

MEMORANDUM

Date: August 11, 2014

To: Maria Gillette
Department of Toxic Substances Control

From: ENVIRON International Corporation

Subject: **Summary of Soil Sampling Results
Malibu High School
30215 Morning View Drive, Malibu, California**

Summary of Results

This data transmittal presents validated soil sample results for a subset of the soil samples (36 out of 439 soil borings; MH-SB-27A, 27B, 28A, 28B, MH-SB-29 through MH-SB-40, MH-SB-44 through MH-SB-65) advanced at Malibu High School (MHS). Soil samples were analyzed for a variety of compounds in accordance with the Department of Toxic Substances Control (DTSC)-approved [Preliminary Environmental Assessment](#) (PEA) Work Plan. These results were discussed with DTSC and Malibu Unites (MU) consultant, Kurt Fehling on August 8, 2014. **Based on the reviewed results, no issues of concern were identified in this subset of soil samples collected at MHS.** Further details are provided below.

Background

On March 13, 2014, the Santa Monica-Malibu Unified School District (the District) and DTSC executed a Voluntary Investigation Agreement to conduct a PEA at Juan Cabrillo Elementary School (JCES) and MHS to evaluate the environmental condition of soil at the site and to assess the potential for the presence of hazardous substances in areas at the site based on current and historical known and/or suspected site uses. ENVIRON's *Draft Preliminary Environmental Assessment Work Plan* (PEA Work Plan) was submitted to DTSC on May 23, 2014 and conditionally approved by DTSC on June 27, 2014. ENVIRON commenced field work on June 30, 2014. All sampling is conducted under DTSC's oversight and in accordance with the DTSC-approved PEA Work Plan.

ENVIRON advanced 439 soil borings and 21 soil vapor borings at MHS, as illustrated on Figure 1. We have received validated soil sampling results for 36 shallow borings collected from 0 to 0.5 feet below ground surface (bgs) and from 1.5 to 2 feet bgs. Therefore, this data transmittal covers results for 72 soil samples obtained from borings MH-SB-27A, 27B, 28A, 28B, MH-SB-29 through MH-SB-40, MH-SB-44 through MH-SB-65. We will issue an updated data transmittal once more validated soil and soil vapor data become available.

Fourteen Areas of Interest (AOIs) were identified at MHS (AOIs - 5 through -18), as described in the PEA Work Plan. General boring locations were selected based on each identified AOI as further described in Table 2 of the PEA Work Plan. This data transmittal presents validated soil sampling results collected from the four AOIs listed below:

- AOI-5 addresses buildings constructed prior to 1981;

- AOI-6 addresses areas previously excavated by Arcadis;
- AOI-7 addresses open areas around and in between older buildings within AOI-5; and
- AOI-17 addresses the pad-mounted electrical transformers.

Depending upon location, soil samples collected from the AOIs were analyzed for pesticides, herbicides, polychlorinated biphenyls (PCBs), and metals (including lead). Please refer to the PEA Work Plan for details regarding the analytical testing program.

As specified in the PEA Work Plan, a site-wide human health risk screening evaluation (HHRSE) will be prepared once all the data from JCES and MHS are received. In the interim, for screening purposes, the available data are compared to United States Environmental Protection Agency (USEPA) and/or DTSC-modified residential Regional Screening Levels (RSLs) for soil.¹ It should be noted that RSLs are not cleanup levels, and the presence of concentrations exceeding these levels does not indicate a hazardous condition.

The DTSC-modified RSLs or USEPA RSLs are concentrations of chemicals in residential soil that the California EPA (Cal/EPA) and/or USEPA consider to be below thresholds of concern for risks to human health over a lifetime. In 2013, the DTSC incorporated Cal/EPA toxicity criteria and recommendations (e.g. route-to-route extrapolation), and calculated the DTSC-modified residential and commercial/industrial soil screening levels for a subset of chemicals for which 1) the Cal/EPA-recommended toxicity value was more protective than the toxicity value used to derive the USEPA RSLs, or 2) there was no RSL due to the lack of route-to-route extrapolation when deriving the USEPA RSLs.² For the chemicals listed by the DTSC, the DTSC-modified residential RSLs were used as the health-based screening values; otherwise, the USEPA residential RSLs were used.

Both the DTSC-modified residential RSLs and the USEPA residential RSLs correspond to an excess lifetime target cancer risk of one in a million (1×10^{-6}) or a target hazard quotient of one (1) for noncancer health effects. These values were based on soil direct contact exposure pathways including incidental ingestion, inhalation of soil particulates and volatile chemicals in ambient air, and dermal contact. For a resident, exposure is assumed seven days/week for 350 days/year (or approximately 96 percent of the time). The exposure duration for the resident is assumed to be 30 years which is the 95th percentile for time spent at one residence. Therefore, the approach is highly conservative when comparing the soil data collected from the school environment to these screening values of long-term residential exposure.

Results

As a conservative screen, individual soil samples were first compared directly to the chemical-specific RSLs.

- All soil samples that were analyzed for herbicides were non-detect for these compounds.
- All samples tested for PCBs were either non-detect or were present at concentrations less than applicable USEPA and/or DTSC-modified residential RSLs.
- All soil samples analyzed for pesticides were either non-detect or had concentrations less than applicable USEPA and/or DTSC-modified residential RSLs.

¹ USEPA. 2014. Regional Screening Levels. May. <http://www.epa.gov/region9/superfund/prg/> and Cal/EPA. 2014. Office of Human and Ecological Risk (HERO) Human Health Risk Assessment (HHRA) Note 3. July. <http://www.dtsc.ca.gov/AssessingRisk/upload/HHRA-Note-3-2.pdf>.

² Updated July 2014.

- Metals occur naturally in soil. All of metals concentrations detected in soil either were within the background range for soil in southern California or were less than applicable USEPA and/or DTSC-modified residential RSLs.

Tables summarizing the results, organized by AOI, are attached as follows:

- Tables 1a through 1c, summarize validated soil data for AOI-5³;
- Tables 2a through 2d, summarize validated soil data for AOI-6;
- Tables 3a and 3b, summarize validated soil data for AOI-7; and
- Table 4 summarizes validated soil data for AOI-17.

Laboratory and validation reports for these samples are provided in Appendix A.

As stated above, pending completion of the site-specific HHRSE, detected concentrations of metals, pesticides, and PCBs were compared to applicable residential RSLs and upon evaluation, no issues of concern were identified in this subset of data.

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³ Tables do not include organophosphate pesticides and herbicides by USEPA Methods 8141A and 8151, respectively, for AOIs-5 and -7. These results will be reported once the validated soil data become available.

Tables

Table 1a. AOI-5 PCBs in Soil

Malibu High School
30215 Morning View Drive
Malibu, California

Area of Interest (AOI)	Sample ID	Sample Date	Depth (feet bgs)	PCBs in µg/kg						
				Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Residential DTSC-Modified RSL or USEPA RSL				4,000	150	150	240	240	240	240
AOI-5 - Buildings Constructed Prior to 1981	MH-SB-29-0-0.5	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	140	< 50
	MH-SB-29-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-30-0-0.5	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-30-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-32-0-0.5	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-32-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-37-0-0.5	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	50	< 50
	MH-SB-37-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-38-0-0.5	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-38-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-44-0-0.5	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	170	86
	MH-SB-44-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-45-0-0.5	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	94	< 50
	MH-SB-45-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-46-0-0.5	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	85 J	< 50
	MH-SB-46-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-46-1.5-2	7/8/2014	1.5	< 49	< 49	< 49	< 49	< 49	< 49	< 49
	MH-SB-47-0-0.5	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-47-1.5-2	7/8/2014	1.5	< 49	< 49	< 49	< 49	< 49	< 49	< 49
	MH-SB-48-0-0.5	7/8/2014	0	< 49	< 49	< 49	< 49	< 49	83	< 49
	MH-SB-48-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-62-0-0.5	7/8/2014	0	< 49	< 49	< 49	< 49	< 49	< 49	< 49
	MH-SB-62-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	57	< 50

Notes:

µg/kg - micrograms per kilogram

Field duplicates are shown in italics

PCBs by USEPA Method 8082A

PCBs - Polychlorinated biphenyls

DTSC - Department of Toxic Substances Control

USEPA - United States Environmental Protection Agency

RSLs - Regional Screening Levels

bgs - below ground surface

J - Results and/or reporting limits are estimated

Table 1b. AOI-5 Organochlorine Pesticides in Soil
Malibu High School
30215 Morning View Drive
Malibu, California

Area of Interest (AOI)	Sample ID	Sample Date	Depth (feet bgs)	Pesticides (Organochlorine) in µg/kg																			
				4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-BHC	beta-BHC	Chlordane (total)	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
Residential DTSC-Modified RSL or USEPA RSL				2,200	1,600	1,900	31	85	300	1,800	NA	33	370,000	370,000	370,000	18,000	18,000	18,000	560	120	59	310,000	480
AOI-5 - Buildings Constructed Prior to 1981	MH-SB-29-0-0.5	7/8/2014	0	< 5.0	5.6	< 5.0	< 5.0	< 5.0	< 5.0	110	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-29-1.5-2	7/8/2014	1.5	< 5.0	100	28	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-30-0-0.5	7/8/2014	0	< 5.0	5.6	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-30-1.5-2	7/8/2014	1.5	< 5.0	18	5.7	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-32-0-0.5	7/8/2014	0	< 5.0	5.3	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-32-1.5-2	7/8/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-37-0-0.5	7/8/2014	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-37-1.5-2	7/8/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-38-0-0.5	7/8/2014	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-38-1.5-2	7/8/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-44-0-0.5	7/8/2014	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-44-1.5-2	7/8/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-45-0-0.5	7/8/2014	0	< 5.0	5.1	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-45-1.5-2	7/8/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-46-0-0.5	7/8/2014	0	< 5.0	11	5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-46-1.5-2	7/8/2014	1.5	< 5.0	5.4	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-46-1.5-2	7/8/2014	1.5	< 4.9	8.8	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.8	< 4.9	< 4.9	< 4.9	< 9.8	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200
	MH-SB-47-0-0.5	7/8/2014	0	< 5.0	13	5.1	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-47-1.5-2	7/8/2014	1.5	< 4.9	35	9.8	< 4.9	< 4.9	< 4.9	< 49	< 9.9	< 4.9	< 4.9	< 4.9	< 9.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200
	MH-SB-48-0-0.5	7/8/2014	0	< 4.9	9.1	9.1	< 4.9	< 4.9	< 4.9	< 49	< 9.8	< 4.9	< 4.9	< 4.9	< 9.8	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200
MH-SB-48-1.5-2	7/8/2014	1.5	< 5.0	11	7.3	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
MH-SB-62-0-0.5	7/8/2014	0	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.9	< 4.9	< 4.9	< 4.9	< 9.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200	
MH-SB-62-1.5-2	7/8/2014	1.5	< 5.0	5.1	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 10	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	

Notes:
µg/kg - micrograms per kilogram
Field duplicates are shown in italics
Pesticides by USEPA Method 8081A
DTSC - Department of Toxic Substances Control
USEPA - United States Environmental Protection Agency
RSLs - Regional Screening Levels
bgs - below ground surface
NA - not available
J - Results and or reporting limits are estimated

Table 1c. AOI-5 Lead in Soil

Malibu High School
 30215 Morning View Drive
 Malibu, California

Area of Interest (AOI)	Sample ID	Sample Date	Depth (feet bgs)	Lead in mg/kg
Residential DTSC-Modified RSL or USEPA RSL				80
AOI-5 - Buildings Constructed Prior to 1981	MH-SB-29-0-0.5	7/8/2014	0	6.5
	MH-SB-29-1.5-2	7/8/2014	1.5	< 3.9
	MH-SB-30-0-0.5	7/8/2014	0	5.7
	MH-SB-30-1.5-2	7/8/2014	1.5	3.6
	MH-SB-32-0-0.5	7/8/2014	0	2.2
	MH-SB-32-1.5-2	7/8/2014	1.5	3.2
	MH-SB-37-0-0.5	7/8/2014	0	9.2
	MH-SB-37-1.5-2	7/8/2014	1.5	< 3.9
	MH-SB-38-0-0.5	7/8/2014	0	27
	MH-SB-38-1.5-2	7/8/2014	1.5	4.1
	MH-SB-44-0-0.5	7/8/2014	0	29
	MH-SB-44-1.5-2	7/8/2014	1.5	< 4.0
	MH-SB-45-0-0.5	7/8/2014	0	36
	MH-SB-45-1.5-2	7/8/2014	1.5	< 4.0
	MH-SB-46-0-0.5	7/8/2014	0	8.1
	MH-SB-46-1.5-2	7/8/2014	1.5	< 4.0
	<i>MH-SB-46-1.5-2</i>	<i>7/8/2014</i>	<i>1.5</i>	<i>< 4.0</i>
	MH-SB-47-0-0.5	7/8/2014	0	7.7
	MH-SB-47-1.5-2	7/8/2014	1.5	4.5
	MH-SB-48-0-0.5	7/8/2014	0	13
	MH-SB-48-1.5-2	7/8/2014	1.5	10
	MH-SB-62-0-0.5	7/8/2014	0	2.2
	MH-SB-62-1.5-2	7/8/2014	1.5	3.3

