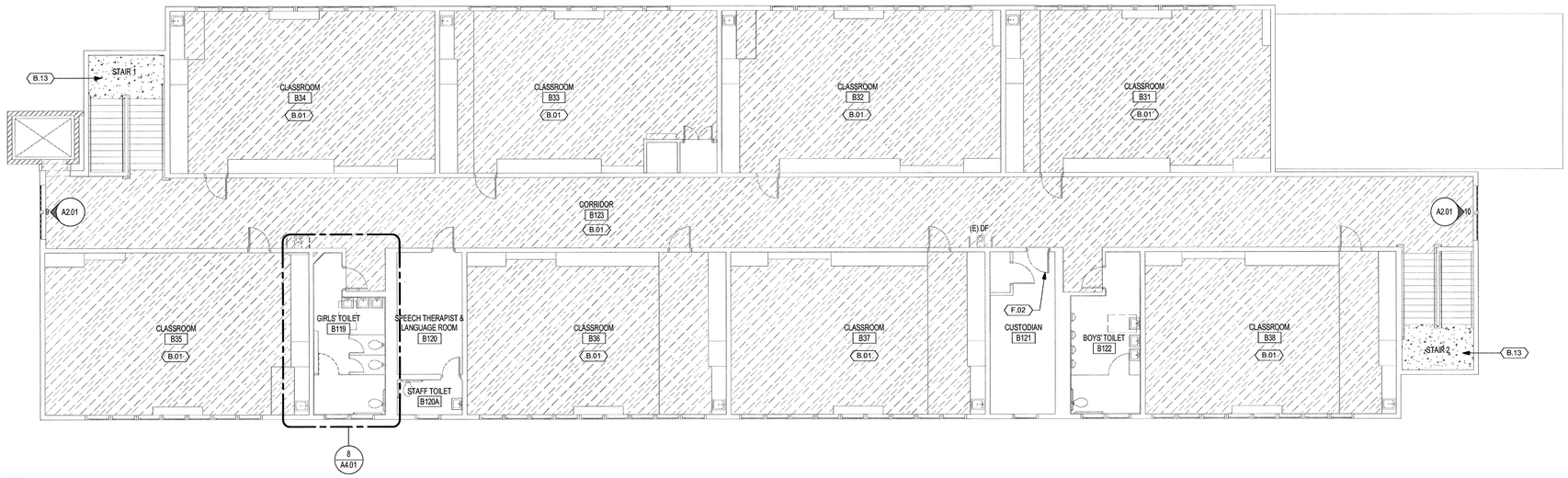
SHEET TITLE
DEMO PLANS - BLDG A & C

DSK JOB NO: 17011

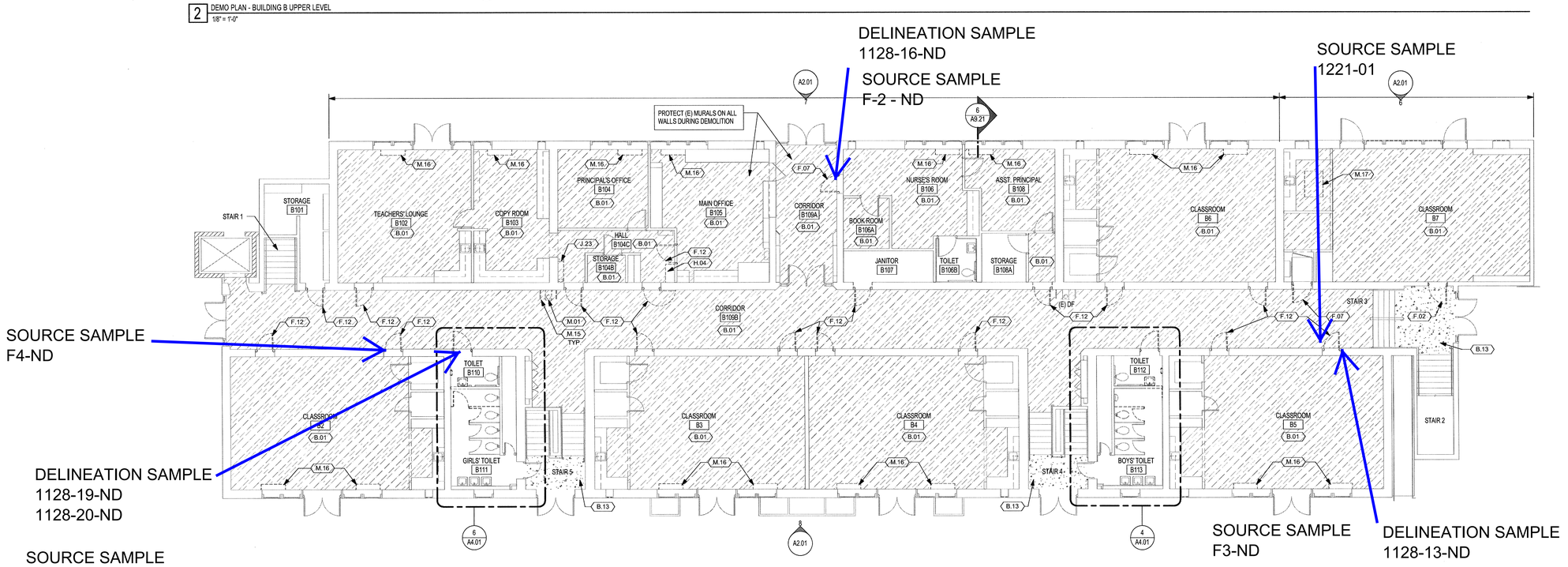
SHEET NUMBER
A2.00A

DRAFTER: Author PM: JL REVIEWER: JF

DELINEATION AND SOURCE SAMPLE LOCATION MAP
PREPARED BY ALTA ENVIRONMENTAL
JANUARY, 2018



2 DEMO PLAN - BUILDING B UPPER LEVEL
1/8" = 1'-0"



1 DEMO PLAN - BUILDING B MAIN LEVEL
1/8" = 1'-0"

SMMUSD
SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT
2826 4th Street, Santa Monica, CA 90405
310.399.5865

dsk architects
926 Natoma Street, Suite 200, San Francisco, CA 94103
415.839.6418 / Fax 415.839.7584
1539 Sawtelle Blvd, Suite 14, Los Angeles, CA 90025
310.254.2263

