

PCB REMOVAL/REMEDIATION PROJECT RECORD

Window Removal Building G (Library) **Rogers Elementary School** 2401 14th Street Santa Monica, California 90404

Prepared for:

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

Project No.: SMSD-17-6685 Date: February 22, 2018

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

EXECUTIVE SUMMARY

Alta Environmental (Alta) conducted monitoring services during the removal of window frames containing painted white cementitious paneling containing polychlorinated biphenyls (PCBs) from Building G (Library) at Rogers Elementary School located at 2401 14th Street, Santa Monica, California 90404.

During this project, all identified PCB Bulk Product Waste (painted cementitious paneling) was removed, except for a small section of windows located on the north-west corner of Building G because removal of this material was not feasible due to access restrictions. Removal is planned to be completed during summer 2018.

During the project, all particulate sampling results were below the action level established for this project. There were no documented exceedances.

Following removal and remediation work activities, the areas were inspected by Air Clean Environmental, Inc., and an Alta representative; each area was found to be acceptably clean. No visible dust and debris were observed.

Following the removal and remediation work, surface wipe samples were collected. Results of the surface wipe samples were reported as "not detected" at the laboratory reporting limit. Furthermore, surface wipe and air samples were collected following restoration of the work areas and prior to re-occupancy of the building. The results of this sampling were also reported as not-detected by the laboratory reporting limit.

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REPORTED: February 22, 2018

 CLIENT:
 Santa Monica-Malibu Unified School District

 2828 4th Street
 Santa Monica, California 90405

 ATTENTION:
 Mr. Chris Emmett

PROJECT NO.:

SMSD-17-6685

REF: PCB Removal / Remediation Project Record Building G (Library) Roger Elementary School 2401 14th Street Santa Monica, California 90404

1.0 PROJECT BACKGROUND

Alta Environmental (Alta) conducted monitoring services during the removal of window frames containing painted white cementitious paneling containing polychlorinated biphenyls (PCBs) from Building G (Library) at Rogers Elementary School located at 2401 14th Street, Santa Monica, California 90404.

2.0 ALTA PROJECT SCOPE OF SERVICES

At the request of the District, Alta Environmental (Alta) provided the following services during the removal/remediation of PCBs prior to the demolition:

- Reviewed the contractor PCB removal plan which included:
 - Work area isolation and engineering controls
 - Removal methods
 - Worker protection
 - Waste disposal
- Contractor observation to document project activities including the contractor's adherence to the requirements as outlined in "Specific PCB Removal/Remediation Plan-Revised, Window and Door Replacement Project, Buildings G at Rogers Elementary School (Alta Project No. SMSD-17-6685, Revised: May 16, 2017).
- Particulate sampling using real-time monitors at fence line perimeters of work area,
- Confirmation final visual inspection to ensure that all PCBs designated for removal, including associated dust and debris was removed,
- Pre-occupancy wipe and air sampling and laboratory analysis.

3.0 PERIMETER SAMPLING/AIR MONITORING-RESPIRABLE AIRBORNE PARTICULATES:

Airborne particulate sampling was conducted using MIE pDR Model 1000 battery operated, direct reading data logging instruments. The instruments were placed (at breathing zone height-approximately five feet above ground level) at exterior perimeter locations of the site in upwind and downwind locations.

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4.0 REGULATED WORK AREA:

The work area was isolated by establishing a containment demarcating the PCB work area with warning signs, as required by Cal/OSHA posted at the entrance to the work area to restrict access to authorized persons conducting or monitoring the remediation work. The work area was further isolated by installing critical and perimeter barriers constructed with fire retardant polyethylene sheeting.

5.0 ENGINEERING CONTROLS:

The containment was constructed to minimize airborne dust from migrating outside the regulated work area where PCB removal took place. To minimize dust migration out of the work area, a temporary negative air pressure differential of -0.02 inches/water column (in/WC) was established in the work area and continuously monitored with a recording manometer. The air pressure differential was established using a high-efficiency particulate air (HEPA) filtering fan unit that was exhausted outside the work area and discharged outside the building. Additionally, all dust generated by the remediation activities was collected using HEPA vacuum cleaners.

6.0 WORKER PROTECTION:

Workers engaged in the PCB remediation activities used NIOSH-approved half-face air-purifying respirators with HEPA (P100) cartridges and disposable non-porous protective overalls with eye, hand, foot and hearing protection.

7.0 WORKER DECONTAMINATION:

A worker decontamination unit, integral to the building containment, was placed at the entrance to the regulated work area and consisted of a three-stages which included a "dirty" room, shower and clean room. The decontamination facility was equipped with soap and towels.

8.0 EQUIPMENT DECONTAMINATION:

Equipment used for PCB removal/remediation was wet wiped and vacuumed with HEPA equipped vacuums and visually inspected prior to removal from the work area. HEPA filters from the air filtration devices used to establish the temporary air pressure differential were removed inside the containment, and the interior of the unit (filter compartment) was wet wiped and vacuumed. All equipment, including tools, vacuums, and air filtration devices were visually inspected prior to removal from the work area.

9.0 POST REMEDIATION CONTAINMENT INSPECTION AND CLEARANCE

Following the removal of identified PCB containing materials, a representative of ACE and Alta conducted a final visual inspection to assess the final cleanliness of the work area. After the area was found to be acceptably clean, Alta conducted surface wipe sampling.

A total of two samples, one smooth floor and one window sill were collected in each containment following remediation work. The containment work area was released to the contractor for teardown as the results of the wipe samples met the comparison threshold of 1 microgram per 100 square centimeters (μ g/100 cm²). The comparison threshold of 1 μ g/100 cm² has been established by the USEPA Region XI

Wipe samples were collected on gauze pads using the Standard Wipe Test described in 40 CFR 761.123 and were analyzed using USEPA Method 8082 for Aroclors.

10.0 CONFIRMATION AIR AND WIPE SAMPLING PRIOR TO RE-OCCUPANCY:

Following the completion of the project and after the areas were restored for normal occupancy, confirmation wipe and air sampling was conducted by Alta.

10.1 Wipe Sampling

Surface wipe samples, at least one sample per room was collected on smooth floor and window sill, using pads (or similar sampling media) using the Standard Wipe Test described in 40 CFR 761.123 and were analyzed using USEPA Method 8082 for Aroclors.

The results of these samples were reported as non-detected at the laboratory detection limit of $1\mu g/100$ cm². A comparison threshold of 1 microgram per 100 square centimeters ($1\mu g/100$ cm²), which is the EPA Region XI their health-based benchmark, was met prior to re-occupancy of the building.

10.2 Air Sampling

Air samples were collected without a pre-filter and will be analysed for Aroclors using USEPA Method TO-10A. Each air sample was collected on a polyurethane foam cartridge with a constant flow rate of approximately 5 liters per minute.

In each room, one air sample was collected over 24 hours with the doors and windows closed, the HVAC system turned off, and the lights turned on.