Notes:

mg/kg - milligrams per kilogram

Field duplicates are shown in italics

Lead by USEPA Method 6010

DTSC - Department of Toxic Substances Control

USEPA - United States Environmental Protection Agency

RSLs - Regional Screening Levels

bgs - below ground surface

Table 2a. AOI-6 PCBs in Soil

Malibu High School
30215 Morning View Drive
Malibu, California

Area of Interest (AOI)	Sample ID	Sample Date	Depth (feet bgs)	PCBs in µg/kg						
				Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Residential DTSC-Modified RSL or USEPA RSL				4,000	150	150	240	240	240	240
AOI-6 - Areas Previously Excavated by Arcadis	MH-SB-40-0-0.5	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-40-1.5-2	7/8/2014	1.5	< 49	< 49	< 49	< 49	< 49	< 49	< 49
	MH-SB-49-0-0.5	7/8/2014	0	< 49	< 49	< 49	< 49	< 49	< 49	< 49
	MH-SB-49-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-50-0-0.5	7/7/2014	0	< 49	< 49	< 49	< 49	< 49	< 49	< 49
	MH-SB-50-0-0.5	7/7/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-50-1.5-2	7/7/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-51-0-0.5	7/7/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-51-1.5-2	7/7/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-52-0-0.5	7/7/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-52-1.5-2	7/7/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-53-0-0.5	7/7/2014	0	< 50	< 50	< 50	< 50	< 50	61	56
	MH-SB-53-1.5-2	7/7/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-56-0-0.5	7/7/2014	0	< 49	< 49	< 49	< 49	< 49	< 49	< 49
	MH-SB-56-1.5-2	7/7/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-57-0-0.5	7/7/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-57-1.5-2	7/7/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-58-0-0.5	7/7/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-58-1.5-2	7/7/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-59-0-0.5	7/7/2014	0	< 150	< 150	< 150	< 150	< 150	< 150	< 150
	MH-SB-59-1.5-2	7/7/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-60-0-0.5	7/7/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-60-1.5-2	7/7/2014	1.5	< 49	< 49	< 49	< 49	< 49	< 49	< 49
	MH-SB-61-0-0.5	7/7/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-61-1.5-2	7/7/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-63-0-0.5	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-63-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-64-0-0.5	7/8/2014	0	< 49	< 49	< 49	< 49	< 49	< 49	< 49
	MH-SB-64-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-65-0-0.5	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-65-1.5-2	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50

Notes:

µg/kg - micrograms per kilogram

Field duplicates are shown in italics

PCBs by USEPA Method 8082A

PCBs - Polychlorinated biphenyls

DTSC - Department of Toxic Substances Control

USEPA - United States Environmental Protection Agency

RSLs - Regional Screening Levels

bgs - below ground surface

Table 2b. AOI-6 Organophosphate Pesticides in Soil

Malibu High School
 30215 Morning View Drive
 Malibu, California

Area of Interest (AOI)	Sample ID	Sample Date	Depth (feet bgs)	Pesticides (Organophosphate) in µg/kg									
				2-Butenoic acid, 3- [(dimethoxy- phosphinyl)oxy]-, m	Chlorpyrifos	Co-Ral	Dasanit	Demeton (Demeton O + Demeton S)	Diazinon	Dichlorovos	Dimethoate	Disulfoton	Ethoprop
Residential DTSC-Modified RSL or USEPA RSL				NA	62,000	NA	NA	2,500	43,000	1,800	12,000	2,500	NA
AOI-6 - Areas Previously Excavated by Arcadis	MH-SB-50-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-50-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-50-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-51-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-51-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-52-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-52-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-53-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 65	< 33	< 33	< 33	< 33	< 33
	MH-SB-53-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-56-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-56-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-57-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-57-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-58-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-58-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-59-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-59-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-60-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-60-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
	MH-SB-61-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33
MH-SB-61-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 66	< 33	< 33	< 33	< 33	< 33	

Notes:

µg/kg - micrograms per kilogram

Field duplicates are shown in italics

DTSC - Department of Toxic Substances Control

USEPA- United States Environmental Protection Agency

RSLs - Regional Screening Level

Pesticides by USEPA Method 8141A

bgs - below ground surface

NA - not available

Table 2b. AOI-6 Organophosphate Pesticides in Soil

Malibu High School
30215 Morning View Drive
Malibu, California

Area of Interest (AOI)	Sample ID	Sample Date	Depth (feet bgs)	Pesticides (Organophosphate) in µg/kg							
				Ethyl P-Nitorphenyl Benzenethiophosphate	Famphur	Fenthion	Guthion	Malathion	Methyl parathion	O,O,O-Triethyl phosphorothioate	O-Ethyl O-2,4,5-trichlorophenyl ethyl-phosphonothioate
Residential DTSC-Modified RSL or USEPA RSL				620	NA	NA	NA	1,200,000	15,000	NA	NA
AOI-6 - Areas Previously Excavated by Arcadis	MH-SB-50-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-50-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-50-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-51-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-51-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-52-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-52-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-53-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-53-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-56-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-56-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-57-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-57-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-58-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-58-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-59-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-59-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-60-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
MH-SB-60-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33	
MH-SB-61-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33	
MH-SB-61-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33	

Notes:

µg/kg - micrograms per kilogram

Field duplicates are shown in italics

DTSC - Department of Toxic Substances Control

USEPA- United States Environmental Protection Agency

RSLs - Regional Screening Level

Pesticides by USEPA Method 8141A

bgs - below ground surface

NA - not available

Table 2b. AOI-6 Organophosphate Pesticides in Soil

Malibu High School
 30215 Morning View Drive
 Malibu, California

Area of Interest (AOI)	Sample ID	Sample Date	Depth (feet bgs)	Pesticides (Organophosphate) in µg/kg							
				Parathion	Phorate	Prothiophos	Ronnel	Stirophos	Sulfotepp	Sulprofos	Thionazin
Residential DTSC-Modified RSL or USEPA RSL				370,000	12,000	NA	3,100,000	22,000	31,000	NA	NA
AOI-6 - Areas Previously Excavated by Arcadis	MH-SB-50-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-50-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-50-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-51-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-51-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-52-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-52-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-53-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-53-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-56-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-56-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-57-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-57-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-58-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-58-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-59-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-59-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-60-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-60-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	MH-SB-61-0-0.5	7/7/2014	0	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
MH-SB-61-1.5-2	7/7/2014	1.5	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33	

Notes:

µg/kg - micrograms per kilogram

Field duplicates are shown in italics

DTSC - Department of Toxic Substances Control

USEPA- United States Environmental Protection Agency

RSLs - Regional Screening Level

Pesticides by USEPA Method 8141A

bgs - below ground surface

NA - not available

Table 2c. AOI-6 Organochlorine Pesticides in Soil
Malibu High School
30215 Morning View Drive
Malibu, California

Area of Interest (AOI)	Sample ID	Sample Date	Depth (feet bgs)	Pesticides (Organochlorine) in µg/kg																			
				4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-BHC	beta-BHC	Chlordane (total)	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
Residential DTSC-Modified RSL or USEPA RSL				2,200	1,600	1,900	31	85	300	1,800	NA	33	370,000	370,000	370,000	18,000	18,000	18,000	560	120	59	310,000	480
AOI-6 - Areas Previously Excavated by Arcadis	MH-SB-40-0-0.5	7/8/2014	0	< 5.0	11	5.3	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-40-1.5-2	7/8/2014	1.5	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.9	< 4.9	< 4.9	< 4.9	< 9.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200	
	MH-SB-49-0-0.5	7/8/2014	0	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.8	< 4.9	< 4.9	< 4.9	< 9.8	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200	
	MH-SB-49-1.5-2	7/8/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-50-0-0.5	7/7/2014	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-50-0-0.5	7/7/2014	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-50-1.5-2	7/7/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-51-0-0.5	7/7/2014	0	< 5.0	7.3	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-51-1.5-2	7/7/2014	1.5	< 5.0 J	6.3 J	< 5.0 J	< 5.0 J	< 5.0 J	< 5.0 J	< 50 J	< 9.9 J	< 5.0 J	< 5.0 J	< 5.0 J	< 9.9 J	< 5.0 J	< 5.0 J	< 5.0 J	< 5.0 J	< 5.0 J	< 5.0 J	< 200 J	
	MH-SB-52-0-0.5	7/7/2014	0	< 5.0	38	5.4	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-52-1.5-2	7/7/2014	1.5	< 5.0	430	37	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-53-0-0.5	7/7/2014	0	< 5.0	26	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-53-1.5-2	7/7/2014	1.5	< 5.0	22	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-56-0-0.5	7/7/2014	0	< 5.0	37	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-56-1.5-2	7/7/2014	1.5	< 5.0	11	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-57-0-0.5	7/7/2014	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-57-1.5-2	7/7/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-58-0-0.5	7/7/2014	0	< 4.9	8.2	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.9	< 4.9	< 4.9	< 4.9	< 9.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200	
	MH-SB-58-1.5-2	7/7/2014	1.5	< 5.0	7.5	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-59-0-0.5	7/7/2014	0	< 4.9	9.3	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.9	< 4.9	< 4.9	< 4.9	< 9.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200	
	MH-SB-59-1.5-2	7/7/2014	1.5	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.9	< 4.9	< 4.9	< 4.9	< 9.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200	
	MH-SB-60-0-0.5	7/7/2014	0	< 4.9	6.1	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.9	< 4.9	< 4.9	< 4.9	< 9.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200	
	MH-SB-60-1.5-2	7/7/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-61-0-0.5	7/7/2014	0	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.9	< 4.9	< 4.9	< 4.9	< 9.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200	
	MH-SB-61-1.5-2	7/7/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 10	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-63-0-0.5	7/8/2014	0	< 5.0	5.8	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-63-1.5-2	7/8/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-64-0-0.5	7/8/2014	0	< 4.9	6.8	5.1	< 4.9	< 4.9	< 4.9	< 49	< 9.8	< 4.9	< 4.9	< 4.9	< 9.8	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200	
	MH-SB-64-1.5-2	7/8/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 10	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-65-0-0.5	7/8/2014	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 10	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	
	MH-SB-65-1.5-2	7/8/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	

Notes:
µg/kg - micrograms per kilogram
Field duplicates are shown in italics
Pesticides by USEPA Method 8081A
DTSC - Department of Toxic Substances Control
USEPA - United States Environmental Protection Agency
RSLs - Regional Screening Levels
bgs - below ground surface
NA - not available
J - Results and or reporting limits are estimated

Table 2d. AOI-6 Herbicides in Soil

Malibu High School
 30215 Morning View Drive
 Malibu, California

Area of Interest (AOI)	Sample ID	Sample Date	Depth (feet bgs)	Herbicides in µg/kg		
				2,4,5-T	2,4,5-TP	2,4-D
Residential DTSC-Modified RSL or USEPA RSL				620,000	490,000	690,000
AOI-6 - Areas Previously Excavated by Arcadis	MH-SB-50-0-0.5	7/7/2014	0	< 20	< 20	< 80
	MH-SB-50-0-0.5	7/7/2014	0	< 20	< 20	< 80
	MH-SB-50-1.5-2	7/7/2014	1.5	< 20	< 20	< 80
	MH-SB-51-0-0.5	7/7/2014	0	< 20	< 20	< 80
	MH-SB-51-1.5-2	7/7/2014	1.5	< 20	< 20	< 80
	MH-SB-52-0-0.5	7/7/2014	0	< 20	< 20	< 80
	MH-SB-52-1.5-2	7/7/2014	1.5	< 20	< 20	< 80
	MH-SB-53-0-0.5	7/7/2014	0	< 20	< 20	< 80
	MH-SB-53-1.5-2	7/7/2014	1.5	< 20	< 20	< 80
	MH-SB-56-0-0.5	7/7/2014	0	< 20	< 20	< 79
	MH-SB-56-1.5-2	7/7/2014	1.5	< 20	< 20	< 80
	MH-SB-57-0-0.5	7/7/2014	0	< 20	< 20	< 80
	MH-SB-57-1.5-2	7/7/2014	1.5	< 20	< 20	< 80
	MH-SB-58-0-0.5	7/7/2014	0	< 20	< 20	< 80
	MH-SB-58-1.5-2	7/7/2014	1.5	< 20	< 20	< 80
	MH-SB-59-0-0.5	7/7/2014	0	< 20	< 20	< 80
	MH-SB-59-1.5-2	7/7/2014	1.5	< 20	< 20	< 80
	MH-SB-60-0-0.5	7/7/2014	0	< 20	< 20	< 80
	MH-SB-60-1.5-2	7/7/2014	1.5	< 20	< 20	< 80
	MH-SB-61-0-0.5	7/7/2014	0	< 20	< 20	< 80
	MH-SB-61-1.5-2	7/7/2014	1.5	< 20	< 20	< 80

Notes:

µg/kg - micrograms per kilogram

Field duplicates are shown in italics

Herbicides by USEPA Method 8151

DTSC - Department of Toxic Substances Control

USEPA - United States Environmental Protection Agency

RSLs - Regional Screening Levels

bgs - below ground surface

Table 3a. AOI-7 Organochlorine Pesticides in Soil

Malibu High School
30215 Morning View Drive
Malibu, California

Area of Interest (AOI)	Sample ID	Sample Date	Depth (feet bgs)	Pesticides (Organochlorine) in ug/kg																			
				4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-BHC	beta-BHC	Chlordane (total)	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
Residential DTSC-Modified RSL or USEPA RSL				2,200	1,600	1,900	31	85	300	1,800	NA	33	370,000	370,000	370,000	18,000	18,000	18,000	560	120	59	310,000	480
AOI-7 - Open Areas Around and in Between Older Buildings Within AOI-5	MH-SB-31-0-0.5	7/8/2014	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-31-1.5-2	7/8/2014	1.5	< 5.0	7.2	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-33-0-0.5	7/8/2014	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-33-1.5-2	7/8/2014	1.5	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.9	< 4.9	< 4.9	< 4.9	< 9.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200
	MH-SB-34-0-0.5	7/8/2014	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200
	MH-SB-34-1.5-2	7/8/2014	1.5	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.8	< 4.9	< 4.9	< 4.9	< 9.8	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200
	MH-SB-35-0-0.5	7/8/2014	0	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.9	< 4.9	< 4.9	< 4.9	< 9.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200
	MH-SB-35-1.5-2	7/8/2014	1.5	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.9	< 4.9	< 4.9	< 4.9	< 9.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200
	MH-SB-36-0-0.5	7/8/2014	0	< 4.9	60	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.8	< 4.9	< 4.9	< 4.9	< 9.8	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200
	MH-SB-36-1.5-2	7/8/2014	1.5	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.9	< 4.9	< 4.9	< 4.9	< 9.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200
	MH-SB-39-0-0.5	7/8/2014	0	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 49	< 9.9	< 4.9	< 4.9	< 4.9	< 9.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 200
	MH-SB-39-1.5-2	7/8/2014	1.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 9.9	< 5.0	< 5.0	< 5.0	< 9.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200

Notes:
µg/kg - micrograms per kilogram
Field duplicates are shown in italics
Pesticides by USEPA Method 8081A
DTSC - Department of Toxic Substances Control
USEPA - United States Environmental Protection Agency
RSLs - Regional Screening Levels
bgs - below ground surface
NA - not available

Table 3b. AOI-7 Metals in Soil
Malibu High School
30215 Morning View Drive
Malibu, California