LICENSED ARCHITECT JEFFERY M. FULLER No. C-31652 Exp. 04-30-19 STATE OF CALIFORNIA

CONSULTANT

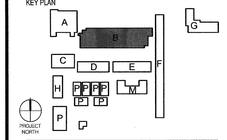
PROJECT NAME
FRANKLIN E.S. WPFD, FIRE ALARM, AND HVAC PROJECT

FACILITY INFO
FRANKLIN ELEMENTARY SCHOOL
2400 Montana Ave, Santa Monica, CA 90403

AGENCY STAMP

FILE NUMBER: 19-96
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
03-118308
ACS FLS SSS
Date: NOV 14 2017

KEY PLAN



PROJECT ISSUE DATE: 2017/11/14

DATE	NO.	REVISIONS
11/14/2017		DSA BACKCHECK SET

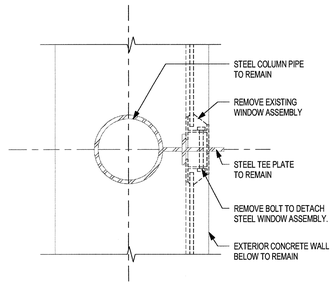
SHEET TITLE
DEMO PLANS - BLDG B

DSK JOB NO: 17011

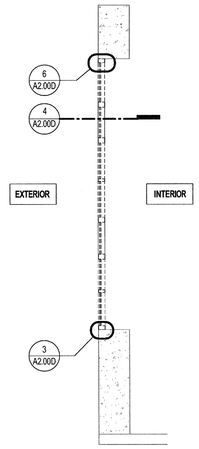
SHEET NUMBER
A2.00B

DRAFTER: Author PM: JL REVIEWER: JF

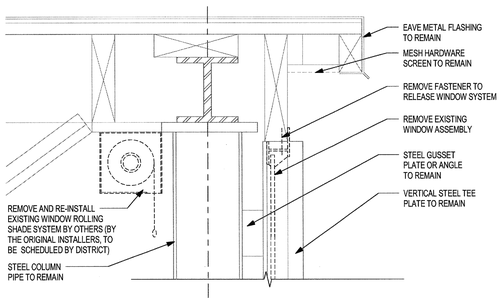
DELINEATION AND SOURCE SAMPLE LOCATION MAP
PREPARED BY ALTA ENVIRONMENTAL
JANUARY, 2018



4 DEMOLITION MULLION WINDOW DETAIL - BLDG D
3" = 1'-0"



5 BLDG D - NORTH WINDOW WALL SECTION
1/2" = 1'-0"

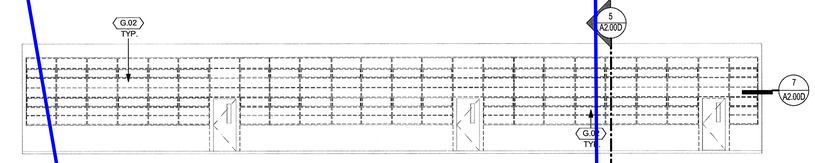


6 DEMOLITION HEAD WINDOW DETAIL - BLDG D
3" = 1'-0"

DELINEATION SAMPLE
1129-1-ND
1129-4-ND
1129-7-ND
1129-10-ND

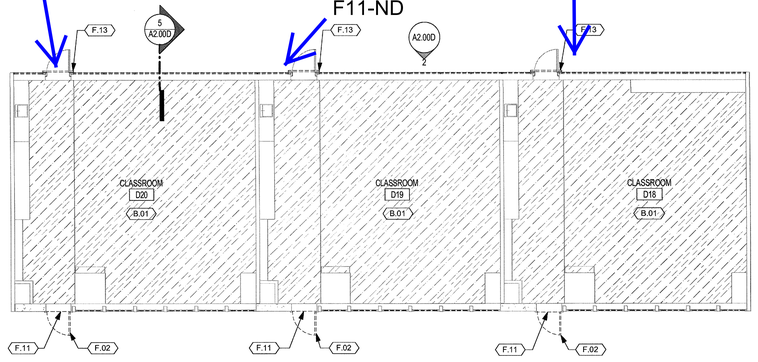
SOURCE SAMPLE
F6-ND

SOURCE SAMPLE
F7-ND

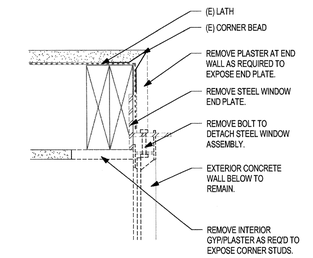


2 DEMO WINDOW / GLAZING ELEVATION - BLDG D NORTH
1/8" = 1'-0"

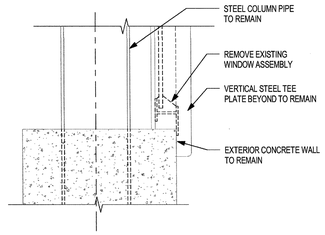
SOURCE SAMPLE
F11-ND



1 DEMO PLAN - BUILDING D
1/8" = 1'-0"



7 DEMO DETAIL WINDOW END WALL
3" = 1'-0"



3 DEMOLITION SILL WINDOW DETAIL - BLDG D
3" = 1'-0"

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LICENSED ARCHITECT
JEFFERY M. FULLER
No. C-31652
Exp. 04-30-19
STATE OF CALIFORNIA

CONSULTANT

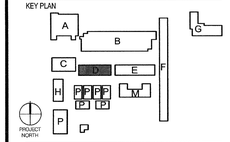
PROJECT NAME
FRANKLIN E.S. WPFD, FIRE ALARM, AND HVAC PROJECT

FACILITY INFO
FRANKLIN ELEMENTARY SCHOOL
2400 Montana Ave, Santa Monica, CA 90403

AGENCY STAMP

FILE NUMBER: 19-96
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
03-118308
ACS FLS SSS
Date: NOV 14 2017