Air sample results met the criteria as outlined in the USEPA's document Exposure Levels for Evaluating Polychlorinated Biphenyls (PCBs) in Indoor School Air . <u>https://www.epa.gov/pcbs/exposure-levels-evaluating-polychlorinated-biphenyls-pcbs-indoor-school-air</u>. The criteria are as follows:

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

11.0 QUALITY CONTROL:

Engineering controls, removal methods, clearance protocol including sample collection, sample extraction and analytical methodology used to complete this project were completed according to the Specific PCB Removal/Remediation Plan-Revised, Window and Door Replacement Project, Buildings G at Rogers Elementary School (Alta Project No. SMSD-17-6685, Revised: May 16, 2017.

12.0 WASTE MANAGEMENT AND DISPOSAL:

Waste generated as a result of the project activities was packaged, labeled and disposed of as "UN3432, Polychlorinated Biphenyl, Solid, 9, 11, RQ." The waste was transported by BDC Special Waste Services, a California certified waste transporters. The waste was disposed at American Ecology US Ecology, located at Hwy 95, 11 miles south of Beatty, Beatty, NV 39003.

13.0 PROJECT SUMMARY

PCB related work completed during this project was done so in accordance with the "Specific PCB Removal/Remediation Plan-Revised, Window and Door Replacement Project, Buildings G at Rogers Elementary School (Alta Project No. SMSD-17-6685, Revised: May 16, 2017."

Results of dust monitoring at the exterior perimeter locations around the building indicated that the established threshold of 1 milligram per cubic meter of air (mg/m³) above background levels was not exceeded during project activities.

Visual inspections confirmed that materials designated for removal were removed and that no visible dust or debris resulting from the removal activities remained in the work area

Following the removal / remediation work, surface wipe and air samples were collected. Results of the surface wipe samples and air samples reported below the level of clearance established for this project.

14.0 DISCLAIMER

This report was prepared exclusively for use by The Santa Monica-Malibu Unified School District and may not be relied upon by any other person or entity without Alta express written permission. The information,

conclusions and recommendations described in this report apply to conditions existing at certain locations when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. Alta cannot be responsible for the impact of any changes in environmental standards, practices or regulations after performance of services.

In performing our professional services, we have applied 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 The Santa Monica-Malibu Unified School District.

15.0 SIGNATORY

Submitted for and on behalf of Alta Environmental.

Prepared by:

Alta Environmental

Cesar Ruvalcaba Project Manager

Reviewed by:

Alta Environmental

DURESOR

David R. Schack Vice President, Building Sciences

Appendices:

Appendix A: Inspector Field Notes Appendix B: Dust Monitoring Data Sheet Appendix C: Laboratory Results; Surface Wipe and Air Samples Appendix D: Certification

Appendix A

Daily Field Reports



Daily Observation Log

Client:Will Rogers Elementary SchoolPage Number: 1 of 1Project Name:Removal of Asbestos and Lead-Based PaintAlta Job No.:SMSD-16-6313

TIME COMMENTS

- 07:00 AM Alta rep. Max Quezada arrives at Will Rogers Elementary School (WRES) located at 2401 14th St., Santa Monica, CA.
- 07:10 AM Met with Gustavo Naranjo of ACE (Air Clean Environmental, Inc.). Objective is to remove the remaining windows containing asbestos and lead-based paint on East and West Side of Bldg. H and South Top Section of Bldg. K. of WRES. ACE crew laid down a safety perimeter utilizing warning tapes and signs around Bldg. H and K. ACE erected a 2-stage decon. ALTA will monitor the area for safety purposes.
- 07:15 AM ACE crews donned on their PPE, which consist of a disposable suit, ½ face APR, gloves and hard hat. Other trades are in additional PPE for safety on the site such as reflective vest, hard hat and safety glasses. Supervisor Gustavo Naranjo will be checking in on their progress periodically. All certification were checked. ACE commenced with removal of windows on Bldg. H and K using hand tools and no other mechanical means.
- 08:01 AM Calibrated L1 & L2 low-flow pumps for lead-air monitoring @ 2 L/min utilizing a Rotamater for calibration. Start Pump L1: L-01 @ 2 L/min – WRES Bldg. H & K – North (Decon)
 - Start Pump L2: L-02 @ 2 L/min WRES Bldg. H & K North
- 08:18 AM Calibrated H1 & H2 high-flow pumps for asbestos-air monitoring @ 2 L/min utilizing a Rotamater for calibration.

Start Pump H1: AA-01 @ 2 L/min – WRES Bldg. H & K – North (Decon)

- Start Pump H2: AA-02 @ 2 L/min WRES Bldg. H South
- 08:30 AM Two (2) 40 yd. containers arrive on premises.
- 09:15 AM Meeting with School District to discuss progress on project.
- 11:00 AM Lunch Break.
- 12:00 PM ACE crew continues with window removal on Bldg. H & K.
- 02:50 PM ACE crew finished window removal on remaining windows on East and West Side of Bldg. H; South Side of Bldg. K. ACE commenced clean-up process.
- 02:54 PM End Pump L1: L-01 (413 min.). Collected and labeled Lead cassettes for evaluation.
- End Pump L2: L-02 (412 min.). Collected and labeled Lead cassettes for evaluation.
- 02:58 PM End Pump H1: AA-01 (400 min.). Collected and labeled PCM cassettes for evaluation. End Pump H2: AA-02 (397 min.). Collected and labeled PCM cassettes for evaluation.
- 03:20 PM ACE will resume with window removal on Thursday (06/15/17) for Bldg. G. ACE crew ended with the removal of the following: 18 Racks on West Side and 50 windows on East Side of Bldg. H; 5 windows on South Side of Bldg. K. ACE crew wrapped all windows to be disposed of properly.
 03:25 PM Signed out with ACE.
- 03:30 PM End of Shift.

For Bag-Out Shift Only

I OI DUG OU	
# of Bags	Manifest #

14-5205 06-14-17

Alta Rep. Signature: Cert. Number: Date:



Daily Observation Log

Client:Will Rogers Elementary SchoolPage Number: 1 of 1Project Name:Removal of Asbestos and Lead-Based PaintAlta Job No.:SMSD-16-6313

TIME COMMENTS

- 07:00 AM Alta rep. Max Quezada arrives at Will Rogers Elementary School (WRES) located at 2401 14th St., Santa Monica, CA.
- 07:10 AM Met with Gustavo Naranjo of ACE (Air Clean Environmental, Inc.). Objective is to remove windows containing asbestos and lead-based paint along with PCB and Transite panels on West Side of Bldg. G of WRES. ACE crew laid down a safety perimeter utilizing warning tapes and signs around Bldg. G. ACE erected a 2-stage decon and containment along the West wall of Bldg. G. ALTA will monitor the area for air and safety purposes.
- 08:49 AM ACE crews donned on their PPE, which consist of a disposable suit, ½ face APR, gloves and hard hat. Other trades are in additional PPE for safety on the site such as reflective vest, hard hat and safety glasses. Supervisor Gustavo Naranjo will be checking in on their progress periodically. All certification were checked. ACE commenced with removal of windows on Bldg. G using hand tools and no other mechanical means.
- 08:52 AM Calibrated L1 & L2 low-flow pumps for lead-air monitoring @ 2 L/min utilizing a Rotamater for calibration.