Area of Interest (AOI)	Sample ID	Sample Date	Depth (feet bgs)	Metals in mg/kg																
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (total)	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
Residential DTSC-Modified RSL or USEPA RSL				31	12 ^a	15,000	16	4.6	120,000	23	3100	80	390	1500	390	390	0.78 ^b	390	23,000	9.4
AOI-7 - Open Areas Around and in Between Older Buildings Within AOI-5	MH-SB-31-0-0.5	7/8/2014	0	< 10 J	< 3.0	110 J	< 0.50	1.4	43	12	20	4.0	< 2.0	42	< 3.0 J	< 1.5	< 10	46	80 J	0.054
	MH-SB-31-1.5-2	7/8/2014	1.5	< 9.9 J	< 3.0	73 J	< 0.49	1.2	44	15	18	2.7	< 2.0	47	< 3.0 J	< 1.5	< 9.9	46	27 J	0.025
	MH-SB-33-0-0.5	7/8/2014	0	< 9.8 J	3.6	96 J	< 0.49	1.5	54	17	24	2.6	< 2.0	57	< 2.9 J	< 1.5	< 9.8	58	41 J	0.046
	MH-SB-33-1.5-2	7/8/2014	1.5	< 9.9 J	3.5	160 J	< 0.50	1.8	51	13	22	4.6	< 2.0	48	< 3.0 J	< 1.5	< 9.9	68	57 J	0.18
	MH-SB-34-0-0.5	7/8/2014	0	< 9.8 J	6.3	96 J	< 0.49	3.1	28	7.4	19	5.0	7.8	36	< 2.9 J	< 1.5	< 9.8	58	60 J	0.036
	MH-SB-34-1.5-2	7/8/2014	1.5	< 20 J	< 6.0	84 J	< 1.0	1.5	57	19	25	< 4.0	< 4.0	70	< 6.0 J	< 3.0	< 20	66	51 J	0.043
	MH-SB-35-0-0.5	7/8/2014	0	< 10 J	< 3.0	56 J	< 0.50	0.54	18	5.0	10	3.7	< 2.0	13	< 3.0 J	< 1.5	< 10	24	45 J	0.032
	MH-SB-35-0-0.5	7/8/2014	0	< 9.9 J	< 3.0	41 J	< 0.49	< 0.49	14	4.5	7.7	2.5	< 2.0	12	< 3.0 J	< 1.5	< 9.9	19	31 J	0.049
	MH-SB-35-1.5-2	7/8/2014	1.5	< 10 J	3.6	110 J	< 0.50	1.6	50	13	21	7.9	< 2.0	46	< 3.0 J	< 1.5	< 10	51	52 J	0.047
	MH-SB-36-0-0.5	7/8/2014	0	< 10 J	4.1	95 J	< 0.50	2.0	65	12	26	28	< 2.0	43	< 3.0 J	< 1.5	< 10	46	180 J	0.11
	MH-SB-36-1.5-2	7/8/2014	1.5	< 9.8 J	2.9	140 J	< 0.49	1.3	43	16	20	3.1	< 2.0	48	< 2.9 J	< 1.5	< 9.8	44	28 J	< 0.020
	MH-SB-39-0-0.5	7/8/2014	0	< 10 J	3.5	91 J	< 0.50	1.2	33	9.9	21	8.5	< 2.0	29	< 3.0 J	< 1.5	< 10	41	390 J	0.034
	MH-SB-39-1.5-2	7/8/2014	1.5	< 20 J	< 5.9	90 J	< 0.99	1.7	55	17	21	< 4.0	< 4.0	59	< 5.9 J	< 3.0	< 20	60	42 J	0.029

Notes:
mg/kg - milligrams per kilogram
Field duplicates are shown in italics
Metals by USEPA Method 6010/7471
DTSC - Department of Toxic Substances Control
USEPA - United States Environmental Protection Agency
RSLs - Regional Screening Levels
bgs - below ground surface
J - Results and or reporting limits are estimated
^a - Arsenic occurs naturally in Southern California soil at concentrations exceeding the residential RSL; DTSC has determined that the Southern California regional background soil concentration for arsenic is 12 mg/kg.
(Chernoff G, Bosan W, Oudiz D. 2008. Determination of a Southern California Regional Background Arsenic Concentration in Soil)
^b - As specified in the DTSC-approved PEA Work Plan, the reporting limit for thallium exceeds the RSL. As all results are non-detect, values are not bolded.

Table 4. AOI-17 PCBs in Soil

Malibu High School
 30215 Morning View Drive
 Malibu, California

Area of Interest (AOI)	Sample ID	Sample Date	Depth (feet bgs)	PCBs in µg/kg						
				Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Residential DTSC-Modified RSL or USEPA RSL				4000	150	150	240	240	240	240
AOI-17 -Electrical Transformers	MH-SB-27A	7/8/2014	0	< 49	< 49	< 49	< 49	< 49	< 49	< 49
	MH-SB-27A	7/8/2014	1.5	< 49	< 49	< 49	< 49	< 49	< 49	< 49
	MH-SB-27B	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-27B	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-28A	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-28A	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-28B	7/8/2014	0	< 50 J	< 50 J	< 50 J	< 50 J	< 50 J	< 50 J	< 50 J
	MH-SB-28B	7/8/2014	0	< 50	< 50	< 50	< 50	< 50	< 50	< 50
	MH-SB-28B	7/8/2014	1.5	< 50	< 50	< 50	< 50	< 50	< 50	< 50

Notes:

µg/kg - micrograms per kilogram

Field duplicates are shown in italics

PCBs by USEPA Method 8082A

PCBs - Polychlorinated biphenyls

DTSC - Department of Toxic Substances Control

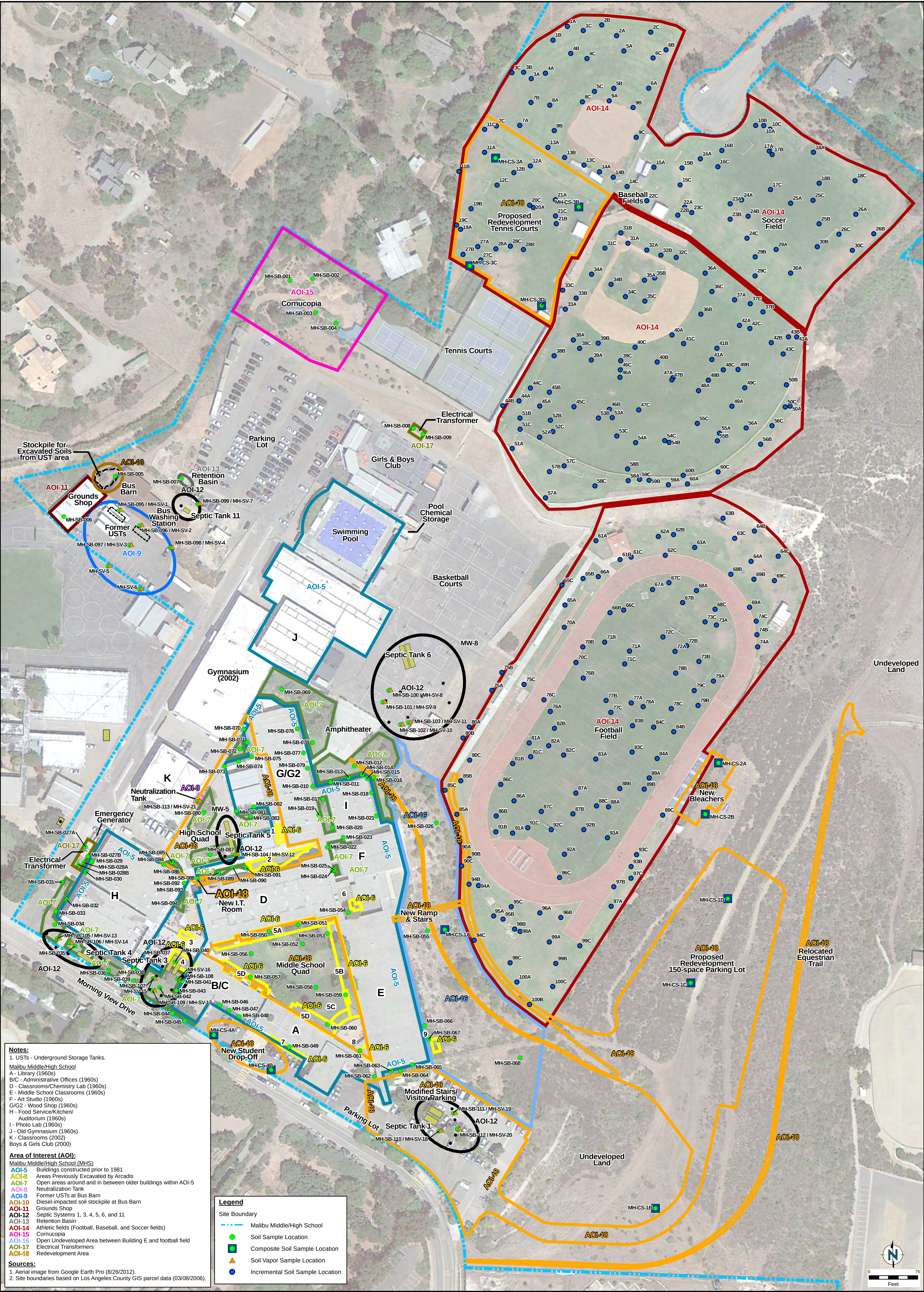
USEPA - United States Environmental Protection Agency

RSLs - Regional Screening Levels

bgs - below ground surface

J - Results and/or reporting limits are estimated

Figure



Notes:
1. USTs - Underground Storage Tanks.
Malibu Middle/High School
A - Library (1960s)
B/C - Administrative Offices (1960s)
D - Classrooms/Chemistry Lab (1960s)
E - Middle School Classrooms (1960s)
F - Art Studio (1960s)
G/G2 - Wood Shop (1960s)
H - Food Service/Kitchen/Auditorium (1960s)
I - Photo Lab (1960s)
J - Old Gymnasium (1960s)
K - Classrooms (2002)
Boys & Girls Club (2000)

Area of Interest (AOI):
Malibu Middle/High School (MHS)
AOI-5 Buildings constructed prior to 1981
AOI-6 Areas Previously Excavated by Arcadis
AOI-7 Open areas around and in between older buildings within AOI-5
AOI-8 Neutralization Tank
AOI-9 Former USTs at Bus Barn
AOI-10 Diesel-impacted soil stockpile at Bus Barn
AOI-11 Grounds Shop
AOI-12 Septic Systems 1, 3, 4, 5, 6, and 11
AOI-13 Retention Basin
AOI-14 Athletic fields (Football, Baseball, and Soccer fields)
AOI-15 Cornucopia
AOI-16 Open Undeveloped Area between Building E and football field
AOI-17 Electrical Transformers
AOI-18 Redevelopment Area

Sources:
1. Aerial image from Google Earth Pro (8/26/2012).
2. Site boundaries based on Los Angeles County GIS parcel data (03/08/2006).

Legend
Site Boundary
--- Malibu Middle/High School
● Soil Sample Location
■ Composite Soil Sample Location
▲ Soil Vapor Sample Location
● Incremental Soil Sample Location

Soil and Soil Gas Sampling Locations on Malibu High School

Appendix A

Laboratory and Validation Reports

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-82503-1

Client Project/Site: SMMUSD

Revision: 2

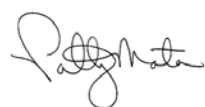
For:

ENVIRON International Corp.

18100 Von Karman Avenue

Irvine, California 92612

Attn: Safaa Dergham



Authorized for release by:

8/8/2014 2:22:31 PM

Patty Mata, Senior Project Manager

(949)261-1022

patty.mata@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-82503-20	MH-SB-61-0-0.5	Solid	07/07/14 13:11	07/07/14 18:20
440-82503-21	MH-SB-61-1.5-2	Solid	07/07/14 13:21	07/07/14 18:20
440-82503-22	MH-SB-60-0-0.5	Solid	07/07/14 13:29	07/07/14 18:20
440-82503-23	MH-SB-60-1.5-2	Solid	07/07/14 13:32	07/07/14 18:20
440-82503-24	MH-SB-59-0-0.5	Solid	07/07/14 13:36	07/07/14 18:20
440-82503-25	MH-SB-59-1.5-2	Solid	07/07/14 13:38	07/07/14 18:20
440-82503-26	MH-SB-58-0-0.5	Solid	07/07/14 13:40	07/07/14 18:20
440-82503-27	MH-SB-58-1.5-2	Solid	07/07/14 13:48	07/07/14 18:20
440-82503-28	MH-SB-57-0-0.5	Solid	07/07/14 13:55	07/07/14 18:20
440-82503-29	MH-SB-57-1.5-2	Solid	07/07/14 14:00	07/07/14 18:20
440-82503-30	MH-SB-56-0-0.5	Solid	07/07/14 14:04	07/07/14 18:20
440-82503-31	MH-SB-56-1.5-2	Solid	07/07/14 14:10	07/07/14 18:20
440-82503-32	MH-SB-50-0-0.5	Solid	07/07/14 14:11	07/07/14 18:20
440-82503-33	MH-SB-50-1.5-2	Solid	07/07/14 14:17	07/07/14 18:20
440-82503-34	MH-SB-50-0-0.5-FD	Solid	07/07/14 14:19	07/07/14 18:20
440-82503-35	MH-SB-51-0-0.5	Solid	07/07/14 14:28	07/07/14 18:20
440-82503-36	MH-SB-51-1.5-2	Solid	07/07/14 14:31	07/07/14 18:20
440-82503-37	MH-SB-53-0-0.5	Solid	07/07/14 14:35	07/07/14 18:20
440-82503-38	MH-SB-53-1.5-2	Solid	07/07/14 14:39	07/07/14 18:20
440-82503-39	MH-SB-52-0-0.5	Solid	07/07/14 14:43	07/07/14 18:20
440-82503-40	MH-SB-52-1.5-2	Solid	07/07/14 14:50	07/07/14 18:20

Case Narrative

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Job ID: 440-82503-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-82503-1

Comments

Only the results for samples with IDs that start with "MH" are included in this report.