KEY PLAN



PROJECT ISSUE DATE: 2017/11/14

DATE	NO.	REVISIONS
11/14/2017		DSA BACKCHECK SET

SHEET TITLE
DSK JOB NO: 17011
DEMO PLANS, SECTIONS, ELEVATIONS, AND DETAILS - BLDG D

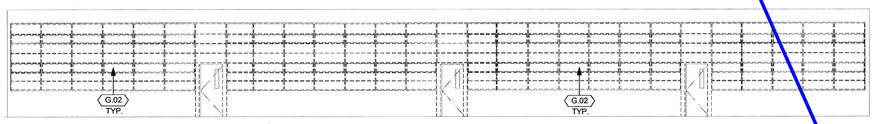
SHEET NUMBER
A2.00D

DRAFTER: Author PM: JL REVIEWER: JF

DELINEATION AND SOURCE SAMPLE LOCATION MAP
PREPARED BY ALTA ENVIRONMENTAL
JANUARY, 2018

DELINEATION SAMPLE
1128-1-ND
1128-4-ND
1128-7-ND
1128-10-ND

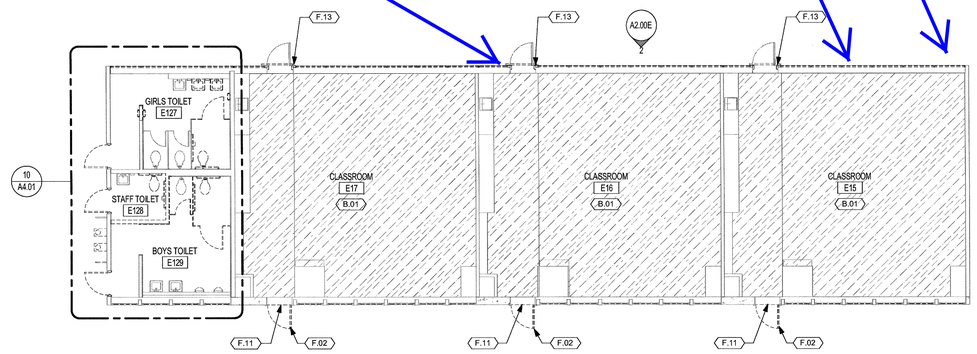
SOURCE SAMPLE
F8-ND



2 DEMO WINDOW / GLAZING ELEVATION - BLDG E NORTH
1/8" = 1'-0"

SOURCE SAMPLE
F10-ND

SOURCE SAMPLE
F9-ND



1 DEMO PLAN - BUILDING E
1/8" = 1'-0"

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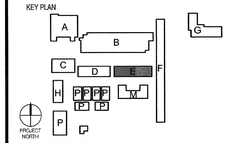
KEY PLAN



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11/14/2017		DSA BACKCHECK SET

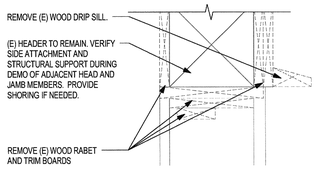
SHEET TITLE
DEMO PLANS, SECTIONS, ELEVATIONS, AND DETAILS - BLDG E

DSK JOB NO: 17011

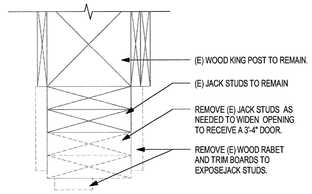
SHEET NUMBER
A2.00E

DRAFTER: Author PM: JL REVIEWER: JF

DELINEATION AND SOURCE SAMPLE LOCATION MAP
PREPARED BY ALTA ENVIRONMENTAL
JANUARY, 2018



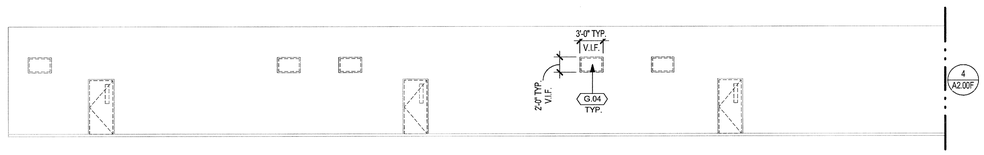
SECTION DETAIL @ DOOR HEAD



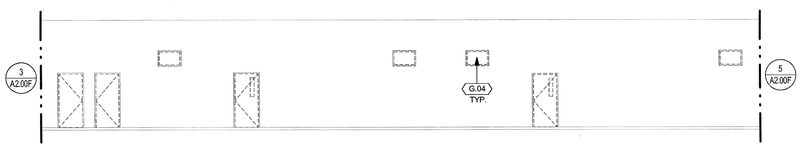
PREPARE AREA TO RECEIVE NEW DOOR FRAME. FOR CONTEXT, SEE DETAIL:

SECTION DETAIL @ DOOR JAMB

6 DEMO DETAIL - BLDG F PATIO DOOR HEAD AND JAMB
3" = 1'-0"



3 DEMO ELEVATION - BLDG F WEST CR 8 - 10
1/8" = 1'-0"



4 DEMO ELEVATION - BLDG F WEST CR 11 - 12
1/8" = 1'-0"

5 DEMO ELEVATION - BLDG F WEST CR 13 - 14
1/8" = 1'-0"

DELINEATION SAMPLES
1130-7-ND
1130-10-ND

SOURCE SAMPLES
F-14-ND
F17-10.2 PPM

SOURCE SAMPLES
F-13-ND
F-16-ND

DELINEATION SAMPLE
1130-1-ND
1130-4-ND

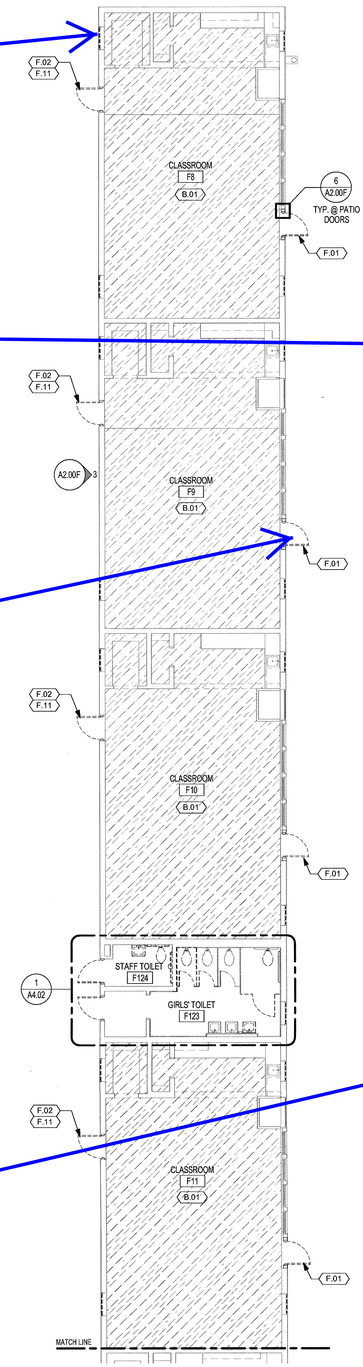
SOURCE SAMPLE
F20-ND

DELINEATION SAMPLES
1130-13-ND
1130-16-ND

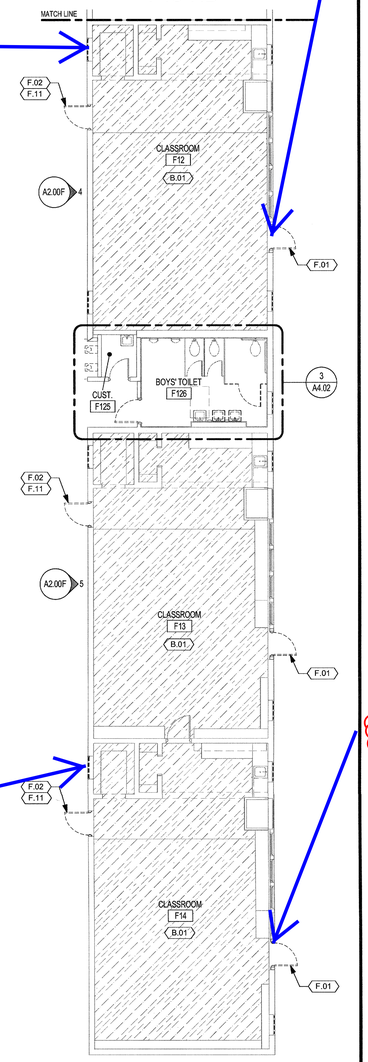
SOURCE SAMPLES
F-12-ND
F-15-505 PPM

SOURCE SAMPLE
F19-ND

SOURCE SAMPLE
F18-907 PPM



2 DEMO PLAN - BUILDING F (NORTH END)
1/8" = 1'-0"



1 DEMO PLAN - BUILDING F (SOUTH END)
1/8" = 1'-0"

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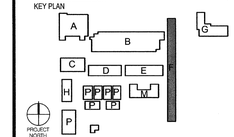
KEY PLAN



PROJECT ISSUE DATE: 2017/11/14

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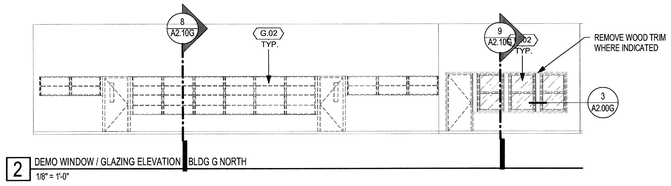
SHEET TITLE
DEMO PLANS, SECTIONS, ELEVATIONS, AND DETAILS - BLDG F

DSK JOB NO: 17011

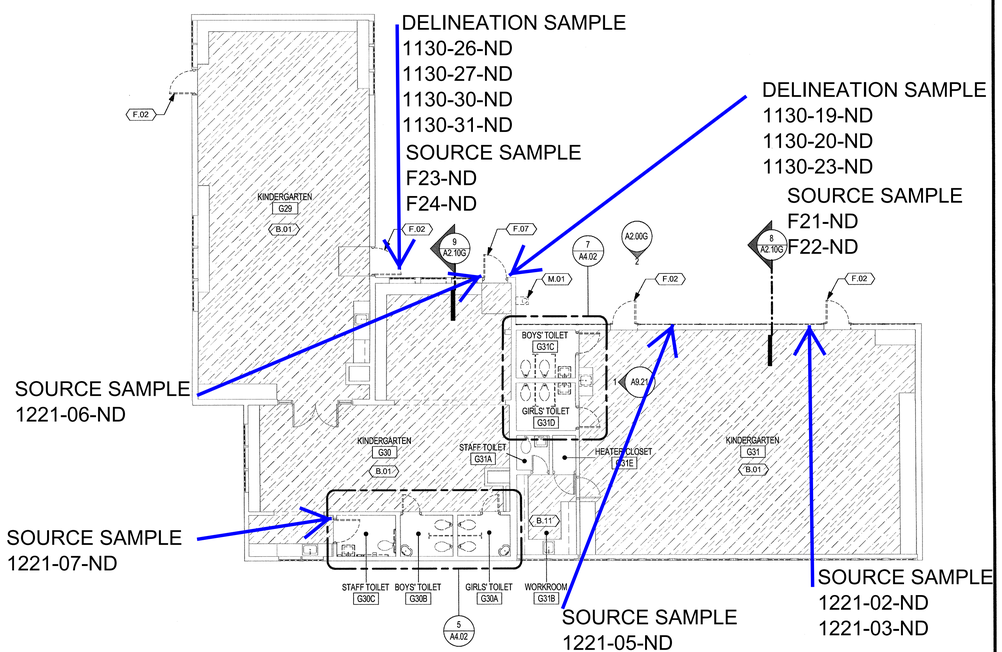
SHEET NUMBER
A2.00F

DRAFTER: Author PM: JL REVIEWER: JF

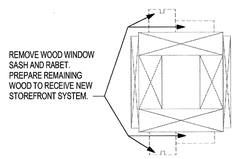
DELINEATION AND SOURCE SAMPLE LOCATION MAP
PREPARED BY ALTA ENVIRONMENTAL
JANUARY, 2018



2 DEMO WINDOW / GLAZING ELEVATION - BLDG G NORTH
1/8" = 1'-0"



1 DEMO PLAN - BUILDING G
1/8" = 1'-0"



3 BLDG G WOOD MULLION DEMO DETAIL
3" = 1'-0"

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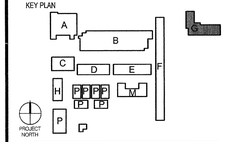
KEY PLAN