Start Pump L1: L-01 @ 2 L/min – WRES Bldg. G – North (Decon)

- Start Pump L2: L-02 @ 2 L/min WRES Bldg. G South
- 08:57 AM Calibrated H1 & H2 high-flow pumps for asbestos-air monitoring @ 2 L/min utilizing a Rotamater. Start Pump H1: AA-01 @ 2 L/min – WRES Bldg. G – North (Decon) Start Pump H2: AA-02 @ 2 L/min – WRES Bldg. G – South
- 09:20 AM ACE crew lined two (2) 40 yd. containers with 6-mil poly. Container is to contain ACM and Lead abatement debris and bulk.
- 11:00 AM Lunch Break.
- 12:00 PM ACE crew continues with window removal on Bldg. G.
- 02:43 PM ACE crew finished partial removal of windows on West Side of Bldg. Remaining windows are scheduled to be removed on 06/16/17. ACE commenced clean-up process.
- 03:08 PM End Pump L1: L-01 (413 min.). Collected and labeled Lead cassettes for evaluation. End Pump L2: L-02 (412 min.). Collected and labeled Lead cassettes for evaluation.
- 03:18 PM End Pump H1: AA-01 (400 min.). Collected and labeled PCM cassettes for evaluation.

End Pump H2: AA-02 (397 min.). Collected and labeled PCM cassettes for evaluation.

03:25 PM ACE will resume with window removal on Friday (06/16/17) for Bldg. G. ACE crew ended with the removal of the following: 10 Racks on West Side of Bldg. G. ACE crew wrapped and labeled all windows to be disposed of properly within delivered container lined with 6-mil poly. All windows were covered with 6-mil poly with the exception of West Side of Bldg. J. Poly was removed by door and window installers AFTER Bldg. J passed inspection.

- 03:28 PM Signed out with ACE.
- 03:30 PM End of Shift.

For Bag-Out Shift Only

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# of Bags	Manifest #

Alta Rep. Signature: Cert. Number: 14-5 Date: 06-1

14-5205 06-15-17



Page 1 of _

PROJECT LOG/DAILY WORK AREA INSPECTION CHECKLIST

- -

Date: 06 16 17 Alta representative: EDWARD AGUUM	2											
Project No.: SMSO 17-6806 Project name:	Project name:											
Project location: Will Pagers ES. Project area: Burloing "6"	Project area: Bundag ' G '											
Material Removed: LBP / ACM - WINDOW PVTY Quantity removed:	Quantity removed:											
Type of Containment: Respiratory Protection Used:												
Full: 3-stage decon/walls/ceiling/shower												
plash3stage decon-shower wash station ½ face: P100/Organic	1/2 face: P100/Organic											
Mini: 2-stage decon-shower wash station Full face: P100												
Glovebag/secondary containment wash station PAPR-HEPA												
ther (describe)												
Arrival time (Alta): 0700 Abatement contractor: (ACE) INCLUSAN ENVILUA	MEAN	41										
Departure time (Alta): Contractor supervisor's name: GUSTAVO NATANGO												
(first and last)												
Contractor arrival time: Departure:												
# of workers present: Worker certifications current/available on-site												
Budoing "6" - 6 workcass Beviewed by Alta												
Contractor's job board present including Cal/OSHA notification and AQMD if applicable												
Other contractors on-site/activities: WWWW CINTURCIUR, WINNEING IN OTHER BUNDING	ï.											
DAILY WORK AREA INSPECTION (Check 4 Times/Shift)												
Decontamination Unit Time of Inspection QA Pressure Differential Isolation Barriers Time of I	nspectio	n	QA									
Proper signs at entrance and bag-out												
Airlock flaps intact (not taped open)]											
Street clothing properly stored												
Suits/respirator filters present												
Area clean: waste bags not obstructing path 🗹 🗆 🗆 🗆 Exhaust tubing intact 🕑 🖸												
Shower/pump/filters operating properly												
Work Practices Waste Disposal Time of I	nspectio	n	QA									
No saws/brooms in work area . 🗹 🗆 🗆 🗆 Waste/debris bagged 🗹 🖸												
Material kept wet]											
decontaininated, labeled provide												
Material promptly bagged]											
Material promptly bagged Image: Comparison of the relational of the relation of the relational of the relational of the relation												
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Appendix B

Particulate Sampling Data Sheets

Dust Monitor Data Summaries, Rogers Elementary School Demolition

Instrument: MIE pDR 1000 DataRams

Action limit- 0.1 milligrams per cubic meter (mg/m3)

Project number: SMSD-17-6806

	Instrument			Particulate Co	ount (mg/m3)	Results below action		
Date	Number	Time Period	Location	Current	TWA	level? Yes/No	Mean wind speed mph	Temperature °F
6/14/2017	1166-8	10:49		0.024	0.024	Yes	2.9 mph S	71
6/14/2017	1166-8	10:59		0.055	0.055	Yes	1.1 mph SW	71
6/14/2017	1166-8	11:59		0.036	0.036	Yes	2.9 mph SSW	73
6/14/2017	1166-8	12:59		0.052	0.052	Yes	1.3 mph SW	75
6/14/2017	1166-8	13:23		0.038	0.038	Yes	2.1 mph SW	73
6/15/2017	1166-9	12:00		0.034	0.034	Yes	4 mph SW	75
6/15/2017	1166-9	13:00		0.027	0.027	Yes	2.7 mph SW	77
6/15/2017	1166-9	13:47		0.029	0.029	Yes	2 mph S	76
6/16/2017	16455	7:55	Southside	0.039	0.043	Yes	0 mph SE	69
6/16/2017	16455	8:45	Southside	0.060	0.043	Yes	0 mph SSW	73
6/16/2017	16455	9:15	Southside	0.057	0.038	Yes	1.1 mph S	72
6/16/2017	16455	9:30	Southside	0.040	0.044	Yes	0.2 mph SW	71
6/16/2017	16455	10:00	Southside	0.041	0.044	Yes	2.7 mph SW	70
6/16/2017	16455	11:00	Southside	0.052	0.055	Yes	4.3 mph S	71
6/16/2017	16455	12:00	Southside	0.065	0.059	Yes	3.4 mph S	73
6/16/2017	16455	13:00	Southside	0.073	0.060	Yes	2.5 mps WSW	75
6/16/2017	16455	14:00	Southside	0.061	0.060	Yes	0.9 mph WSW	74
6/16/2017	16455	15:00	Southside	0.060	0.060	Yes	2.9 mph S	73
6/16/2017	16455	15:30	Southside	0.059	0.065	Yes	4.5 mph SW	75
6/16/2017	16455	16:00	Southside	0.048	0.055	Yes	6 mph SSE	74
6/16/2017	16455	17:00	Southside	0.024	0.028	Yes	3.6 mph SW	77
6/16/2017	16455	18:00	Southside	0.022	0.028	Yes	2.9 mph S	74
6/16/2017	16455	19:00	Southside	0.020	0.030	Yes	0 mph SSW	71
6/16/2017	16455	20:00	Southside	0.018	0.028	Yes	0.2 mph SW	69
6/16/2017	18932	8:00	Northside	0.024	0.025	Yes	0 mph SE	69
6/16/2017	18932	8:45	Northside	0.030	0.029	Yes	0 mph SSW	73
6/16/2017	18932	9:15	Northside	0.028	0.031	Yes	1.1 mph S	72
6/16/2017	18932	9:30	Northside	0.032	0.029	Yes	0.2 mph SW	71
6/16/2017	18932	10:00	Northside	0.029	0.030	Yes	2.7 mph SW	70
6/16/2017	18932	11:00	Northside	0.029	0.041	Yes	4.3 mph S	71
6/16/2017	18932	12:00	Northside	0.027	0.041	Yes	3.4 mph S	73
6/16/2017	18932	13:00	Northside	0.029	0.039	Yes	2.5 mps WSW	75
6/16/2017	18932	14:00	Northside	0.028	0.038	Yes	0.9 mph WSW	74
6/16/2017	18932	15:00	Northside	0.030	0.039	Yes	2.9 mph S	73
6/16/2017	18932	15:30	Northside	0.029	0.044	Yes	4.5 mph SW	75
6/16/2017	18932	16:00	Northside	0.031	0.040	Yes	6 mph SSE	74
6/16/2017	18932	17:00	Northside	0.020	0.022	Yes	3.6 mph SW	77
6/16/2017	18932	18:00	Northside	0.018	0.022	Yes	2.9 mph S	74
6/16/2017	18932	19:00	Northside	0.023	0.022	Yes	0 mph SSW	71
6/16/2017	18932	20:00	Northside	0.020	0.023	Yes	0.2 mph SW	69