Receipt

The samples were received on 7/7/2014 6:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.9° C and 3.1° C.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC

Method(s) 8015B: Surrogate recovery for the following sample was outside control limits: JC-SB-59-4.5-5 (440-82503-5). Re-extraction and/or re-analysis was performed with concurring results.

Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 192554 were outside control limits. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries met acceptance criteria.

Method(s) 8141A: The continuing calibration verification (CCV) associated with batch 111241, 111242 and 111307 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (LCS 180-111242/2-A), (MB 180-111242/1-A), JC-SB-31-0-0.5 (440-82503-9), JC-SB-31-1.5-2 (440-82503-10), JC-SB-32-0-0.5 (440-82503-11), JC-SB-32-0-0.5 (440-82503-11 MS), JC-SB-32-0-0.5 (440-82503-11 MSD), JC-SB-32-1.5-2 (440-82503-12), JC-SB-32-1.5-2-FD (440-82503-13), JC-SB-42-0-0.5 (440-82503-14), JC-SB-42-1.5-2 (440-82503-15), MH-SB-50-0-0.5 (440-82503-32), MH-SB-56-0-0.5 (440-82503-30), MH-SB-56-1.5-2 (440-82503-31), MH-SB-57-0-0.5 (440-82503-28), MH-SB-57-1.5-2 (440-82503-29), MH-SB-58-0-0.5 (440-82503-26), MH-SB-58-1.5-2 (440-82503-27), MH-SB-59-0-0.5 (440-82503-24), MH-SB-59-1.5-2 (440-82503-25), MH-SB-60-0-0.5 (440-82503-22), MH-SB-60-1.5-2 (440-82503-23), MH-SB-61-0-0.5 (440-82503-20), MH-SB-61-1.5-2 (440-82503-21). The associated LCS also recovered high for selected compounds, but all affected compounds were ND in samples.

Method(s) 8141A: The continuing calibration verification (CCV) associated with batch 111571 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (LCS 180-111571/2-A), (MB 180-111571/1-A), MH-SB-50-0-0.5-FD (440-82503-34), MH-SB-50-1.5-2 (440-82503-33), MH-SB-50-1.5-2 (440-82503-33 MS), MH-SB-50-1.5-2 (440-82503-33 MSD), MH-SB-51-0-0.5 (440-82503-35), MH-SB-51-1.5-2 (440-82503-36), MH-SB-52-0-0.5 (440-82503-39), MH-SB-52-1.5-2 (440-82503-40), MH-SB-53-0-0.5 (440-82503-37), MH-SB-53-1.5-2 (440-82503-38).

Method(s) 8141A: Surrogate recovery for the following sample was outside the upper control limit: JC-SB-32-0-0.5 (440-82503-11). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8015B: Due to the relatively high concentration of C10-C28 in the batch QC source sample, the matrix spike / matrix spike duplicate (MS/MSD) for batch 192829 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8015B: Surrogate recovery for the following sample was outside control limits: JC-SB-59-24.5-25 (440-82503-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 193643 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8081A: Surrogate recovery for the following sample was outside control limits: MH-SB-51-1.5-2 (440-82503-36). Evidence of

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Laboratory: TestAmerica Irvine (Continued)

matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8081A: The closing continuing calibration verification (CCV) standard associated with batch 194035 failed to meet acceptance limits on both columns used for the analysis. The associated samples were re-analyzed following a successful CCV and produced similar results, indicating that the sample matrix is adversely affecting the columns and causing the failures: (CCV 440-194035/36), JC-SB-31-0-0.5 (440-82503-9), JC-SB-32-0-0.5 (440-82503-11), JC-SB-32-1.5-2 (440-82503-12), JC-SB-32-1.5-2-FD (440-82503-13), MH-SB-51-0-0.5 (440-82503-35), MH-SB-51-1.5-2 (440-82503-36), MH-SB-53-1.5-2 (440-82503-38).

Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) precision values for selected analytes in batch 193676 were outside control limits. Sample matrix interference is suspected.

Method(s) 8081A: The closing continuing calibration verification (CCV) standard associated with batch 194574 failed to meet acceptance limits on both columns used for the analysis. The associated samples were re-analyzed following a successful CCV and produced similar results, indicating that the sample matrix is adversely affecting the columns and causing the failures: (CCV 440-194574/31), JC-SB-42-0-0.5 (440-82503-14), JC-SB-42-1.5-2 (440-82503-15), MH-SB-50-0-0.5-FD (440-82503-34), MH-SB-50-1.5-2 (440-82503-33), MH-SB-60-0-0.5 (440-82503-22), MH-SB-61-0-0.5 (440-82503-20), MH-SB-61-1.5-2 (440-82503-21).

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 194574 recovered above the upper control limit for Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVRT 440-194574/8), JC-SB-42-0-0.5 (440-82503-14), JC-SB-42-1.5-2 (440-82503-15), MH-SB-50-0-0.5-FD (440-82503-34), MH-SB-50-1.5-2 (440-82503-33), MH-SB-60-0-0.5 (440-82503-22), MH-SB-61-0-0.5 (440-82503-20), MH-SB-61-1.5-2 (440-82503-21).

Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and/or precision values for batch 194027 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 194843 recovered above the upper control limit for 4,4-DDD, Endrin aldehyde, Endrin ketone, Heptachlor and Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 194607 was outside control limits. Sample matrix interference is suspected.

Method(s) 8081A: The closing continuing calibration verification (CCV) standard associated with batch 194846 failed to meet acceptance limits on both columns used for the analysis. The associated samples were re-analyzed following a successful CCV and produced similar results, indicating that the sample matrix is adversely affecting the columns and causing the failures.

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 195005 recovered above the upper control limit for delta BHC. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVRT 440-195005/8), MH-SB-50-0-0.5 (440-82503-32), MH-SB-56-0-0.5 (440-82503-30), MH-SB-56-1.5-2 (440-82503-31), MH-SB-57-0-0.5 (440-82503-28), MH-SB-57-1.5-2 (440-82503-29), MH-SB-58-0-0.5 (440-82503-26), MH-SB-58-1.5-2 (440-82503-27), MH-SB-59-0-0.5 (440-82503-24), MH-SB-59-1.5-2 (440-82503-25), MH-SB-60-1.5-2 (440-82503-23).

Method(s) 8081A: The closing continuing calibration verification (CCV) standard associated with batch 195005 failed to meet acceptance limits on both columns used for the analysis. The associated samples were re-analyzed following a successful CCV and produced similar results, indicating that the sample matrix is adversely affecting the columns and causing the failures: (CCV 440-195005/38), MH-SB-50-0-0.5 (440-82503-32), MH-SB-56-0-0.5 (440-82503-30), MH-SB-56-1.5-2 (440-82503-31), MH-SB-57-0-0.5 (440-82503-28), MH-SB-57-1.5-2 (440-82503-29), MH-SB-58-0-0.5 (440-82503-26), MH-SB-58-1.5-2 (440-82503-27), MH-SB-59-0-0.5 (440-82503-24), MH-SB-59-1.5-2 (440-82503-25), MH-SB-60-1.5-2 (440-82503-23).

Method(s) 8082: Surrogate recovery for the following sample was outside the upper control limit: MH-SB-58-0-0.5 (440-82503-26). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: The following sample(s) required copper clean-up to reduce matrix interferences caused by sulfur: (LCS

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440-193419/2-A), (MB 440-193419/1-A), JC-SB-32-0-0.5 (440-82503-11), JC-SB-32-0-0.5 (440-82503-11 MS), JC-SB-32-0-0.5 (440-82503-11 MSD), MH-SB-50-0-0.5-FD (440-82503-34).

Method(s) 8082: The following sample(s) required copper clean-up to reduce matrix interferences caused by sulfur: (LCS 440-193676/24-A), (MB 440-193676/1-A), (440-82362-19), (440-82362-19 MS), (440-82362-19 MSD), MH-SB-51-0-0.5 (440-82503-35), MH-SB-51-1.5-2 (440-82503-36), MH-SB-60-0-0.5 (440-82503-22).

Method(s) 8082: The following sample(s) required copper clean-up to reduce matrix interferences caused by sulfur: (LCS 440-194607/5-A), (MB 440-194607/1-A), (440-82809-31), (440-82809-31 MS), (440-82809-31 MSD).

Method(s) 8082: The following sample contained more than one Aroclor with insufficient separation to quantify individually: MH-SB-53-0-0.5 (440-82503-37). The PCBs present were quantified as the predominant Aroclor.

Method(s) 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for batch 194607 were outside control limits for Aroclor 1260. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Antimony in batch 192804 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The following samples were diluted due to the nature of the sample matrix: JC-SB-58-34.5-35 (440-82503-4), JC-SB-59-14.5-15 (440-82503-6), JC-SB-59-24.5-25 (440-82503-7), JC-SB-59-34.5-35 (440-82503-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3546 / 8270C: Due to the matrix, the following sample could not be concentrated to the final method required volume: JC-SB-59-4.5-5 (440-82503-5). The reporting limits (RLs) are elevated proportionately.

Method(s) 3546 / 8082: The following samples had smaller than usual initial amounts used for prep due to the nature of the sample matrix: JC-SB-42-0-0.5 (440-82503-14), MH-SB-59-0-0.5 (440-82503-24). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-61-0-0.5

Lab Sample ID: 440-82503-20

Date Collected: 07/07/14 13:11

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
4,4'-DDE	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
4,4'-DDT	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
Aldrin	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
alpha-BHC	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
beta-BHC	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
Chlordane (technical)	ND		49	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
delta-BHC	ND		9.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
Dieldrin	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
Endosulfan I	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
Endosulfan II	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
Endrin	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
Endrin aldehyde	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
Endrin ketone	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
Heptachlor	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
Methoxychlor	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:20	1
Toxaphene	ND		200	ug/Kg		07/15/14 12:02	07/17/14 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		35 - 115	07/15/14 12:02	07/17/14 19:20	1
DCB Decachlorobiphenyl (Surr)	78		45 - 120	07/15/14 12:02	07/17/14 19:20	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/11/14 11:59	07/14/14 15:55	1
Aroclor 1221	ND		50	ug/Kg		07/11/14 11:59	07/14/14 15:55	1
Aroclor 1232	ND		50	ug/Kg		07/11/14 11:59	07/14/14 15:55	1
Aroclor 1242	ND		50	ug/Kg		07/11/14 11:59	07/14/14 15:55	1
Aroclor 1248	ND		50	ug/Kg		07/11/14 11:59	07/14/14 15:55	1
Aroclor 1254	ND		50	ug/Kg		07/11/14 11:59	07/14/14 15:55	1
Aroclor 1260	ND		50	ug/Kg		07/11/14 11:59	07/14/14 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	95		45 - 120	07/11/14 11:59	07/14/14 15:55	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Bolstar	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Chlorpyrifos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Coumaphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Demeton, Total	ND		66	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Diazinon	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Dichlorvos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Dimethoate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Disulfoton	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
EPN	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-61-0-0.5

Lab Sample ID: 440-82503-20

Date Collected: 07/07/14 13:11

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Fensulfothion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Fenthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Malathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Methyl parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Mevinphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Phorate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Ronnel	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Stirophos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Sulfotepp	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Tokuthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Trichloronate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Mocap	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Thionazin	ND *		33	ug/Kg		07/12/14 03:15	07/14/14 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Triphenylphosphate	108		55 - 125			07/12/14 03:15	07/14/14 14:12	1
Tributyl phosphate	97		47 - 130			07/12/14 03:15	07/14/14 14:12	1

Client Sample ID: MH-SB-61-1.5-2

Lab Sample ID: 440-82503-21

Date Collected: 07/07/14 13:21

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
4,4'-DDE	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
4,4'-DDT	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Aldrin	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
alpha-BHC	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
beta-BHC	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Chlordane (technical)	ND		50	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
delta-BHC	ND		10	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Dieldrin	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Endosulfan I	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Endosulfan II	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Endosulfan sulfate	ND		10	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Endrin	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Endrin aldehyde	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Endrin ketone	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Heptachlor	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Methoxychlor	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Toxaphene	ND		200	ug/Kg		07/15/14 12:02	07/17/14 19:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		35 - 115			07/15/14 12:02	07/17/14 19:33	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-61-1.5-2

Lab Sample ID: 440-82503-21

Date Collected: 07/07/14 13:21

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	79		45 - 120	07/15/14 12:02	07/17/14 19:33	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/11/14 11:59	07/14/14 16:11	1
Aroclor 1221	ND		50	ug/Kg		07/11/14 11:59	07/14/14 16:11	1
Aroclor 1232	ND		50	ug/Kg		07/11/14 11:59	07/14/14 16:11	1
Aroclor 1242	ND		50	ug/Kg		07/11/14 11:59	07/14/14 16:11	1
Aroclor 1248	ND		50	ug/Kg		07/11/14 11:59	07/14/14 16:11	1
Aroclor 1254	ND		50	ug/Kg		07/11/14 11:59	07/14/14 16:11	1
Aroclor 1260	ND		50	ug/Kg		07/11/14 11:59	07/14/14 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	103		45 - 120	07/11/14 11:59	07/14/14 16:11	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Bolstar	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Chlorpyrifos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Coumaphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Demeton, Total	ND		66	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Diazinon	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Dichlorvos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Dimethoate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Disulfoton	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
EPN	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Famphur	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Fensulfothion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Fenthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Malathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Methyl parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Mevinphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Phorate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Ronnel	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Stirophos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Sulfotepp	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Tokuthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Trichloronate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Mocap	ND		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1
Thionazin	ND *		33	ug/Kg		07/12/14 03:15	07/14/14 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	112		55 - 125	07/12/14 03:15	07/14/14 14:46	1
Tributyl phosphate	103		47 - 130	07/12/14 03:15	07/14/14 14:46	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-60-0-0.5