PROJECT ISSUE DATE: 2017/11/14

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11/14/2017		DSA BACKCHECK SET

SHEET TITLE — DSK JOB NO: 17011
DEMO PLANS, SECTIONS, ELEVATIONS, AND DETAILS - BLDG G

SHEET NUMBER
A2.00G

DRAFTER: Author — PM: JL — REVIEWER: JF

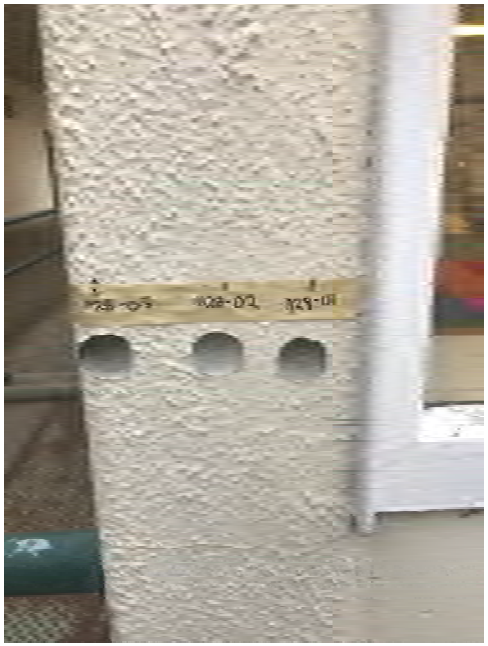
Appendix D

Photographs

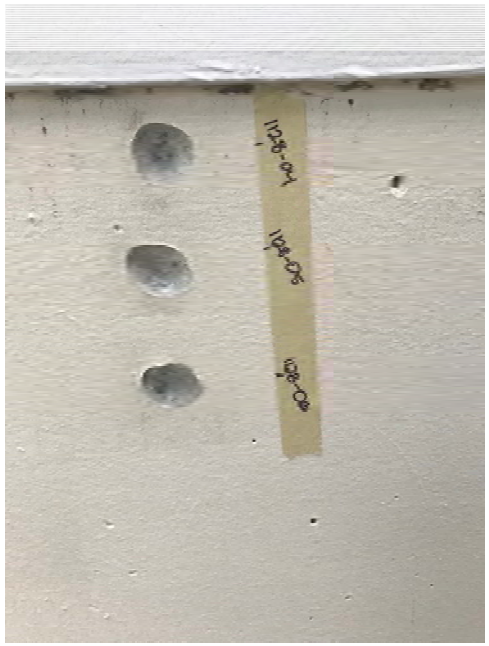
DELINEATION SAMPLE PHOTOS

Delineation Sampling
Franklin Elementary School – Building E

1128-1



1128-4



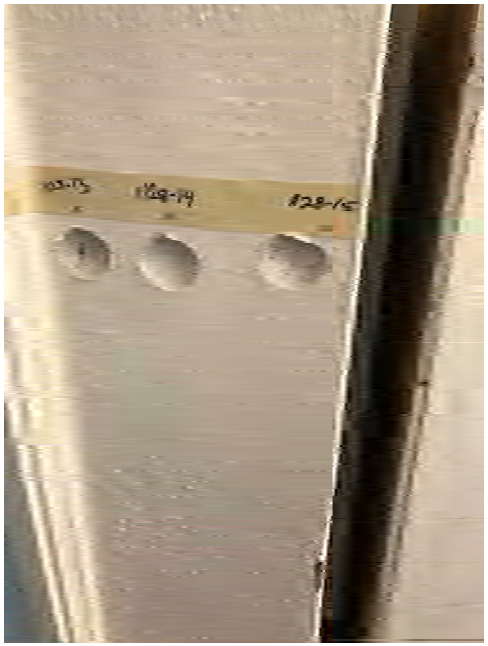
Delineation Sampling
Franklin Elementary School – Building E