Appendix C

Laboratory Results-

Surface Wipe Samples and Air Samples



- Remaining PCB on window frames to be completed Summer 2018
- Air Samples
- Wipe Samples



CLIENT: Santa Monica Malibu USD SITE: Will Roger's Elementary Schoo 2401 14th Street Santa Monica, California DATE: Feb. 2018 SCALE: None PROJECT NO.: SMSD-17-6806



3777 Long Beach Blvd. Annex Bldg. Long Beach, California 9080 P: (562) 495-5777 ◆ F: (562) 495-5877 ◆ www.altaenviron.com

Site: Rogers Elementary School

Subject: Summary of PCB Samping Results - Wipes and Air Samples collected Prior to Re-Occupancy

Date: 8/17/2017

			Surface W	ipes by EPA 808	32 Method	Air Samples by EPA TO-10A Method						
								Lab Result				
			Lab reporting		Clearance	Lab reporting	Lab	Ng/m3	Clearance			
			limit (RL)	Lab. Results	criteria	limit (RL)	Results	(comparison	criteria	Passed		
	Sample #	Sampled location	(ug/100cm2)	(ug/100cm2)	(ug/100cm2)	(ug/m3)	Ug/M3	Ug to Ng	Ng/M3	or failed		
Surface Wipe	81017W-1	307-Table	1	ND	1					Passed		
Surface Wipe	81017W-2	307-Window	1	ND	1					Passed		
Surface Wipe	81017W-3	305-Table	1	ND	1					Passed		
Surface Wipe	81017W-4	305-Window	1	ND	1					Passed		
Surface Wipe	81017W-5	304A-Table	1	ND	1					Passed		
Surface Wipe	81017W-6	304A-Window	1	ND	1					Passed		
Surface Wipe	81017W-7	304-Counter	1	ND	1					Passed		
Surface Wipe	81017W-8	304-Window	1	ND	1					Passed		
Surface Wipe	81017W-9	303-Floor tile	1	ND	1					Passed		
Surface Wipe	81017W-10	303-Window	1	ND	1					Passed		
Surface Wipe	81017W-11	302-Bench	1	ND	1					Passed		
Surface Wipe	81017W-12	302-Bookshelft	1	ND	1					Passed		
Surface Wipe	81017W-13	301-Table	1	ND	1					Passed		
Surface Wipe	81017W-14	301-Bookshelft	1	ND	1					Passed		
Surface Wipe	81017W-15	301A-Floor tile	1	ND	1					Passed		
Surface Wipe	81017W-16	Blank	1	ND	1					Passed		
Air TO-10A	1	305				0.0069	ND	<6.9	200	Passed		
Air TO-10A	2	304A				0.0069	ND	<6.9	200	Passed		
Air TO-10A	3	304				0.0069	ND	<6.9	200	Passed		
Air TO-10A	4	303				0.0069	ND	<6.9	200	Passed		
Air TO-10A	5	Library				0.0069	ND	<6.9	200	Passed		
Air TO-10A	6	301				0.0069	0.011	11	200	Passed		
Air TO-10A	7	301A				0.0069	0.014	14	200	Passed		
Air TO-10A	8	Field blank				0.05	ND	<50	200	Passed		
Air TO-10A	9	307				0.0069	ND	<6.9	200	Passed		

Enviro – Chem, Inc.

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

Date: August 11, 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: Rodger E.S. Wipes Lab I.D.: 170810-12 through -27

Dear Mr. Ruvalcaba:

The **analytical results** for the wipe samples, received by our laboratory on August 10, 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: Rodger E.S. Wipes DATE RECEIVED:08/10/17 DATE SAMPLED:08/10/17 MATRIX:WIPE DATE EXTRACTED:08/10/17 REPORT TO:MR. CESAR RUVALCABA DATE REPORTED:08/11/17

EPA 8082 FOR PCBs

SAMPLE	LABORATORY	PCB-	TOTAL							
I.D.	I.D.	1016	1221	1232	1242	1248	1254	1260	PCBs*	DF
81017W-1	170810-12	ND	1							
81017W-2	170810-13	ND	1							
81017W-3	170810-14	ND	1							
<u>81017W-4</u>	<u>170810-15</u>	ND	1							
81017W-5	170810-16	ND	1							
81017W-6	170810-17	ND	1							
81017W-7	170810-18	ND	1							
81017W-8	170810-19	ND	1							
81017W-9	170810-20	ND	1							
81017W-10	170810-21	ND	1							
81017W-11	170810-22	ND	1							
81017W-12	170810-23	ND	1							
81017W-13	170810-24	ND	1							
81017W-14	170810-25	ND	1							
81017W-15	170810-26	ND	1							
81017W-16	170810-27	ND	1							
Method Blank		ND	1							
	PQL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	

COMMENTS:

PQL = Practical Quantitation Limit DF = Dilution Factor Actual Detection Limit = PQL X DF ND = Non-Detected or Below the Actual Detection Limit * = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260 Data Reviewed and Approved by:

CAL-DHS ELAP CERTIFICATE No.: 1555

 $r_{\rm mirma} = \alpha / (100 m)^2$

Enviro-Chem, Inc. Laboratories Turnard 1214 E. Lexington Avenue, 0 same Pomona, CA 91766 0 48 Hoi Tel: (909) 590-5905 Fax: (909) 590-5907 CA-DHS ELAP CERTIFICATE #1555 0 ther:			Ind Time ay S Standard)	×	F CONTAINERS	ERATURE	ERVATION	EPA 35400 8082	54		Misc./PO#
SAMPLE ID	LAB ID	SAN DATE	IPLING TIME	MATR	No. O	TEMP	PRES		Analysis F	Required	COMMENTS
81017 W-1	170810-12	8/10	0900	wipe	1	-	Ice	×			KOU CME Table
81017W-2	1 - 13				1			×			Window
810174-3	- 14				1			×			Table
81017 -4	- 15				1			×			Window
81017W-5	- 16				1			x			Table
81017W-5	- 17				1			×			Minda
81017 - 18					1			×			window (an ter
81017W-8	- 19				1			×			Ui daid
81017W-9	- 20				1			x			Window FI TI
810172-10	- 21				1			×			Floor lile
81017W-11	- 22				i			X			Window
81017W-12	- 23				i			×			Beuch
81017W-13	- 24				1			Y			Dookshelt
81017W-14	- 75		11		1			X			a billa
810171-15	V - 26	V	V	V	11	07	V	×			Poo Rshelp
Company Name: Alta Environ	mental		1.1		Proje	ct Con	tact: Ces	ar Ruvalca	aba	Sampler's Signature:	Fiddy file
3777 Long Beach Bl	vd Anney Bldg	_					_			Tyles	fetty
Address:	vu., Annex Diug.				Tel:	562-4	95-5777	_		Project Name/ID:	
City/State/Zip: Long Beach, California 90807					Fax:					Rodger E	S. Wipes
Relinquished by: Tyles Felly Received				by:	0	L	~		Date & Ting 19/2	AM Instructions for	Sample Storage After Analysis
Relinquished by: Received			by: Bate 2 Jima					Date & Time	O Dispose of O Return to Client & Store (30 Days)		
Relinquished by: Received				by:					Date & Timo	O Other:	

CHAIN OF CUSTODY RECORD

Date: <u>Aug 10, 2017</u>

Page _____ of _____

Enviro-Chem, Inc. L 1214 E. Lexington Ave Pomona, CA 91766 Tel: (909) 590-5905 Fax: 6 CA-DHS ELAP CERTIFICA	aboratories enue, (909) 590-5907 ATE #1555	Turnaroun 0 Same Day 0 4 Hours 0 48 Hours 0 72 Hours 0 1 Week (S Other:	d Time		F CONTAINERS	ERATURÉ	ERVATION	EPA 35400 8082					//		Misc./PO# SMSD-17-6684
SAMPLE ID	SAMPLE ID LAB ID SAMPLING DATE TIME			MATR	No. O	TEMP	PRES		An	alysis	s Re	qui	red		COMMENTS
810172-16	170810-27	08/10	0900	There .	1		Ice	×							Blank
					40	2									
			-						_	_		_	_	-	
						_			-	_	_	_	_		
							-		-			-		-	
									+			-	-	-	
									_						
						-			_				_		
					-				_			_	-	_	
Company Name: Alta Environ	I mental				Proje	ct Con	tact: Ces	ar Ruvalc	caba		15	Sample	er's Sia	nature:	
						_					_	1	ight	70	alty
Address: 3777 Long Beach Bl	lvd., Annex Bldg.				Tel:	562-4	495-5777				F	Project	Name/	ID:	~
City/State/Zip: Long Beach, California 90807					Fax:							Ro	gers	ES-C	G-Pre-Occupancy
Relinquished by:	Fetty		Received	liby: C	A	~	/		D	Date & Time.	201 22	tar.	Instruct	ions for S	Sample Storage After Analysis:
Relinquished by:			Received	l by:	V	-			D	Date & Time			O Dispo	se of O	Return to Client & Store (30 Days)
Relinquished by:			Received	by:					D	Date & Time.			0 Other		

CHAIN OF CUSTODY RECORD

Date: Ang 10, 2017



Attn: CESAR RUVALCABA Alta Environmental 3777 Long Beach Blvd Annex Building Long Beach, CA 90807

> Phone: (562) 495-5777 Fax:

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 8/14/2017. The results are tabulated on the attached data pages for the following client designated project:

Rogers ES-Window Project

The reference number for these samples is EMSL Order #011706504. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry Laboratory Director



AIHA-LAP, LLC-IHLAP Lab # 100194 NELAP Certification: NJ 03036; NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

8/17/2017



EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson, NJ 08077 Phone/Fax: (856) 303-2500 / (856) 858-4571 http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order: 011706504 CustomerID: ALTA34 CustomerPO: SMSD-17-6806 ProjectID:

011706504-0001

Lab ID:

Attn: CESAR RUVALCABA Alta Environmental 3777 Long Beach Blvd Annex Building Long Beach, CA 90807

01

Project: Rogers ES-Window Project

Client Sample Description

Analytical Results Collected: 8/11/2017

Phone:

Received:

Fax:

(562) 495-5777

08/14/17 9:00 AM

Method	Parameter	Result	RL U	Inits	Prep Date	Analyst	Analysis Date	Analyst
TO-10A	Aroclor-1016	ND	0.0069 µ	g/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1221	ND	0.0069 µi	g/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1232	ND	0.0069 µi	g/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1242	ND	0.0069 µi	g/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1248	ND	0.0069 µ	g/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1254	ND	0.0069 µ	g/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1260	ND	0.0069 µ	g/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1262	ND	0.0069 µ	g/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1268	ND	0.0069 µi	g/m³	8/14/2017	SD	8/15/2017	EH
Client Sample Deso	cription 02		Collecte	ed:	8/11/2017 L	ab ID:	011706504-0	002

					Prep		Analysis	
Method	Parameter	Result	RL	Units	Date	Analyst	Date	Analyst
TO-10A	Aroclor-1016	ND	0.0069	µg/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1221	ND	0.0069	µg/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1232	ND	0.0069	µg/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1242	ND	0.0069	µg/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1248	ND	0.0069	µg/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1254	ND	0.0069	µg/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1260	ND	0.0069	µg/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1262	ND	0.0069	µg/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1268	ND	0.0069	µg/m³	8/14/2017	SD	8/15/2017	EH

Client Sample Description 03

Collected: 8/11/2017

011706504-0003

Lab ID:

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
TO-10A	Aroclor-1016	ND	0.0069	µg/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1221	ND	0.0069	µg/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1232	ND	0.0069	µg/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1242	ND	0.0069	µg/m³	8/14/2017	SD	8/15/2017	EH



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http://www.EMSL.com EnvChemistry2@emsl.com

011706504-0003

Attn: **CESAR RUVALCABA Alta Environmental** 3777 Long Beach Blvd **Annex Building** Long Beach, CA 90807

Project: Rogers ES-Window Project

Analytical Results

Phone:

Received:

Collected:

Fax:

(562) 495-5777

08/14/17 9:00 AM

8/11/2017

Lab ID:

Client Sample Description 03

Method	Parameter	Result	RL Uni	Prep ts Date	Analysi	Analysis Date	Analyst
TO-10A	Aroclor-1248	ND C	0.0069 µg/i	m³ 8/14/20)17 SD	8/15/2017	EH
TO-10A	Aroclor-1254	ND C	0.0069 µg/i	m³ 8/14/20)17 SD	8/15/2017	EH
TO-10A	Aroclor-1260	ND C	0.0069 µg/i	m³ 8/14/20)17 SD	8/15/2017	EH
TO-10A	Aroclor-1262	ND C	0.0069 µg/i	m³ 8/14/20)17 SD	8/15/2017	EH
TO-10A	Aroclor-1268	ND C	0.0069 µg/i	m³ 8/14/20	017 SD	8/15/2017	EH
Client Sample Des	scription 04		Collected.	8/11/2017	Lab ID:	011706504-0	004