Lab Sample ID: 440-82503-22

Date Collected: 07/07/14 13:29

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
4,4'-DDE	6.1		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
4,4'-DDT	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
Aldrin	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
alpha-BHC	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
beta-BHC	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
Chlordane (technical)	ND		49	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
delta-BHC	ND		9.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
Dieldrin	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
Endosulfan I	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
Endosulfan II	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
Endrin	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
Endrin aldehyde	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
Endrin ketone	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
Heptachlor	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
Methoxychlor	ND		4.9	ug/Kg		07/15/14 12:02	07/17/14 19:47	1
Toxaphene	ND		200	ug/Kg		07/15/14 12:02	07/17/14 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74	p	35 - 115	07/15/14 12:02	07/17/14 19:47	1
DCB Decachlorobiphenyl (Surr)	66		45 - 120	07/15/14 12:02	07/17/14 19:47	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/11/14 11:59	07/15/14 09:40	1
Aroclor 1221	ND		50	ug/Kg		07/11/14 11:59	07/15/14 09:40	1
Aroclor 1232	ND		50	ug/Kg		07/11/14 11:59	07/15/14 09:40	1
Aroclor 1242	ND		50	ug/Kg		07/11/14 11:59	07/15/14 09:40	1
Aroclor 1248	ND		50	ug/Kg		07/11/14 11:59	07/15/14 09:40	1
Aroclor 1254	ND		50	ug/Kg		07/11/14 11:59	07/15/14 09:40	1
Aroclor 1260	ND		50	ug/Kg		07/11/14 11:59	07/15/14 09:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	77		45 - 120	07/11/14 11:59	07/15/14 09:40	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Bolstar	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Chlorpyrifos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Coumaphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Demeton, Total	ND		66	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Diazinon	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Dichlorvos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Dimethoate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Disulfoton	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
EPN	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-60-0-0.5

Lab Sample ID: 440-82503-22

Date Collected: 07/07/14 13:29

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Fensulfothion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Fenthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Malathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Methyl parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Mevinphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Phorate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Ronnel	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Stirophos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Sulfotepp	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Tokuthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Trichloronate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Mocap	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Thionazin	ND *		33	ug/Kg		07/12/14 03:15	07/14/14 15:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Triphenylphosphate	103		55 - 125			07/12/14 03:15	07/14/14 15:20	1
Tributyl phosphate	96		47 - 130			07/12/14 03:15	07/14/14 15:20	1

Client Sample ID: MH-SB-60-1.5-2

Lab Sample ID: 440-82503-23

Date Collected: 07/07/14 13:32

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
4,4'-DDE	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
4,4'-DDT	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Aldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
alpha-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
beta-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Chlordane (technical)	ND		50	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Dieldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Endosulfan I	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Endosulfan II	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Endrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Endrin aldehyde	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Endrin ketone	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Heptachlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Methoxychlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 13:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		35 - 115			07/17/14 12:29	07/19/14 13:48	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-60-1.5-2

Lab Sample ID: 440-82503-23

Date Collected: 07/07/14 13:32

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	74		45 - 120	07/17/14 12:29	07/19/14 13:48	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	ug/Kg		07/11/14 11:59	07/14/14 16:43	1
Aroclor 1221	ND		49	ug/Kg		07/11/14 11:59	07/14/14 16:43	1
Aroclor 1232	ND		49	ug/Kg		07/11/14 11:59	07/14/14 16:43	1
Aroclor 1242	ND		49	ug/Kg		07/11/14 11:59	07/14/14 16:43	1
Aroclor 1248	ND		49	ug/Kg		07/11/14 11:59	07/14/14 16:43	1
Aroclor 1254	ND		49	ug/Kg		07/11/14 11:59	07/14/14 16:43	1
Aroclor 1260	ND		49	ug/Kg		07/11/14 11:59	07/14/14 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	76		45 - 120	07/11/14 11:59	07/14/14 16:43	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Bolstar	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Chlorpyrifos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Coumaphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Demeton, Total	ND		66	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Diazinon	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Dichlorvos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Dimethoate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Disulfoton	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
EPN	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Famphur	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Fensulfothion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Fenthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Malathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Methyl parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Mevinphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Phorate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Ronnel	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Stirophos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Sulfotepp	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Tokuthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Trichloronate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Mocap	ND		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1
Thionazin	ND *		33	ug/Kg		07/12/14 03:15	07/14/14 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	102		55 - 125	07/12/14 03:15	07/14/14 15:53	1
Tributyl phosphate	93		47 - 130	07/12/14 03:15	07/14/14 15:53	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-59-0-0.5

Lab Sample ID: 440-82503-24

Date Collected: 07/07/14 13:36

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
4,4'-DDE	9.3		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
4,4'-DDT	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
Aldrin	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
alpha-BHC	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
beta-BHC	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
Chlordane (technical)	ND		49	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
Dieldrin	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
Endosulfan I	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
Endosulfan II	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
Endrin	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
Endrin aldehyde	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
Endrin ketone	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
Heptachlor	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
Methoxychlor	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:18	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58	p	35 - 115	07/17/14 12:29	07/19/14 14:18	1
DCB Decachlorobiphenyl (Surr)	68		45 - 120	07/17/14 12:29	07/19/14 14:18	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		150	ug/Kg		07/11/14 11:59	07/14/14 16:59	1
Aroclor 1221	ND		150	ug/Kg		07/11/14 11:59	07/14/14 16:59	1
Aroclor 1232	ND		150	ug/Kg		07/11/14 11:59	07/14/14 16:59	1
Aroclor 1242	ND		150	ug/Kg		07/11/14 11:59	07/14/14 16:59	1
Aroclor 1248	ND		150	ug/Kg		07/11/14 11:59	07/14/14 16:59	1
Aroclor 1254	ND		150	ug/Kg		07/11/14 11:59	07/14/14 16:59	1
Aroclor 1260	ND		150	ug/Kg		07/11/14 11:59	07/14/14 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	108		45 - 120	07/11/14 11:59	07/14/14 16:59	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Bolstar	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Chlorpyrifos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Coumaphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Demeton, Total	ND		66	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Diazinon	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Dichlorvos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Dimethoate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Disulfoton	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
EPN	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-59-0-0.5

Lab Sample ID: 440-82503-24

Date Collected: 07/07/14 13:36

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Fensulfothion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Fenthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Malathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Methyl parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Mevinphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Phorate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Ronnel	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Stirophos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Sulfotepp	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Tokuthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Trichloronate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Mocap	ND		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Thionazin	ND *		33	ug/Kg		07/12/14 03:15	07/14/14 16:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Triphenylphosphate	105		55 - 125			07/12/14 03:15	07/14/14 16:27	1
Tributyl phosphate	96		47 - 130			07/12/14 03:15	07/14/14 16:27	1

Client Sample ID: MH-SB-59-1.5-2

Lab Sample ID: 440-82503-25

Date Collected: 07/07/14 13:38

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
4,4'-DDE	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
4,4'-DDT	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Aldrin	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
alpha-BHC	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
beta-BHC	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Chlordane (technical)	ND		49	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Dieldrin	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Endosulfan I	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Endosulfan II	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Endrin	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Endrin aldehyde	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Endrin ketone	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Heptachlor	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Methoxychlor	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 14:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	43	p	35 - 115			07/17/14 12:29	07/19/14 14:32	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-59-1.5-2

Lab Sample ID: 440-82503-25

Date Collected: 07/07/14 13:38

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	70		45 - 120	07/17/14 12:29	07/19/14 14:32	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/11/14 11:59	07/14/14 17:47	1
Aroclor 1221	ND		50	ug/Kg		07/11/14 11:59	07/14/14 17:47	1
Aroclor 1232	ND		50	ug/Kg		07/11/14 11:59	07/14/14 17:47	1
Aroclor 1242	ND		50	ug/Kg		07/11/14 11:59	07/14/14 17:47	1
Aroclor 1248	ND		50	ug/Kg		07/11/14 11:59	07/14/14 17:47	1
Aroclor 1254	ND		50	ug/Kg		07/11/14 11:59	07/14/14 17:47	1
Aroclor 1260	ND		50	ug/Kg		07/11/14 11:59	07/14/14 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	79		45 - 120	07/11/14 11:59	07/14/14 17:47	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Bolstar	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Chlorpyrifos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Coumaphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Demeton, Total	ND		66	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Diazinon	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Dichlorvos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Dimethoate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Disulfoton	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
EPN	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Famphur	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Fensulfothion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Fenthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Malathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Methyl parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Mevinphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Phorate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Ronnel	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Stirophos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Sulfotepp	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Tokuthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Trichloronate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Mocap	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1
Thionazin	ND *		33	ug/Kg		07/12/14 03:15	07/14/14 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	125		55 - 125	07/12/14 03:15	07/14/14 18:08	1
Tributyl phosphate	117		47 - 130	07/12/14 03:15	07/14/14 18:08	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-58-0-0.5

Lab Sample ID: 440-82503-26

Date Collected: 07/07/14 13:40

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
4,4'-DDE	8.2		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
4,4'-DDT	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
Aldrin	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
alpha-BHC	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
beta-BHC	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
Chlordane (technical)	ND		49	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
Dieldrin	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
Endosulfan I	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
Endosulfan II	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
Endrin	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
Endrin aldehyde	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
Endrin ketone	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
Heptachlor	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
Methoxychlor	ND		4.9	ug/Kg		07/17/14 12:29	07/19/14 14:47	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	49		35 - 115	07/17/14 12:29	07/19/14 14:47	1
DCB Decachlorobiphenyl (Surr)	70		45 - 120	07/17/14 12:29	07/19/14 14:47	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:03	1
Aroclor 1221	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:03	1
Aroclor 1232	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:03	1
Aroclor 1242	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:03	1
Aroclor 1248	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:03	1
Aroclor 1254	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:03	1
Aroclor 1260	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	124	X	45 - 120	07/11/14 11:59	07/14/14 18:03	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Bolstar	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Chlorpyrifos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Coumaphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Demeton, Total	ND		66	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Diazinon	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Dichlorvos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Dimethoate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Disulfoton	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
EPN	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-58-0-0.5

Lab Sample ID: 440-82503-26

Date Collected: 07/07/14 13:40

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Fensulfothion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Fenthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Malathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Methyl parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Mevinphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Phorate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Ronnel	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Stirophos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Sulfotepp	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Tokuthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Trichloronate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Mocap	ND		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Thionazin	ND *		33	ug/Kg		07/12/14 03:15	07/14/14 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Triphenylphosphate	106		55 - 125			07/12/14 03:15	07/14/14 18:41	1
Tributyl phosphate	98		47 - 130			07/12/14 03:15	07/14/14 18:41	1

Client Sample ID: MH-SB-58-1.5-2

Lab Sample ID: 440-82503-27

Date Collected: 07/07/14 13:48

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
4,4'-DDE	7.5		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
4,4'-DDT	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Aldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
alpha-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
beta-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Chlordane (technical)	ND		50	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Dieldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Endosulfan I	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Endosulfan II	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Endrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Endrin aldehyde	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Endrin ketone	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Heptachlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Methoxychlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 11:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		35 - 115			07/17/14 12:29	07/19/14 11:37	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-58-1.5-2

Lab Sample ID: 440-82503-27

Date Collected: 07/07/14 13:48

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	75		45 - 120	07/17/14 12:29	07/19/14 11:37	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:19	1
Aroclor 1221	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:19	1
Aroclor 1232	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:19	1
Aroclor 1242	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:19	1
Aroclor 1248	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:19	1
Aroclor 1254	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:19	1
Aroclor 1260	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	75		45 - 120	07/11/14 11:59	07/14/14 18:19	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Bolstar	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Chlorpyrifos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Coumaphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Demeton, Total	ND		66	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Diazinon	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Dichlorvos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Dimethoate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Disulfoton	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
EPN	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Famphur	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Fensulfothion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Fenthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Malathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Methyl parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Mevinphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Phorate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Ronnel	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Stirophos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Sulfotepp	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Tokuthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Trichloronate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Mocap	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1
Thionazin	ND *		33	ug/Kg		07/12/14 03:15	07/14/14 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	100		55 - 125	07/12/14 03:15	07/14/14 19:15	1
Tributyl phosphate	89		47 - 130	07/12/14 03:15	07/14/14 19:15	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-57-0-0.5

Lab Sample ID: 440-82503-28

Date Collected: 07/07/14 13:55

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
4,4'-DDE	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
4,4'-DDT	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
Aldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
alpha-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
beta-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
Chlordane (technical)	ND		50	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
Dieldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
Endosulfan I	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
Endosulfan II	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
Endrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
Endrin aldehyde	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
Endrin ketone	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
Heptachlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
Methoxychlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:52	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		35 - 115	07/17/14 12:29	07/19/14 11:52	1
DCB Decachlorobiphenyl (Surr)	83		45 - 120	07/17/14 12:29	07/19/14 11:52	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:24	1
Aroclor 1221	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:24	1
Aroclor 1232	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:24	1
Aroclor 1242	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:24	1
Aroclor 1248	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:24	1
Aroclor 1254	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:24	1
Aroclor 1260	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	69		45 - 120	07/17/14 12:29	07/18/14 02:24	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Bolstar	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Chlorpyrifos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Coumaphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Demeton, Total	ND		66	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Diazinon	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Dichlorvos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Dimethoate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Disulfoton	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
EPN	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-57-0-0.5

Lab Sample ID: 440-82503-28

Date Collected: 07/07/14 13:55

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Fensulfothion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Fenthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Malathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Methyl parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Mevinphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Phorate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Ronnel	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Stirophos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Sulfotepp	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Tokuthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Trichloronate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Mocap	ND		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Thionazin	ND *		33	ug/Kg		07/12/14 03:15	07/14/14 19:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Triphenylphosphate	110		55 - 125			07/12/14 03:15	07/14/14 19:49	1
Tributyl phosphate	99		47 - 130			07/12/14 03:15	07/14/14 19:49	1

Client Sample ID: MH-SB-57-1.5-2

Lab Sample ID: 440-82503-29

Date Collected: 07/07/14 14:00

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
4,4'-DDE	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
4,4'-DDT	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Aldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
alpha-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
beta-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Chlordane (technical)	ND		50	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Dieldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Endosulfan I	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Endosulfan II	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Endrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Endrin aldehyde	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Endrin ketone	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Heptachlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Methoxychlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 15:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	49		35 - 115			07/17/14 12:29	07/19/14 15:01	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-57-1.5-2