1128-7

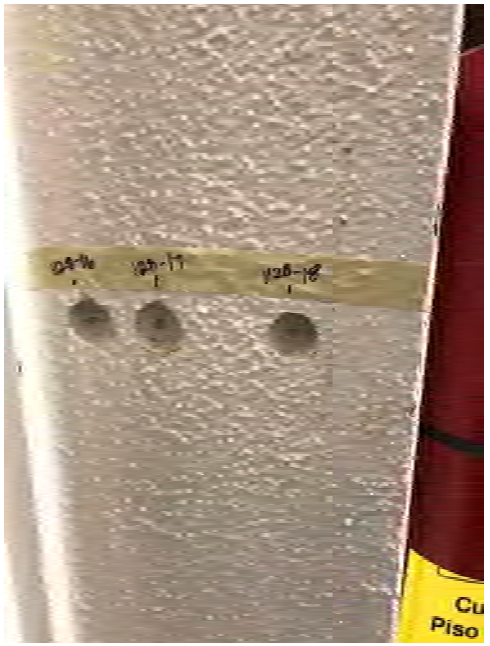
1128-10

Delineation Sampling
Franklin Elementary School – Building B

1128-13

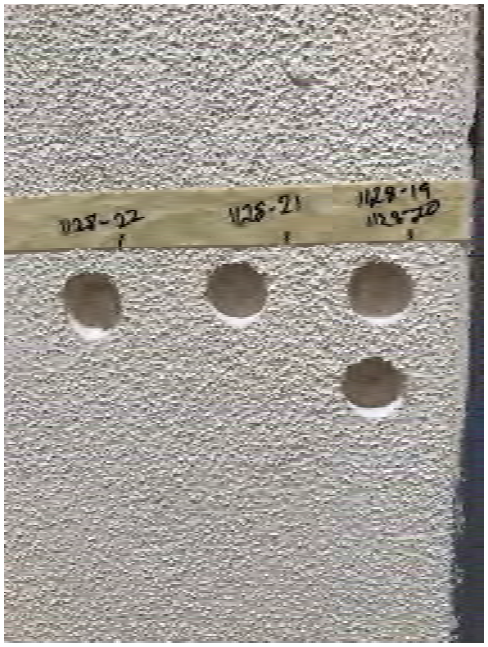


1128-16



Delineation Sampling
Franklin Elementary School – Building B

1128-19 AND 1128-20



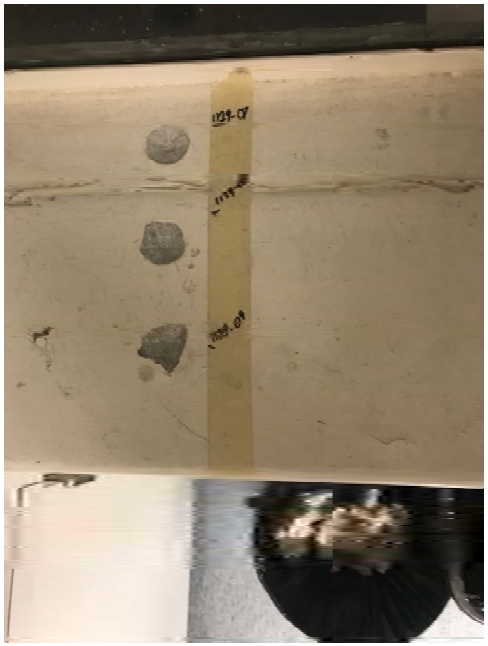
Delineation Sampling
Franklin Elementary School – Building D

1129-1

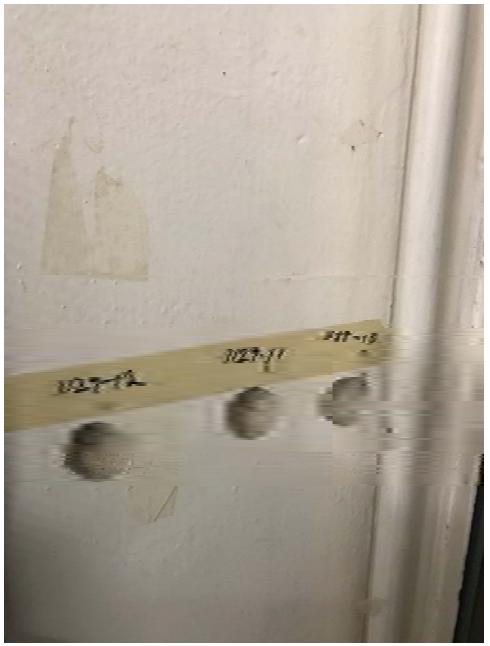
1129-4

Delineation Sampling
Franklin Elementary School – Building D

1129-7



1129-10



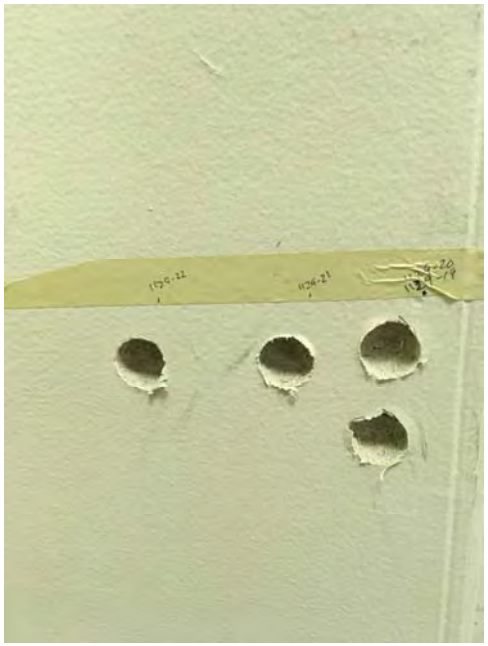
Delineation Sampling
Franklin Elementary School – Building A

1129-13

1129-16

Delineation Sampling
Franklin Elementary School – Building A

1129-19 AND 1129-20



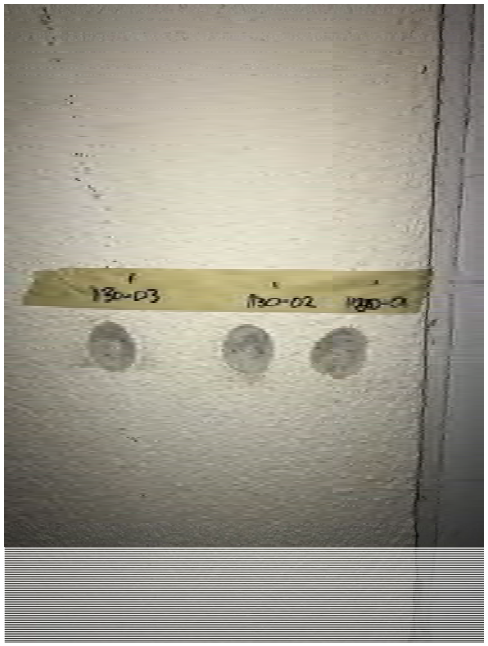
Delineation Sampling
Franklin Elementary School – Building A

1129-23

1129-26

Delineation Sampling
Franklin Elementary School – Building F

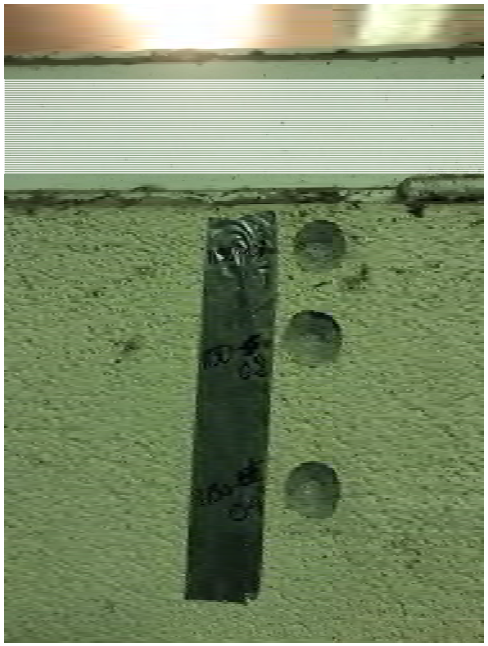
1130-1



1130-4

Delineation Sampling
Franklin Elementary School – Building F

1130-07



1130-10

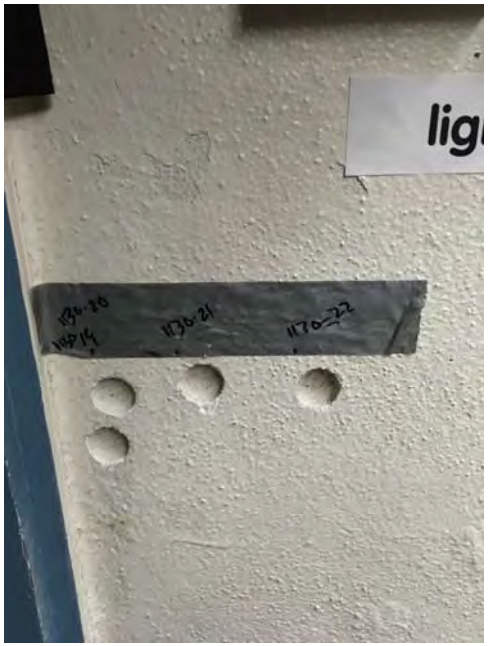
Delineation Sampling
Franklin Elementary School – Building F