Client Sample Description 04

	_			Prep		Analysis	
Method	Parameter	Result	RL Un	its Date	Analyst	Date	Analyst
TO-10A	Aroclor-1016	ND	0.0069 µg/	m ³ 8/14/20	17 SD	8/15/2017	EH
TO-10A	Aroclor-1221	ND	0.0069 µg/	m ³ 8/14/20	17 SD	8/15/2017	EH
TO-10A	Aroclor-1232	ND	0.0069 µg/	m ³ 8/14/20	17 SD	8/15/2017	EH
TO-10A	Aroclor-1242	ND	0.0069 µg/	m ³ 8/14/20	17 SD	8/15/2017	EH
TO-10A	Aroclor-1248	ND	0.0069 µg/	m ³ 8/14/20	17 SD	8/15/2017	EH
TO-10A	Aroclor-1254	ND	0.0069 µg/	m³ 8/14/20	17 SD	8/15/2017	EH
TO-10A	Aroclor-1260	ND	0.0069 µg/	m ³ 8/14/20	17 SD	8/15/2017	EH
TO-10A	Aroclor-1262	ND	0.0069 µg/	m ³ 8/14/20	17 SD	8/15/2017	EH
TO-10A	Aroclor-1268	ND	0.0069 µg/	m ³ 8/14/20	17 SD	8/15/2017	EH
Client Sample De	scription 05		Collected	: 8/11/2017	Lab ID:	011706504-0	005

Prep Analysis Date Parameter Result RL Units Analyst Date Analyst Method ND 8/14/2017 **TO-10A** Aroclor-1016 0.0069 µg/m³ SD 8/15/2017 EΗ ND 0.0069 µg/m³ 8/14/2017 SD 8/15/2017 EΗ **TO-10A** Aroclor-1221 ND 0.0069 µg/m³ 8/14/2017 SD 8/15/2017 EH **TO-10A** Aroclor-1232 TO-10A ND 0.0069 µg/m³ 8/14/2017 SD 8/15/2017 EΗ Aroclor-1242 ND 0.0069 µg/m³ 8/14/2017 SD 8/15/2017 EΗ **TO-10A** Aroclor-1248 ND 0.0069 µg/m³ 8/14/2017 SD 8/15/2017 **TO-10A** Aroclor-1254 EΗ ND SD EΗ 0.0069 µg/m³ 8/14/2017 8/15/2017 **TO-10A** Aroclor-1260 ND 8/14/2017 SD 8/15/2017 ΕH TO-10A Aroclor-1262 0.0069 µg/m³



Attn: CESAR RUVALCABA Alta Environmental 3777 Long Beach Blvd **Annex Building** Long Beach, CA 90807

Project: Rogers ES-Window Project

		Analytical R	esults				
Client Sample De	scription 05		Collected:	8/11/2017	Lab ID:	011706504-0	005
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
TO-10A	Aroclor-1268	ND	0.0069 µg/m³	8/14/2017	Y SD	8/15/2017	EH
Client Sample De	scription 06		Collected:	8/11/2017	Lab ID:	011706504-0	006
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
TO-10A	Aroclor-1016	ND	0.0069 µg/m³	8/14/2017	7 SD	8/15/2017	EH
TO-10A	Aroclor-1221	ND	0.0069 µg/m³	8/14/2017	7 SD	8/15/2017	EH
TO-10A	Aroclor-1232	ND	0.0069 µg/m³	8/14/2017	SD	8/15/2017	EH
TO-10A	Aroclor-1242	ND	0.0069 µg/m³	8/14/2017	7 SD	8/15/2017	EH
TO-10A	Aroclor-1248	0.011	0.0069 µg/m³	8/14/2017	Y SD	8/15/2017	EH
TO-10A	Aroclor-1254	ND	0.0069 µg/m³	8/14/2017	7 SD	8/15/2017	EH
TO-10A	Aroclor-1260	ND	0.0069 µg/m³	8/14/2017	y SD	8/15/2017	EH
TO-10A	Aroclor-1262	ND	0.0069 µg/m³	8/14/2017	7 SD	8/15/2017	EH
TO-10A	Aroclor-1268	ND	0.0069 µg/m³	8/14/2017	7 SD	8/15/2017	EH
Client Sample De	scription 07		Collected:	8/11/2017	Lab ID:	011706504-0	007

Phone:

Received:

Fax:

(562) 495-5777

08/14/17 9:00 AM

Client Sample Description 07

Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst
TO-10A	Aroclor-1016	ND 0.0	1069 µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1221	ND 0.0	069 µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1232	ND 0.0	069 µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1242	ND 0.0	1069 µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1248	0.014 0.0	069 µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1254	ND 0.0	069 µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1260	ND 0.0	069 µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1262	ND 0.0	1069 µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1268	ND 0.0	069 µg/m³	8/15/2017	SD	8/16/2017	EH
Client Sample D	escription 08 Blank	(Collected:	8/11/2017 La	b ID:	011706504-0	008
Method	Parameter	Result	RL Units	Prep Date	Analyst	Analysis Date	Analyst



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EMSL Order:011706504CustomerID:ALTA34CustomerPO:SMSD-17-6806ProjectID:

Attn: CESAR RUVALCABA Alta Environmental 3777 Long Beach Blvd Annex Building Long Beach, CA 90807

Project: Rogers ES-Window Project

		Analytical Re	esults					
Client Sample Des	cription 08 Blank		Collect	ed:	8/11/2017	Lab ID:	011706504-0	008
Method	Parameter	Result	RL U	Inits	Prep Date	Analyst	Analysis Date	Analyst
TO-10A	Aroclor-1016	ND	0.050 µ	ıg/tube	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1221	ND	0.050 µ	ıg/tube	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1232	ND	0.050 µ	ıg/tube	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1242	ND	0.050 µ	ıg/tube	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1248	ND	0.050 µ	ıg/tube	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1254	ND	0.050 µ	ıg/tube	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1260	ND	0.050 µ	ig/tube	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1262	ND	0.050 µ	ıg/tube	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1268	ND	0.050 µ	ig/tube	8/15/2017	SD	8/16/2017	EH
Client Sample Des	cription 09		Collect	ed:	8/11/2017	Lab ID:	011706504-0	009

Phone:

Received:

Fax:

(562) 495-5777

08/14/17 9:00 AM

	Demonstration			11	Prep	• • •	Analysis	
Method	Parameter	Result	RL	Units	Date	Analyst	Date	Analyst
TO-10A	Aroclor-1016	ND	0.0069	µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1221	ND	0.0069	µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1232	ND	0.0069	µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1242	ND	0.0069	µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1248	ND	0.0069	µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1254	ND	0.0069	µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1260	ND	0.0069	µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1262	ND	0.0069	µg/m³	8/15/2017	SD	8/16/2017	EH
TO-10A	Aroclor-1268	ND	0.0069	µg/m³	8/15/2017	SD	8/16/2017	EH

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)

EMSL Analytical Inc.