Lab Sample ID: 440-82503-29

Date Collected: 07/07/14 14:00

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	69		45 - 120	07/17/14 12:29	07/19/14 15:01	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:35	1
Aroclor 1221	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:35	1
Aroclor 1232	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:35	1
Aroclor 1242	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:35	1
Aroclor 1248	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:35	1
Aroclor 1254	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:35	1
Aroclor 1260	ND		50	ug/Kg		07/11/14 11:59	07/14/14 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	92		45 - 120	07/11/14 11:59	07/14/14 18:35	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Bolstar	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Chlorpyrifos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Coumaphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Demeton, Total	ND		66	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Diazinon	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Dichlorvos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Dimethoate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Disulfoton	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
EPN	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Famphur	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Fensulfothion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Fenthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Malathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Methyl parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Mevinphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Phorate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Ronnel	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Stirophos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Sulfotepp	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Tokuthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Trichloronate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Mocap	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1
Thionazin	ND *		33	ug/Kg		07/12/14 03:15	07/14/14 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	103		55 - 125	07/12/14 03:15	07/14/14 20:22	1
Tributyl phosphate	89		47 - 130	07/12/14 03:15	07/14/14 20:22	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-56-0-0.5

Lab Sample ID: 440-82503-30

Date Collected: 07/07/14 14:04

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
4,4'-DDE	37		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
4,4'-DDT	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
Aldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
alpha-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
beta-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
Chlordane (technical)	ND		50	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
Dieldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
Endosulfan I	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
Endosulfan II	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
Endrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
Endrin aldehyde	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
Endrin ketone	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
Heptachlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
Methoxychlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:16	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	57		35 - 115	07/17/14 12:29	07/19/14 15:16	1
DCB Decachlorobiphenyl (Surr)	60		45 - 120	07/17/14 12:29	07/19/14 15:16	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	ug/Kg		07/11/14 11:59	07/14/14 18:51	1
Aroclor 1221	ND		49	ug/Kg		07/11/14 11:59	07/14/14 18:51	1
Aroclor 1232	ND		49	ug/Kg		07/11/14 11:59	07/14/14 18:51	1
Aroclor 1242	ND		49	ug/Kg		07/11/14 11:59	07/14/14 18:51	1
Aroclor 1248	ND		49	ug/Kg		07/11/14 11:59	07/14/14 18:51	1
Aroclor 1254	ND		49	ug/Kg		07/11/14 11:59	07/14/14 18:51	1
Aroclor 1260	ND		49	ug/Kg		07/11/14 11:59	07/14/14 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	116		45 - 120	07/11/14 11:59	07/14/14 18:51	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Bolstar	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Chlorpyrifos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Coumaphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Demeton, Total	ND		66	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Diazinon	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Dichlorvos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Dimethoate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Disulfoton	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
EPN	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-56-0-0.5

Lab Sample ID: 440-82503-30

Date Collected: 07/07/14 14:04

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Fensulfothion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Fenthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Malathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Methyl parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Mevinphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Phorate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Ronnel	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Stirophos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Sulfotepp	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Tokuthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Trichloronate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Mocap	ND		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1
Thionazin	ND *		33	ug/Kg		07/12/14 03:15	07/14/14 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	108		55 - 125	07/12/14 03:15	07/14/14 20:56	1
Tributyl phosphate	98		47 - 130	07/12/14 03:15	07/14/14 20:56	1

Client Sample ID: MH-SB-56-1.5-2

Lab Sample ID: 440-82503-31

Date Collected: 07/07/14 14:10

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
4,4'-DDE	11		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
4,4'-DDT	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
Aldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
alpha-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
beta-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
Chlordane (technical)	ND		50	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
Dieldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
Endosulfan I	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
Endosulfan II	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
Endrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
Endrin aldehyde	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
Endrin ketone	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
Heptachlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
Methoxychlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 11:23	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 11:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		35 - 115	07/17/14 12:29	07/19/14 11:23	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-56-1.5-2

Lab Sample ID: 440-82503-31

Date Collected: 07/07/14 14:10

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	69		45 - 120	07/17/14 12:29	07/19/14 11:23	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:47	1
Aroclor 1221	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:47	1
Aroclor 1232	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:47	1
Aroclor 1242	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:47	1
Aroclor 1248	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:47	1
Aroclor 1254	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:47	1
Aroclor 1260	ND		50	ug/Kg		07/17/14 12:29	07/18/14 02:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	70		45 - 120	07/17/14 12:29	07/18/14 02:47	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Bolstar	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Chlorpyrifos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Coumaphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Demeton, Total	ND		66	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Diazinon	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Dichlorvos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Dimethoate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Disulfoton	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
EPN	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Famphur	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Fensulfothion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Fenthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Malathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Methyl parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Mevinphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Phorate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Ronnel	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Stirophos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Sulfotepp	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Tokuthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Trichloronate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Mocap	ND		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1
Thionazin	ND *		33	ug/Kg		07/12/14 03:15	07/14/14 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	69		55 - 125	07/12/14 03:15	07/14/14 21:29	1
Tributyl phosphate	58		47 - 130	07/12/14 03:15	07/14/14 21:29	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-50-0-0.5

Lab Sample ID: 440-82503-32

Date Collected: 07/07/14 14:11

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
4,4'-DDE	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
4,4'-DDT	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
Aldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
alpha-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
beta-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
Chlordane (technical)	ND		50	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
Dieldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
Endosulfan I	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
Endosulfan II	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
Endrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
Endrin aldehyde	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
Endrin ketone	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
Heptachlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
Methoxychlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 15:45	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72	p	35 - 115	07/17/14 12:29	07/19/14 15:45	1
DCB Decachlorobiphenyl (Surr)	85		45 - 120	07/17/14 12:29	07/19/14 15:45	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	ug/Kg		07/11/14 12:10	07/14/14 19:07	1
Aroclor 1221	ND		49	ug/Kg		07/11/14 12:10	07/14/14 19:07	1
Aroclor 1232	ND		49	ug/Kg		07/11/14 12:10	07/14/14 19:07	1
Aroclor 1242	ND		49	ug/Kg		07/11/14 12:10	07/14/14 19:07	1
Aroclor 1248	ND		49	ug/Kg		07/11/14 12:10	07/14/14 19:07	1
Aroclor 1254	ND		49	ug/Kg		07/11/14 12:10	07/14/14 19:07	1
Aroclor 1260	ND		49	ug/Kg		07/11/14 12:10	07/14/14 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	87		45 - 120	07/11/14 12:10	07/14/14 19:07	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Bolstar	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Chlorpyrifos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Coumaphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Demeton, Total	ND		66	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Diazinon	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Dichlorvos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Dimethoate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Disulfoton	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
EPN	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-50-0-0.5

Lab Sample ID: 440-82503-32

Date Collected: 07/07/14 14:11

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Fensulfothion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Fenthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Malathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Methyl parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Mevinphos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Parathion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Phorate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Ronnel	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Stirophos	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Sulfotepp	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Tokuthion	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Trichloronate	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Mocap	ND		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Thionazin	ND *		33	ug/Kg		07/12/14 03:15	07/14/14 22:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Triphenylphosphate	116		55 - 125			07/12/14 03:15	07/14/14 22:03	1
Tributyl phosphate	104		47 - 130			07/12/14 03:15	07/14/14 22:03	1

Client Sample ID: MH-SB-50-1.5-2

Lab Sample ID: 440-82503-33

Date Collected: 07/07/14 14:17

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
4,4'-DDE	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
4,4'-DDT	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Aldrin	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
alpha-BHC	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
beta-BHC	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Chlordane (technical)	ND		50	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
delta-BHC	ND		9.9	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Dieldrin	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Endosulfan I	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Endosulfan II	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Endrin	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Endrin aldehyde	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Endrin ketone	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Heptachlor	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Methoxychlor	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Toxaphene	ND		200	ug/Kg		07/15/14 12:02	07/17/14 16:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	52		35 - 115			07/15/14 12:02	07/17/14 16:34	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-50-1.5-2

Lab Sample ID: 440-82503-33

Date Collected: 07/07/14 14:17

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	70		45 - 120	07/15/14 12:02	07/17/14 16:34	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/11/14 11:59	07/14/14 19:23	1
Aroclor 1221	ND		50	ug/Kg		07/11/14 11:59	07/14/14 19:23	1
Aroclor 1232	ND		50	ug/Kg		07/11/14 11:59	07/14/14 19:23	1
Aroclor 1242	ND		50	ug/Kg		07/11/14 11:59	07/14/14 19:23	1
Aroclor 1248	ND		50	ug/Kg		07/11/14 11:59	07/14/14 19:23	1
Aroclor 1254	ND		50	ug/Kg		07/11/14 11:59	07/14/14 19:23	1
Aroclor 1260	ND		50	ug/Kg		07/11/14 11:59	07/14/14 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	56		45 - 120	07/11/14 11:59	07/14/14 19:23	1
DCB Decachlorobiphenyl (Surr)	55		45 - 120	07/15/14 12:02	07/16/14 17:23	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Bolstar	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Chlorpyrifos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Coumaphos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Demeton, Total	ND		66	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Diazinon	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Dichlorvos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Dimethoate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Disulfoton	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
EPN	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Famphur	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Fensulfothion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Fenthion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Malathion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Methyl parathion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Mevinphos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Parathion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Phorate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Ronnel	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Stirophos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Sulfotepp	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Tokuthion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Trichloronate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Mocap	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1
Thionazin	ND		33	ug/Kg		07/16/14 06:05	07/16/14 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	98		55 - 125	07/16/14 06:05	07/16/14 19:40	1
Tributyl phosphate	90		47 - 130	07/16/14 06:05	07/16/14 19:40	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-50-0-0.5-FD

Lab Sample ID: 440-82503-34

Date Collected: 07/07/14 14:19

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
4,4'-DDE	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
4,4'-DDT	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
Aldrin	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
alpha-BHC	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
beta-BHC	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
Chlordane (technical)	ND		50	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
delta-BHC	ND		9.9	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
Dieldrin	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
Endosulfan I	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
Endosulfan II	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
Endrin	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
Endrin aldehyde	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
Endrin ketone	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
Heptachlor	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
Methoxychlor	ND		5.0	ug/Kg		07/15/14 12:02	07/17/14 20:01	1
Toxaphene	ND		200	ug/Kg		07/15/14 12:02	07/17/14 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77	p	35 - 115	07/15/14 12:02	07/17/14 20:01	1
DCB Decachlorobiphenyl (Surr)	79		45 - 120	07/15/14 12:02	07/17/14 20:01	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/11/14 12:10	07/14/14 19:39	1
Aroclor 1221	ND		50	ug/Kg		07/11/14 12:10	07/14/14 19:39	1
Aroclor 1232	ND		50	ug/Kg		07/11/14 12:10	07/14/14 19:39	1
Aroclor 1242	ND		50	ug/Kg		07/11/14 12:10	07/14/14 19:39	1
Aroclor 1248	ND		50	ug/Kg		07/11/14 12:10	07/14/14 19:39	1
Aroclor 1254	ND		50	ug/Kg		07/11/14 12:10	07/14/14 19:39	1
Aroclor 1260	ND		50	ug/Kg		07/11/14 12:10	07/14/14 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	91		45 - 120	07/11/14 12:10	07/14/14 19:39	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Bolstar	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Chlorpyrifos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Coumaphos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Demeton, Total	ND		66	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Diazinon	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Dichlorvos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Dimethoate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Disulfoton	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
EPN	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-50-0-0.5-FD

Lab Sample ID: 440-82503-34

Date Collected: 07/07/14 14:19

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Fensulfothion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Fenthion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Malathion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Methyl parathion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Mevinphos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Parathion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Phorate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Ronnel	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Stirophos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Sulfotepp	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Tokuthion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Trichloronate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Mocap	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Thionazin	ND		33	ug/Kg		07/16/14 06:05	07/16/14 22:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Triphenylphosphate	90		55 - 125			07/16/14 06:05	07/16/14 22:28	1
Tributyl phosphate	79		47 - 130			07/16/14 06:05	07/16/14 22:28	1

Client Sample ID: MH-SB-51-0-0.5

Lab Sample ID: 440-82503-35

Date Collected: 07/07/14 14:28

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
4,4'-DDE	7.3		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
4,4'-DDT	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Aldrin	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
alpha-BHC	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
beta-BHC	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Chlordane (technical)	ND		50	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
delta-BHC	ND		9.9	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Dieldrin	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Endosulfan I	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Endosulfan II	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Endrin	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Endrin aldehyde	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Endrin ketone	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Heptachlor	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Methoxychlor	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Toxaphene	ND		200	ug/Kg		07/14/14 09:15	07/15/14 19:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	65		35 - 115			07/14/14 09:15	07/15/14 19:38	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-51-0-0.5

Lab Sample ID: 440-82503-35

Date Collected: 07/07/14 14:28

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	52		45 - 120	07/14/14 09:15	07/15/14 19:38	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:43	1
Aroclor 1221	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:43	1
Aroclor 1232	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:43	1
Aroclor 1242	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:43	1
Aroclor 1248	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:43	1
Aroclor 1254	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:43	1
Aroclor 1260	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	63		45 - 120	07/14/14 09:15	07/15/14 14:43	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Bolstar	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Chlorpyrifos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Coumaphos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Demeton, Total	ND		66	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Diazinon	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Dichlorvos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Dimethoate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Disulfoton	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
EPN	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Famphur	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Fensulfothion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Fenthion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Malathion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Methyl parathion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Mevinphos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Parathion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Phorate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Ronnel	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Stirophos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Sulfotepp	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Tokuthion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Trichloronate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Mocap	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1
Thionazin	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	90		55 - 125	07/16/14 06:05	07/16/14 23:01	1
Tributyl phosphate	79		47 - 130	07/16/14 06:05	07/16/14 23:01	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-51-1.5-2

Lab Sample ID: 440-82503-36

Date Collected: 07/07/14 14:31

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
4,4'-DDE	6.3		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
4,4'-DDT	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
Aldrin	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
alpha-BHC	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
beta-BHC	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
Chlordane (technical)	ND		50	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
delta-BHC	ND		9.9	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
Dieldrin	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
Endosulfan I	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
Endosulfan II	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
Endrin	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
Endrin aldehyde	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
Endrin ketone	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
Heptachlor	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
Methoxychlor	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 19:53	1
Toxaphene	ND		200	ug/Kg		07/14/14 09:15	07/15/14 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	38		35 - 115	07/14/14 09:15	07/15/14 19:53	1
DCB Decachlorobiphenyl (Surr)	40	X	45 - 120	07/14/14 09:15	07/15/14 19:53	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:59	1
Aroclor 1221	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:59	1
Aroclor 1232	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:59	1
Aroclor 1242	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:59	1
Aroclor 1248	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:59	1
Aroclor 1254	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:59	1
Aroclor 1260	ND		50	ug/Kg		07/14/14 09:15	07/15/14 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	49		45 - 120	07/14/14 09:15	07/15/14 14:59	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Bolstar	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Chlorpyrifos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Coumaphos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Demeton, Total	ND		66	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Diazinon	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Dichlorvos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Dimethoate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Disulfoton	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
EPN	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-51-1.5-2