1130-13

1130-16

Delineation Sampling
Franklin Elementary School – Building G

1130-19 AND 1130-20



Delineation Sampling
Franklin Elementary School – Building G

1130-23

1130-26

Delineation Sampling
Franklin Elementary School – Building G

1130-27

1130-30

SOURCE SAMPLE PHOTOS

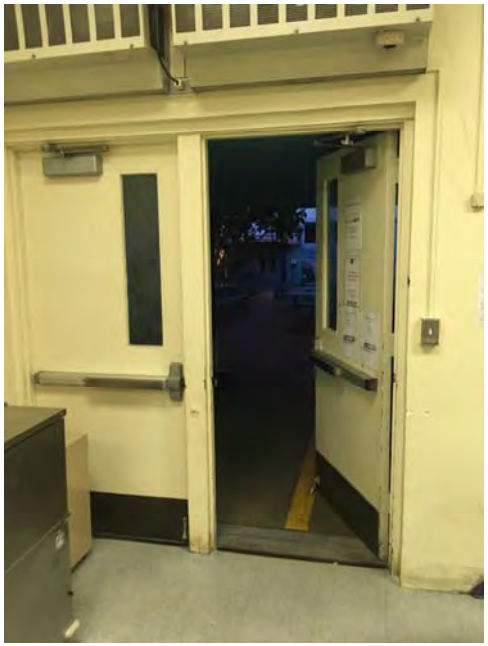
Source Sampling
Franklin Elementary School – Building A

F-1

F-2

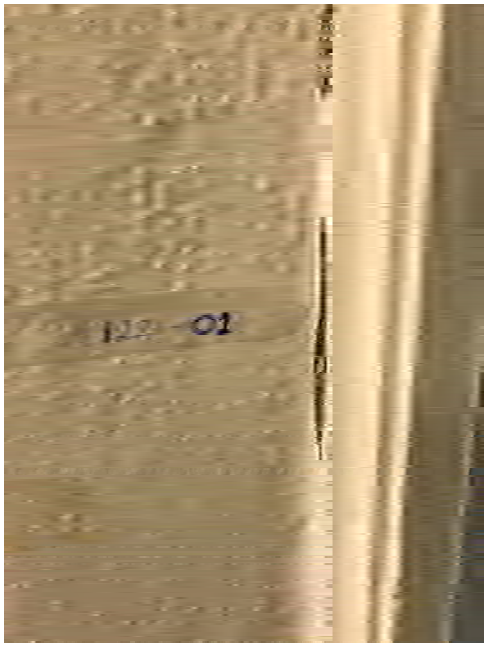
Source Sampling
Franklin Elementary School – Building A

No caulking was observed on the kitchen south double doors



Source Sampling
Franklin Elementary School – Building A

1221-01



Source Sampling
Franklin Elementary School – Building B

F-3

F-4

Source Sampling
Franklin Elementary School – Building B

F-5

Source Sampling
Franklin Elementary School – Building D

F-6

F-7

Source Sampling
Franklin Elementary School – Building D

F-11

Source Sampling
Franklin Elementary School – Building E

F-8

F-9

Source Sampling
Franklin Elementary School – Building E

F-10

Source Sampling
Franklin Elementary School – Building F

F-12

F-13

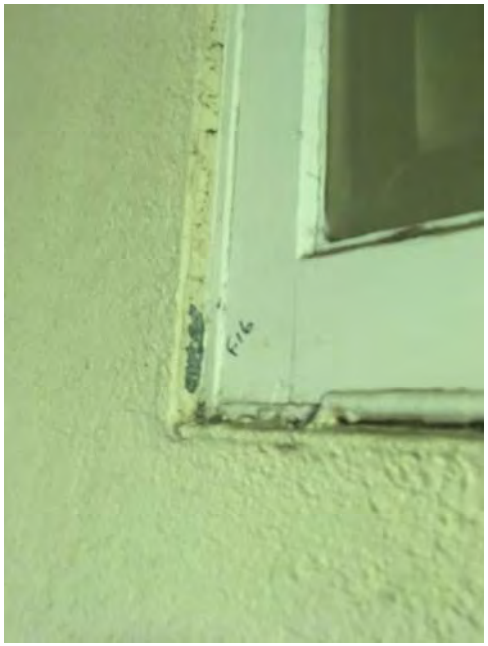
Source Sampling
Franklin Elementary School – Building F