TUBE E	PCB	SURROGATE	RECOVERY
--------	-----	-----------	----------

Lab Name:	EMSL Analytical					
* : Values outside	of QC limits					
D: Surrogate dilute	ed out					
	Compound Name:	тсх	TCX2	DCB	DCB2	Total Out
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(60-120)	(60-120)	(60-120)	(60-120)	
MB 1 GC 3672-33	08/15/17 13:59	94	79	108	105	0
LCS 1 GC 3672-33	08/15/17 14:19	99	88	110	104	0
LCS 2 GC 3672-33	08/15/17 14:40	100	87	109	107	0
SRB 1 GC 3672-33	08/15/17 15:00	100	83	109	106	0
011706504-1	08/15/17 15:20	103	84	102	100	0
011706504-2	08/15/17 15:40	102	84	98	100	0
011706504-3	08/15/17 16:01	99	83	104	99	0
011706504-4	08/15/17 16:21	73	64	75	73	0
011706504-5	08/15/17 16:41	106	99	109	103	0
011706504-6	08/15/17 17:01	103	94	106	101	0
011706504-7	08/16/17 10:57	98	82	105	102	0
011706504-8	08/16/17 11:18	94	80	106	103	0
011706504-9	08/16/17 11:38	101	82	104	102	0
011706508-1	08/16/17 11:58	96	82	101	100	0
011706508-2	08/16/17 12:19	102	81	102	99	0
011706508-3	08/16/17 12:39	94	79	102	99	0

EMSL Analytical Inc.

				Customer Sample#:	MB 1 G	C 3672-33	5
Lab Name:	EMSL A	nalytical					
EMSL Sample ID:				Project:			
Lab File ID:	K52216.	D		Sample Matrix:	PUF		
Instrument ID:	GC-ECE	D-K		Sampling Date:	12:00:00 AM		
Analyst:	EH			Date Extracted:	8/14/2017		
GC Column:	CLPest	l (0.32 mm)	Analysis Date	8/15/2017 1:	59:00 PM	
GC Column 2:	CLPest	II (0.32 mn	ר)	Sample Volume:	1 PUF		
% Moisture:	0			Dilution Factor:	1		
PH:	0			Concentrated Extract Vol:	10 (mL)		
GPC Cleanup(Y/N):	Ν			Injection Volume:	1 (ul)		
Extraction Type:	T0-10a			Sulfur Cleanup:	N		
Method:	EPA TO	-10a					
CAS NO			C	OMPOUND	Report Limit (ug/PUF)	CONC. (ug/PUF)	Q
12674-11-2	Aroclor-	1016			0.050		U
11104-28-2	Aroclor-	1221			0.050		U
11141-16-5	Aroclor-	1232			0.050		U
53469-21-9	Aroclor-	1242			0.050		U
12672-29-6	Aroclor-	1248			0.050		U
11097-69-1	Aroclor-	1254			0.050		U
11096-82-5	Aroclor-	1260			0.050		U
37324-23-5	Aroclor-	1262			0.050		U
1110-14-4	Aroclor-	1268			0.050		U
Qualifier Definitions U = Undetected B = Compound detecter E = Estimated value D = Dilution	d in method	blank					

PCB ORGANICS ANALYSIS DATA SHEET

P = Results between the two columns differ >40%

EMSL Analytical Inc.

			Customer Sample#:	SRB 1 (GC 3672-3	3
Lab Name:	EMSL Anal	ytical				
EMSL Sample ID:			Project:			
Lab File ID:	K52219.D		Sample Matrix:	PUF		
Instrument ID:	GC-ECD-K		Sampling Date:	12:00:00 AM	1	
Analyst:	EH		Date Extracted:	8/14/2017		
GC Column:	CLPest I (0	.32 mm)	Analysis Date	8/15/2017 3:	00:00 PM	
GC Column 2:	CLPest II (0	0.32 mm)	Sample Volume:	1 L		
% Moisture:	0		Dilution Factor:	1		
PH:	0		Concentrated Extract Vol:	10 (mL)		
GPC Cleanup(Y/N):	N		Injection Volume:	1 (ul)		
Extraction Type:	T0-10a		Sulfur Cleanup:	N		
Method:	EPA TO-10)a				
CAS NO			COMPOUND	Report Limit (ug/L)	CONC. (ug/L)	Q
12674-11-2	Aroclor-101	6		0.050		U
11104-28-2	Aroclor-122	21		0.050		U
11141-16-5	Aroclor-123	32		0.050		U
53469-21-9	Aroclor-124	2		0.050		U
12672-29-6	Aroclor-124	8		0.050		U
11097-69-1	Aroclor-125	54		0.050		U
11096-82-5	Aroclor-126	60		0.050		U
37324-23-5	Aroclor-126	62		0.050		U
1110-14-4	Aroclor-126	8		0.050		U
Qualifier Definitions U = Undetected B = Compound detected E = Estimated value D = Dilution	d in method bla	ank				

PCB ORGANICS ANALYSIS DATA SHEET

P = Results between the two columns differ >40%

PCB's by TO-10a/8082a	CB's by TO-10a/8082a aboratory Control Spike Duplicate Recovery Forr Analytical Sequence # K170815 Analytical Batch # GC 3672-33	P(Introl Spike/ La PUF 1.00000	boratory Co Matrix ug/PUF	La Spike Added
Laboratory Control Spike/ Laboratory Control Spike Duplicate Recovery For	Analytical Sequence # K170815 Analytical Batch # GC 3672-33	PUF 1.00000	Matrix ug/PUF	ke Added
	aboratory Control Spike Duplicate Recovery For	introl Spike/ La	boratory Co	La

Data File:	LCS 1 GC 3	672-33	LCS 2 GC 3(372-33			
Data File:	K52217.D		K52218.D				
Analysis Time/Date	8/15/17 2:19	PM (8/15/17 2:40	PM			
	LCS 1	LCS 1	LCS 2	LCS 2	Recovery		RPD
Compound	ug/PUF	RECOVERY	ug/PUF	RECOVERY	Limits	RPD	Limits
Aroclor 1016	1.082	108	1.069	107	84 - 133	1	20
Aroclor 1260	1.049	105	1.061	106	83 - 131	-	20