Lab Sample ID: 440-82503-36

Date Collected: 07/07/14 14:31

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Fensulfothion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Fenthion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Malathion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Methyl parathion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Mevinphos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Parathion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Phorate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Ronnel	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Stirophos	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Sulfotepp	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Tokuthion	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Trichloronate	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Mocap	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1
Thionazin	ND		33	ug/Kg		07/16/14 06:05	07/16/14 23:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	102		55 - 125	07/16/14 06:05	07/16/14 23:35	1
Tributyl phosphate	89		47 - 130	07/16/14 06:05	07/16/14 23:35	1

Client Sample ID: MH-SB-53-0-0.5

Lab Sample ID: 440-82503-37

Date Collected: 07/07/14 14:35

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
4,4'-DDE	26		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
4,4'-DDT	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
Aldrin	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
alpha-BHC	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
beta-BHC	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
Chlordane (technical)	ND		50	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
delta-BHC	ND		9.9	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
Dieldrin	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
Endosulfan I	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
Endosulfan II	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
Endrin	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
Endrin aldehyde	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
Endrin ketone	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
Heptachlor	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
Methoxychlor	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:26	1
Toxaphene	ND		200	ug/Kg		07/14/14 09:15	07/14/14 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	57		35 - 115	07/14/14 09:15	07/14/14 21:26	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-53-0-0.5

Lab Sample ID: 440-82503-37

Date Collected: 07/07/14 14:35

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	72		45 - 120	07/14/14 09:15	07/14/14 21:26	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:18	1
Aroclor 1221	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:18	1
Aroclor 1232	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:18	1
Aroclor 1242	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:18	1
Aroclor 1248	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:18	1
Aroclor 1254	61		50	ug/Kg		07/14/14 09:15	07/16/14 01:18	1
Aroclor 1260	56		50	ug/Kg		07/14/14 09:15	07/16/14 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	96		45 - 120	07/14/14 09:15	07/16/14 01:18	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Bolstar	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Chlorpyrifos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Coumaphos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Demeton, Total	ND		65	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Diazinon	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Dichlorvos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Dimethoate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Disulfoton	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
EPN	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Famphur	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Fensulfothion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Fenthion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Malathion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Methyl parathion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Mevinphos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Parathion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Phorate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Ronnel	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Stirophos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Sulfotepp	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Tokuthion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Trichloronate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Mocap	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1
Thionazin	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	94		55 - 125	07/16/14 06:05	07/17/14 00:08	1
Tributyl phosphate	47		47 - 130	07/16/14 06:05	07/17/14 00:08	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-53-1.5-2

Lab Sample ID: 440-82503-38

Date Collected: 07/07/14 14:39

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
4,4'-DDE	22		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
4,4'-DDT	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
Aldrin	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
alpha-BHC	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
beta-BHC	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
Chlordane (technical)	ND		50	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
delta-BHC	ND		9.9	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
Dieldrin	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
Endosulfan I	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
Endosulfan II	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
Endrin	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
Endrin aldehyde	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
Endrin ketone	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
Heptachlor	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
Methoxychlor	ND		5.0	ug/Kg		07/14/14 09:15	07/15/14 20:08	1
Toxaphene	ND		200	ug/Kg		07/14/14 09:15	07/15/14 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	40		35 - 115	07/14/14 09:15	07/15/14 20:08	1
DCB Decachlorobiphenyl (Surr)	65		45 - 120	07/14/14 09:15	07/15/14 20:08	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:34	1
Aroclor 1221	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:34	1
Aroclor 1232	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:34	1
Aroclor 1242	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:34	1
Aroclor 1248	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:34	1
Aroclor 1254	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:34	1
Aroclor 1260	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	96		45 - 120	07/14/14 09:15	07/16/14 01:34	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Bolstar	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Chlorpyrifos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Coumaphos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Demeton, Total	ND		66	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Diazinon	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Dichlorvos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Dimethoate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Disulfoton	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
EPN	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-53-1.5-2

Lab Sample ID: 440-82503-38

Date Collected: 07/07/14 14:39

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Fensulfothion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Fenthion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Malathion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Methyl parathion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Mevinphos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Parathion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Phorate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Ronnel	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Stirophos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Sulfotepp	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Tokuthion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Trichloronate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Mocap	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Thionazin	ND		33	ug/Kg		07/16/14 06:05	07/17/14 00:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Triphenylphosphate	94		55 - 125			07/16/14 06:05	07/17/14 00:42	1
Tributyl phosphate	82		47 - 130			07/16/14 06:05	07/17/14 00:42	1

Client Sample ID: MH-SB-52-0-0.5

Lab Sample ID: 440-82503-39

Date Collected: 07/07/14 14:43

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
4,4'-DDE	38		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
4,4'-DDT	5.4		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Aldrin	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
alpha-BHC	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
beta-BHC	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Chlordane (technical)	ND		50	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
delta-BHC	ND		9.9	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Dieldrin	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Endosulfan I	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Endosulfan II	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Endrin	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Endrin aldehyde	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Endrin ketone	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Heptachlor	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Methoxychlor	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Toxaphene	ND		200	ug/Kg		07/14/14 09:15	07/14/14 21:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	45		35 - 115			07/14/14 09:15	07/14/14 21:40	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-52-0-0.5

Lab Sample ID: 440-82503-39

Date Collected: 07/07/14 14:43

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	52		45 - 120	07/14/14 09:15	07/14/14 21:40	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:50	1
Aroclor 1221	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:50	1
Aroclor 1232	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:50	1
Aroclor 1242	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:50	1
Aroclor 1248	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:50	1
Aroclor 1254	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:50	1
Aroclor 1260	ND		50	ug/Kg		07/14/14 09:15	07/16/14 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	62		45 - 120	07/14/14 09:15	07/16/14 01:50	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Bolstar	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Chlorpyrifos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Coumaphos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Demeton, Total	ND		66	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Diazinon	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Dichlorvos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Dimethoate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Disulfoton	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
EPN	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Famphur	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Fensulfothion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Fenthion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Malathion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Methyl parathion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Mevinphos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Parathion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Phorate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Ronnel	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Stirophos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Sulfotepp	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Tokuthion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Trichloronate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Mocap	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1
Thionazin	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	96		55 - 125	07/16/14 06:05	07/17/14 01:16	1
Tributyl phosphate	88		47 - 130	07/16/14 06:05	07/17/14 01:16	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-52-1.5-2

Lab Sample ID: 440-82503-40

Date Collected: 07/07/14 14:50

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
4,4'-DDT	37		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
Aldrin	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
alpha-BHC	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
beta-BHC	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
Chlordane (technical)	ND		50	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
delta-BHC	ND		9.9	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
Dieldrin	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
Endosulfan I	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
Endosulfan II	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
Endrin	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
Endrin aldehyde	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
Endrin ketone	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
Heptachlor	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
Methoxychlor	ND		5.0	ug/Kg		07/14/14 09:15	07/14/14 20:57	1
Toxaphene	ND		200	ug/Kg		07/14/14 09:15	07/14/14 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		35 - 115	07/14/14 09:15	07/14/14 20:57	1
DCB Decachlorobiphenyl (Surr)	78		45 - 120	07/14/14 09:15	07/14/14 20:57	1

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	430		99	ug/Kg		07/14/14 09:15	07/15/14 15:45	20

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/14/14 09:15	07/15/14 13:39	1
Aroclor 1221	ND		50	ug/Kg		07/14/14 09:15	07/15/14 13:39	1
Aroclor 1232	ND		50	ug/Kg		07/14/14 09:15	07/15/14 13:39	1
Aroclor 1242	ND		50	ug/Kg		07/14/14 09:15	07/15/14 13:39	1
Aroclor 1248	ND		50	ug/Kg		07/14/14 09:15	07/15/14 13:39	1
Aroclor 1254	ND		50	ug/Kg		07/14/14 09:15	07/15/14 13:39	1
Aroclor 1260	ND		50	ug/Kg		07/14/14 09:15	07/15/14 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	71		45 - 120	07/14/14 09:15	07/15/14 13:39	1

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Bolstar	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Chlorpyrifos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Coumaphos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Demeton, Total	ND		66	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Diazinon	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Dichlorvos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Dimethoate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-52-1.5-2

Lab Sample ID: 440-82503-40

Date Collected: 07/07/14 14:50

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Disulfoton	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
EPN	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Famphur	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Fensulfothion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Fenthion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Malathion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Methyl parathion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Mevinphos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
O,O,O-Triethyl phosphorothioate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Parathion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Phorate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Ronnel	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Stirophos	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Sulfotepp	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Tokuthion	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Trichloronate	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Mocap	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Thionazin	ND		33	ug/Kg		07/16/14 06:05	07/17/14 01:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Triphenylphosphate	96		55 - 125			07/16/14 06:05	07/17/14 01:49	1
Tributyl phosphate	88		47 - 130			07/16/14 06:05	07/17/14 01:49	1

Method Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
8141A	Organophosphorous Pesticides (GC)	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-61-0-0.5

Date Collected: 07/07/14 13:11

Date Received: 07/07/14 18:20

Lab Sample ID: 440-82503-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.18 g	2 mL	194027	07/15/14 12:02	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.18 g	2 mL	194574	07/17/14 19:20	KS	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	193419	07/11/14 11:59	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.01 g	2 mL	193689	07/14/14 15:55	JM	TAL IRV
Total/NA	Prep	3541			15.1 g	2.5 mL	111242	07/12/14 03:15	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.1 g	2.5 mL	111268	07/14/14 14:12	JMO	TAL PIT

Client Sample ID: MH-SB-61-1.5-2

Date Collected: 07/07/14 13:21

Date Received: 07/07/14 18:20

Lab Sample ID: 440-82503-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	2 mL	194027	07/15/14 12:02	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.00 g	2 mL	194574	07/17/14 19:33	KS	TAL IRV
Total/NA	Prep	3546			15.10 g	2 mL	193419	07/11/14 11:59	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.10 g	2 mL	193689	07/14/14 16:11	JM	TAL IRV
Total/NA	Prep	3541			15.0 g	2.5 mL	111242	07/12/14 03:15	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.0 g	2.5 mL	111268	07/14/14 14:46	JMO	TAL PIT

Client Sample ID: MH-SB-60-0-0.5

Date Collected: 07/07/14 13:29

Date Received: 07/07/14 18:20

Lab Sample ID: 440-82503-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	2 mL	194027	07/15/14 12:02	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.20 g	2 mL	194574	07/17/14 19:47	KS	TAL IRV
Total/NA	Prep	3546			15.04 g	2 mL	193419	07/11/14 11:59	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.04 g	2 mL	193689	07/15/14 09:40	JM	TAL IRV
Total/NA	Prep	3541			15.1 g	2.5 mL	111242	07/12/14 03:15	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.1 g	2.5 mL	111268	07/14/14 15:20	JMO	TAL PIT

Client Sample ID: MH-SB-60-1.5-2

Date Collected: 07/07/14 13:32

Date Received: 07/07/14 18:20

Lab Sample ID: 440-82503-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.11 g	2 mL	195005	07/19/14 13:48	KS	TAL IRV
Total/NA	Prep	3546			15.35 g	2 mL	193419	07/11/14 11:59	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.35 g	2 mL	193689	07/14/14 16:43	JM	TAL IRV
Total/NA	Prep	3541			15.0 g	2.5 mL	111242	07/12/14 03:15	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.0 g	2.5 mL	111268	07/14/14 15:53	JMO	TAL PIT

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-59-0-0.5

Lab Sample ID: 440-82503-24

Date Collected: 07/07/14 13:36

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.18 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.18 g	2 mL	195005	07/19/14 14:18	KS	TAL IRV
Total/NA	Prep	3546			5.07 g	2 mL	193419	07/11/14 11:59	SJ	TAL IRV
Total/NA	Analysis	8082		1	5.07 g	2 mL	193689	07/14/14 16:59	JM	TAL IRV
Total/NA	Prep	3541			15.0 g	2.5 mL	111242	07/12/14 03:15	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.0 g	2.5 mL	111268	07/14/14 16:27	JMO	TAL PIT

Client Sample ID: MH-SB-59-1.5-2

Lab Sample ID: 440-82503-25

Date Collected: 07/07/14 13:38

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.18 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.18 g	2 mL	195005	07/19/14 14:32	KS	TAL IRV
Total/NA	Prep	3546			15.13 g	2 mL	193419	07/11/14 11:59	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.13 g	2 mL	193689	07/14/14 17:47	JM	TAL IRV
Total/NA	Prep	3541			15.1 g	2.5 mL	111242	07/12/14 03:15	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.1 g	2.5 mL	111268	07/14/14 18:08	JMO	TAL PIT

Client Sample ID: MH-SB-58-0-0.5

Lab Sample ID: 440-82503-26

Date Collected: 07/07/14 13:40

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.17 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.17 g	2 mL	195005	07/19/14 14:47	KS	TAL IRV
Total/NA	Prep	3546			15.08 g	2 mL	193419	07/11/14 11:59	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.08 g	2 mL	193689	07/14/14 18:03	JM	TAL IRV
Total/NA	Prep	3541			15.0 g	2.5 mL	111242	07/12/14 03:15	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.0 g	2.5 mL	111268	07/14/14 18:41	JMO	TAL PIT

Client Sample ID: MH-SB-58-1.5-2

Lab Sample ID: 440-82503-27

Date Collected: 07/07/14 13:48

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.13 g	2 mL	195005	07/19/14 11:37	KS	TAL IRV
Total/NA	Prep	3546			15.14 g	2 mL	193419	07/11/14 11:59	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.14 g	2 mL	193689	07/14/14 18:19	JM	TAL IRV
Total/NA	Prep	3541			15.0 g	2.5 mL	111242	07/12/14 03:15	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.0 g	2.5 mL	111268	07/14/14 19:15	JMO	TAL PIT