F-14

F-15

Source Sampling
Franklin Elementary School – Building F

F-16

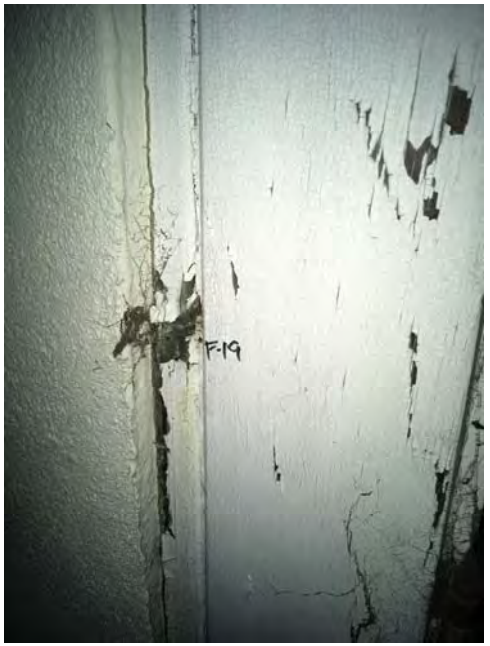


F-17

Source Sampling
Franklin Elementary School – Building F

F-18

F-19



Source Sampling
Franklin Elementary School – Building F

F-20

Source Sampling
Franklin Elementary School – Building G

F-21 AND F-22

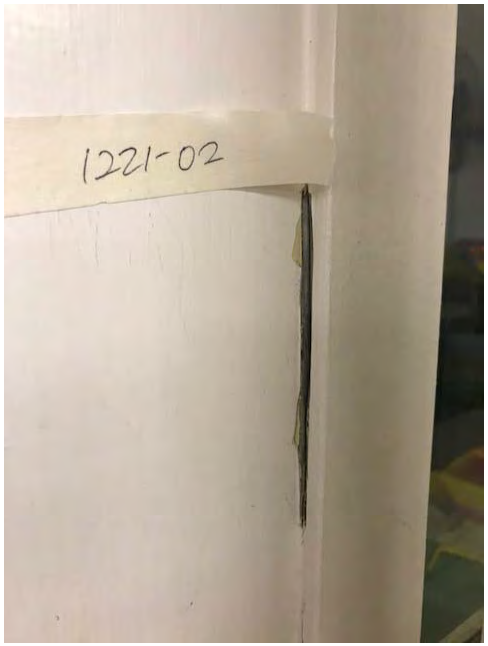
Source Sampling
Franklin Elementary School – Building G

F-23

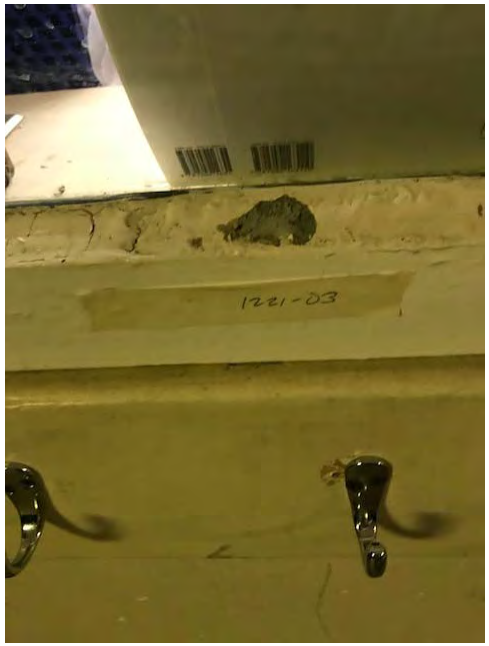
F-24

Source Sampling
Franklin Elementary School – Building G

1221-02

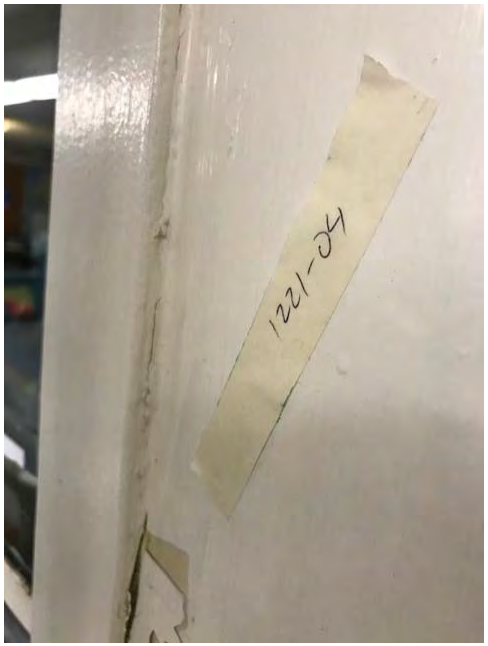


1221-03

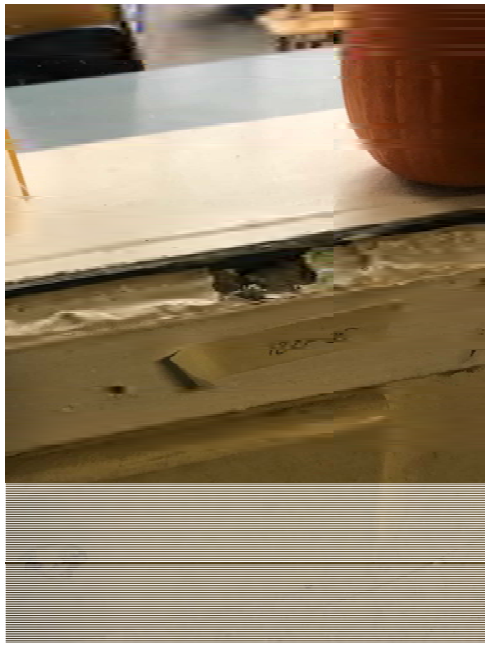


Source Sampling
Franklin Elementary School – Building G

1221-04



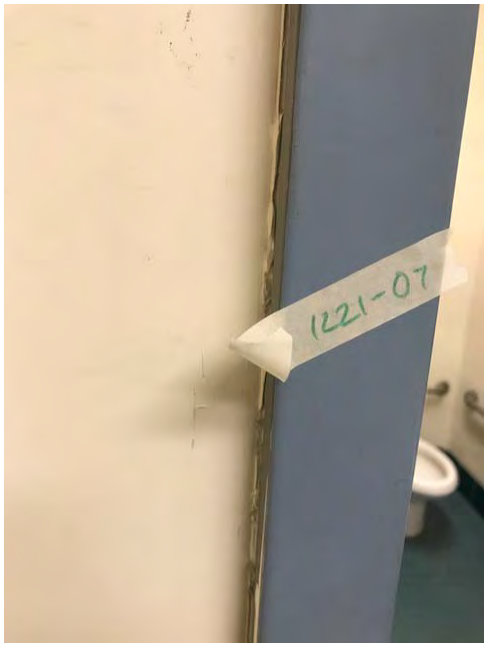
1221-05



Source Sampling
Franklin Elementary School – Building G

1221-06

1221-07



Delineation Sampling
Franklin Elementary School – Building G

1130-31