									Attn:	Sample Receiving
EMSL				Env	ironmental Chain of C Order Number	Chemis ustody (Lab Use Or	try		EM 20 CINE	SL ANALYTICAL, INC D ROUTE 130 NORTH IAMINSON, NJ 0807
EMSL ANALYTICAL, INI	C.				011706500					Fax: (856) 786-5974
Report To Contact Name	e: Cesar	r Ruva	lcaba			Bill To Co	mpany: Sa	ame		
Company Name: Alta	Environm	nental				Attention	То:			
Street: 3777 Long Bea	ch Blvd.					Street:			1	
City: Long Beach	State/Pro	ovince	CA	Zip/Postal C	ode: 90807	City:		State/Prov	vince:	Zip/Postal Code:
Phone : 562-497-5777	F	ax :				Phone:		Fax	K:	
Project Name: Rogers E	S-Windo	w Pro	ject		Email Re	sults To: @a	ar.ruvalcaba	U.S. S	State where Samp	les Collected: CA
Number of Samples in Si	hinment.	9	Date of Sh	ipment: 😚	1117 Purchase	e Order: SMS	SD-17-6806	ampled By (S	Signature); C. R	. 15.F. S.H
Standard Turnaround Tir	ne: 2	2 Week	s	The followin	g TAT's are subje	ct to lab app	roval: 🗌 1 W	eek 🗌 4 Day	s 🛛 3 Days 🗌 2	Days 🗌 1 Day
Failure to complete will h	inder proce	essing	of samples	Matrix	Preservative		List Test	(s) Needed		
Client Sample ID	Comp	mp Grab Date/Time		W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	EPA	10-1012		S.F. HEM Vilime	Comments
01			8111/12:48	iA	4	ETT	TO 19 S.F.	PCB	7,100	
02			1	1	1	EAAT	10-1012	1	7.100	
03			4			1			7,200	
04									2 2/10	
									71 200	
05									7,200	
06			V De			- Pr	N N	•	TIL	Data & Time
Released By (Sign	hature)		11 Da	13: 0	0 10	-	4 C		8/10/	209.0
Sever th			Sector	13.	V				0/14/1	1 0000
Please indicate reportin	g require	ments	: 🗌 Results	Only 🛛 Res	ults and QC 🗌 Re	educed Deliv	erables 🗌 Dis	sk Deliverable	e 🗌 Other	_
Instructions or Commo	nte' -				D					

Controlled Document - Environmental Chemistry COC - R4 - 12/27/2011

Page 1 of _____ pages

Page 1 Of

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Environmental Chemistry Chain of Custody EMSL Order Number (Lab Use Only):

011706504

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Failure to complete will hir	nder pro	cessin	g of samples	Matrix	Preservative			Lis	st Test(s) Need	ed			
<	Client Sample ID	Comp	Grab	Date/Time	W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other							(S.I.	Comments
2	37			8111/12:48	iA	4	EPA	TO	10A	PCPS				7,200	
8	08 BIGNK			1	Ì		([1	1				7.24	
(9)	09			\checkmark	V	\checkmark	x	Y	4	t				7,200	
\sim					5.44										
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011706504

OrderID:

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0 Scale 6 (12) (4) ENVIRONMENTAL 304 SA 9 301 301 A S Library 302 305 304 . 303 3070 0 3 8 10 È 4 Project No./Task No. Checked by Calculated by Tyler F. Project Name Rody ers Ū E Ġ 10cation Sheet_ Date Date E.S. Pre-Occupency Ang 10, 2017 of -

Scanned by CamScanner

Enviro – Chem, Inc.

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

Date: June 22, 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: Rogers ES, Building G Lab I.D.: 170621-18 through -21

Dear Mr. Ruvalcaba:

The **analytical results** for the wipe samples, received by our laboratory on June 21, 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

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 Rogers ES, Building G PROJECT: DATE RECEIVED: 06/21/17 DATE SAMPLED: 06/20/17 DATE EXTRACTED:06/21/17 MATRIX: WIPES DATE ANALYZED:06/21/17 REPORT TO: MR. CESAR RUVALCABA DATE REPORTED: 06/22/17 EPA 8082 FOR PCBs UNITS: uG/100CM² = MICROGRAM PER 100 SQUARE CENTIMETERS SAMPLE LABORATORY PCB- PCB- PCB- PCB- PCB- PCB- TOTAL I.D. I.D. 1016 1221 1232 1242 1248 1254 1260 PCBs* DF 620-1 170621-18 ND ND ND ND ND ND ND ND 620-2 170621-19 ND ND ND ND ND ND ND ND 1 170621-20 ND 620-3 ND ND ND ND ND ND ND 1 620-4 170621-21 ND ND ND ND ND ND ND ND 1 Method Blank ND ND ND ND ND ND ND ND 1

1.0 1.0 1.0 1.0 1.0 1.0

1.0

COMMENTS:

PQL = Practical Quantitation Limit DF = Dilution Factor Actual Detection Limit = PQL X DF ND = Non-Detected or Below the Actual Detection Limit * = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260

1.0

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

POL

1214 F	exington A	venue. Po	Enviro	o-Chem, In	c. Tel (909)59	0-5905 Fa	ax (909)590-	5907
1214 C.		venue, re		1100		0.0000 11		
			QA/Q	C Rep	<u>port</u>			
		An	alysis: E	PA 808	82 (PCB)			
Matrix:	Wipe				Date Analy	/zed:	<u>6/21/201</u>	7_
Unit:	ug / Wipe							
Matrix Snike (N	SV/Matrix	Snike Dun	licate (MSD					
Main Spike (M		рике рар		')				
Spiked Sample	Lab I.D.:		<u>17062</u>	<u>1-LSC</u>	:1/2			
Analyte	spk conc	MS	%REC	MSD	%REC	%RPD	ACP % RPD	ACP %REC
PCB (1016+1260)	20.0	17.3	86%	16.5	83%	4%	0-20%	70-130
LCS STD RECO	SPK CORC	105	% REC	ACP	%RFC			
PCB (1016+1260)	20.0	16.6	83%	75	-125			
spk conc = Spik %REC = Percer ACP %RPD = A ACP %REC = A Analyzed and F Final Reviewer	e Concentra It Recovery cceptable F cceptable F Reviewed B	ation Percent RP Percent Re	D Range covery Rang	ge				

Enviro-Chem, Inc. L 1214 E. Lexington Ave Pomona, CA 91766 Tel: (909) 590-5905 Fax: - CA-DHS ELAP CERTIFICA	aboratories enue, (909) 590-5907	Turnarour o Same Day 24 Hours o 48 Hours o 72 Hours Other:	tandard)	RIX	DF CONTAINERS	PERATURE	SERVATION	EP/ 808	472	R	4	4		./(Misc./PO# 680.6 SMSD-17-6655
SAMPLE ID	LAB ID	DATE		MAT	No. (TEM	PRE		Ar	nalysis	Re	quir	ed		COMMENTS
620-1	170621-18	6/20/17	2pm	WIPE	1	ye	Ice	X					*	N-30	4-center-sill-100 CM2
620-2	1-19			1	1	44		X						N-30	4-center-floor-100 CM2
620-3	-20				1	ye		X						S-30	3-center-floor-100 CM2
620-4	1-21	Ya	Ym	6	1	44	1 10	X						S-30	3-center-sill-100 CM2
Company Name: Alta Environ	mental				Ргоје	ect Con	tact: Ces	ar Ruva	lcaba		5	ampler'	s Signa	ture:	
3777 Long Beach Bl Address:	vd., Annex Bldg.				Tel: 562-495-5777 Project Name/ID: Rogers ES, Building G					G					
City/State/Zip: Long Beach, Ca Relinquished by:	ulifornia 90807 6(ccfr 6/21/17	Gân	Received Received	'by:	Fax:		12	1	é		107	s c In o	struction Dispose	of OR	mple Storage After Analysis: eturn to Cient 🌣 Store (30 Days)
Relinquished by:		-	Received	by:			. ,			Date & Time.	_	0	Other:		\sim
Date: 6/20/17			CHAI	N OF	CU	STO	DY R	ECC	ORD					Pag	e of

Page _____of ____