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-57-0-0.5

Lab Sample ID: 440-82503-28

Date Collected: 07/07/14 13:55

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.15 g	2 mL	195005	07/19/14 11:52	KS	TAL IRV
Total/NA	Prep	3546			15.15 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.15 g	2 mL	194318	07/18/14 02:24	JM	TAL IRV
Total/NA	Prep	3541			15.1 g	2.5 mL	111242	07/12/14 03:15	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.1 g	2.5 mL	111268	07/14/14 19:49	JMO	TAL PIT

Client Sample ID: MH-SB-57-1.5-2

Lab Sample ID: 440-82503-29

Date Collected: 07/07/14 14:00

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.12 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.12 g	2 mL	195005	07/19/14 15:01	KS	TAL IRV
Total/NA	Prep	3546			15.05 g	2 mL	193419	07/11/14 11:59	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.05 g	2 mL	193689	07/14/14 18:35	JM	TAL IRV
Total/NA	Prep	3541			15.0 g	2.5 mL	111242	07/12/14 03:15	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.0 g	2.5 mL	111268	07/14/14 20:22	JMO	TAL PIT

Client Sample ID: MH-SB-56-0-0.5

Lab Sample ID: 440-82503-30

Date Collected: 07/07/14 14:04

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.11 g	2 mL	195005	07/19/14 15:16	KS	TAL IRV
Total/NA	Prep	3546			15.20 g	2 mL	193419	07/11/14 11:59	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.20 g	2 mL	193689	07/14/14 18:51	JM	TAL IRV
Total/NA	Prep	3541			15.1 g	2.5 mL	111242	07/12/14 03:15	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.1 g	2.5 mL	111268	07/14/14 20:56	JMO	TAL PIT

Client Sample ID: MH-SB-56-1.5-2

Lab Sample ID: 440-82503-31

Date Collected: 07/07/14 14:10

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.10 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.10 g	2 mL	195005	07/19/14 11:23	KS	TAL IRV
Total/NA	Prep	3546			15.10 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.10 g	2 mL	194318	07/18/14 02:47	JM	TAL IRV
Total/NA	Prep	3541			15.0 g	2.5 mL	111242	07/12/14 03:15	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.0 g	2.5 mL	111268	07/14/14 21:29	JMO	TAL PIT

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-50-0-0.5

Lab Sample ID: 440-82503-32

Date Collected: 07/07/14 14:11

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.11 g	2 mL	195005	07/19/14 15:45	KS	TAL IRV
Total/NA	Prep	3546			15.19 g	2 mL	193419	07/11/14 12:10	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.19 g	2 mL	193689	07/14/14 19:07	JM	TAL IRV
Total/NA	Prep	3541			15.0 g	2.5 mL	111242	07/12/14 03:15	KLK	TAL PIT
Total/NA	Analysis	8141A		1	15.0 g	2.5 mL	111268	07/14/14 22:03	JMO	TAL PIT

Client Sample ID: MH-SB-50-1.5-2

Lab Sample ID: 440-82503-33

Date Collected: 07/07/14 14:17

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.12 g	2 mL	194027	07/15/14 12:02	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.12 g	2 mL	194574	07/17/14 16:34	KS	TAL IRV
Total/NA	Prep	3546			15.12 g	2 mL	194027	07/15/14 12:02	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.12 g	2 mL	194318	07/16/14 17:23	JM	TAL IRV
Total/NA	Prep	3546			15.11 g	2 mL	193419	07/11/14 11:59	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.11 g	2 mL	193689	07/14/14 19:23	JM	TAL IRV
Total/NA	Prep	3541			15.0 g	2.5 mL	111571	07/16/14 06:05	KLK	TAL PIT
Total/NA	Analysis	8141A		1	15.0 g	2.5 mL	111632	07/16/14 19:40	JMO	TAL PIT

Client Sample ID: MH-SB-50-0-0.5-FD

Lab Sample ID: 440-82503-34

Date Collected: 07/07/14 14:19

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	2 mL	194027	07/15/14 12:02	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.15 g	2 mL	194574	07/17/14 20:01	KS	TAL IRV
Total/NA	Prep	3546			15.14 g	2 mL	193419	07/11/14 12:10	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.14 g	2 mL	193689	07/14/14 19:39	JM	TAL IRV
Total/NA	Prep	3541			15.1 g	2.5 mL	111571	07/16/14 06:05	KLK	TAL PIT
Total/NA	Analysis	8141A		1	15.1 g	2.5 mL	111632	07/16/14 22:28	JMO	TAL PIT

Client Sample ID: MH-SB-51-0-0.5

Lab Sample ID: 440-82503-35

Date Collected: 07/07/14 14:28

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.12 g	2 mL	193676	07/14/14 09:15	SJ	TAL IRV
Total/NA	Analysis	8081A		1	15.12 g	2 mL	194035	07/15/14 19:38	KS	TAL IRV
Total/NA	Prep	3546			15.12 g	2 mL	193676	07/14/14 09:15	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.12 g	2 mL	193689	07/15/14 14:43	JM	TAL IRV
Total/NA	Prep	3541			15.0 g	2.5 mL	111571	07/16/14 06:05	KLK	TAL PIT

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-51-0-0.5

Lab Sample ID: 440-82503-35

Date Collected: 07/07/14 14:28

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8141A		1	15.0 g	2.5 mL	111632	07/16/14 23:01	JMO	TAL PIT

Client Sample ID: MH-SB-51-1.5-2

Lab Sample ID: 440-82503-36

Date Collected: 07/07/14 14:31

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	2 mL	193676	07/14/14 09:15	SJ	TAL IRV
Total/NA	Analysis	8081A		1	15.15 g	2 mL	194035	07/15/14 19:53	KS	TAL IRV
Total/NA	Prep	3546			15.15 g	2 mL	193676	07/14/14 09:15	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.15 g	2 mL	193689	07/15/14 14:59	JM	TAL IRV
Total/NA	Prep	3541			15.0 g	2.5 mL	111571	07/16/14 06:05	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.0 g	2.5 mL	111632	07/16/14 23:35	JMO	TAL PIT

Client Sample ID: MH-SB-53-0-0.5

Lab Sample ID: 440-82503-37

Date Collected: 07/07/14 14:35

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.14 g	2 mL	193676	07/14/14 09:15	SJ	TAL IRV
Total/NA	Analysis	8081A		1	15.14 g	2 mL	193754	07/14/14 21:26	JM	TAL IRV
Total/NA	Prep	3546			15.14 g	2 mL	193676	07/14/14 09:15	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.14 g	2 mL	194112	07/16/14 01:18	JM	TAL IRV
Total/NA	Prep	3541			15.2 g	2.5 mL	111571	07/16/14 06:05	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.2 g	2.5 mL	111632	07/17/14 00:08	JMO	TAL PIT

Client Sample ID: MH-SB-53-1.5-2

Lab Sample ID: 440-82503-38

Date Collected: 07/07/14 14:39

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.10 g	2 mL	193676	07/14/14 09:15	SJ	TAL IRV
Total/NA	Analysis	8081A		1	15.10 g	2 mL	194035	07/15/14 20:08	KS	TAL IRV
Total/NA	Prep	3546			15.10 g	2 mL	193676	07/14/14 09:15	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.10 g	2 mL	194112	07/16/14 01:34	JM	TAL IRV
Total/NA	Prep	3541			15.1 g	2.5 mL	111571	07/16/14 06:05	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.1 g	2.5 mL	111632	07/17/14 00:42	JMO	TAL PIT

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Client Sample ID: MH-SB-52-0-0.5

Lab Sample ID: 440-82503-39

Date Collected: 07/07/14 14:43

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.12 g	2 mL	193676	07/14/14 09:15	SJ	TAL IRV
Total/NA	Analysis	8081A		1	15.12 g	2 mL	193754	07/14/14 21:40	JM	TAL IRV
Total/NA	Prep	3546			15.12 g	2 mL	193676	07/14/14 09:15	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.12 g	2 mL	194112	07/16/14 01:50	JM	TAL IRV
Total/NA	Prep	3541			15.0 g	2.5 mL	111571	07/16/14 06:05	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.0 g	2.5 mL	111632	07/17/14 01:16	JMO	TAL PIT

Client Sample ID: MH-SB-52-1.5-2

Lab Sample ID: 440-82503-40

Date Collected: 07/07/14 14:50

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.12 g	2 mL	193676	07/14/14 09:15	SJ	TAL IRV
Total/NA	Analysis	8081A		1	15.12 g	2 mL	193754	07/14/14 20:57	JM	TAL IRV
Total/NA	Prep	3546	DL		15.12 g	2 mL	193676	07/14/14 09:15	SJ	TAL IRV
Total/NA	Analysis	8081A	DL	20	15.12 g	2 mL	194035	07/15/14 15:45	KS	TAL IRV
Total/NA	Prep	3546			15.12 g	2 mL	193676	07/14/14 09:15	SJ	TAL IRV
Total/NA	Analysis	8082		1	15.12 g	2 mL	193689	07/15/14 13:39	JM	TAL IRV
Total/NA	Prep	3541			15.1 g	2.5 mL	111571	07/16/14 06:05	KLG	TAL PIT
Total/NA	Analysis	8141A		1	15.1 g	2.5 mL	111632	07/17/14 01:49	JMO	TAL PIT

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: 440-82503-33 MS

Matrix: Solid

Analysis Batch: 194574

Client Sample ID: MH-SB-50-1.5-2

Prep Type: Total/NA

Prep Batch: 194027

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		13.2	6.45	p	ug/Kg		49	40 - 130
4,4'-DDE	ND		13.2	9.37		ug/Kg		45	35 - 130
4,4'-DDT	ND		13.2	7.74		ug/Kg		58	35 - 130
Aldrin	ND		13.2	6.07		ug/Kg		46	40 - 115
alpha-BHC	ND		13.2	6.66		ug/Kg		50	40 - 115
beta-BHC	ND		13.2	5.23	F1	ug/Kg		39	40 - 120
delta-BHC	ND		13.2	ND		ug/Kg		52	45 - 120
Dieldrin	ND		13.2	7.65		ug/Kg		58	40 - 125
Endosulfan I	ND		13.2	6.77		ug/Kg		51	40 - 120
Endosulfan II	ND		13.2	6.86		ug/Kg		52	40 - 125
Endosulfan sulfate	ND		13.2	14.6		ug/Kg		110	45 - 120
Endrin	ND		13.2	7.01		ug/Kg		53	45 - 125
Endrin aldehyde	ND		13.2	6.05		ug/Kg		46	30 - 120
Endrin ketone	ND		13.2	12.2		ug/Kg		92	40 - 120
gamma-BHC (Lindane)	ND		13.2	6.01		ug/Kg		45	40 - 120
Heptachlor	ND		13.2	10.2		ug/Kg		77	40 - 115
Heptachlor epoxide	ND		13.2	6.42		ug/Kg		48	45 - 115
Methoxychlor	ND		13.2	32.0	F1	ug/Kg		242	40 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	46		35 - 115
DCB Decachlorobiphenyl (Surr)	66		45 - 120

Lab Sample ID: 440-82503-33 MSD

Matrix: Solid

Analysis Batch: 194574

Client Sample ID: MH-SB-50-1.5-2

Prep Type: Total/NA

Prep Batch: 194027

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
4,4'-DDD	ND		13.2	7.26	F2	ug/Kg		55	40 - 130	39	30
4,4'-DDE	ND		13.2	10.5		ug/Kg		54	35 - 130	11	30
4,4'-DDT	ND		13.2	9.10		ug/Kg		69	35 - 130	16	30
Aldrin	ND		13.2	7.26		ug/Kg		55	40 - 115	18	30
alpha-BHC	ND		13.2	7.43		ug/Kg		56	40 - 115	11	30
beta-BHC	ND		13.2	6.48		ug/Kg		49	40 - 120	21	30
delta-BHC	ND		13.2	ND		ug/Kg		63	45 - 120	18	30
Dieldrin	ND		13.2	8.22		ug/Kg		62	40 - 125	7	30
Endosulfan I	ND		13.2	7.97		ug/Kg		61	40 - 120	16	30
Endosulfan II	ND		13.2	7.89		ug/Kg		60	40 - 125	18	30
Endosulfan sulfate	ND		13.2	13.7		ug/Kg		104	45 - 120	6	30
Endrin	ND		13.2	7.69		ug/Kg		58	45 - 125	9	30
Endrin aldehyde	ND		13.2	9.36	F2	ug/Kg		71	30 - 120	44	30
Endrin ketone	ND		13.2	11.6		ug/Kg		88	40 - 120	5	30
gamma-BHC (Lindane)	ND		13.2	7.29		ug/Kg		55	40 - 120	19	30
Heptachlor	ND		13.2	12.2		ug/Kg		93	40 - 115	18	30
Heptachlor epoxide	ND		13.2	7.94		ug/Kg		60	45 - 115	21	30
Methoxychlor	ND		13.2	18.5	F1 F2	ug/Kg		141	40 - 135	54	30

TestAmerica Irvine

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-82503-33 MSD

Matrix: Solid

Analysis Batch: 194574

Client Sample ID: MH-SB-50-1.5-2

Prep Type: Total/NA

Prep Batch: 194027

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	53		35 - 115
DCB Decachlorobiphenyl (Surr)	85		45 - 120

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: 440-82503-33 MS

Matrix: Solid

Analysis Batch: 194318

Client Sample ID: MH-SB-50-1.5-2

Prep Type: Total/NA

Prep Batch: 194027

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aroclor 1016	ND		66.0	65.8		ug/Kg		100	50 - 120	
Aroclor 1260	ND		66.0	ND		ug/Kg		56	50 - 125	
Surrogate	%Recovery	Qualifier	Limits							
DCB Decachlorobiphenyl (Surr)	72		45 - 120							

Lab Sample ID: 440-82503-33 MSD

Matrix: Solid

Analysis Batch: 194318

Client Sample ID: MH-SB-50-1.5-2

Prep Type: Total/NA

Prep Batch: 194027

	Sample	Sample	Spike	MSD	MSD				%Rec.	RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor 1016	ND		66.2	53.9		ug/Kg		81	50 - 120	20	30
Aroclor 1260	ND		66.2	ND		ug/Kg		51	50 - 125	8	30
Surrogate	%Recovery	Qualifier	Limits								
DCB Decachlorobiphenyl (Surr)	64		45 - 120								

Method: 8141A - Organophosphorous Pesticides (GC)

Lab Sample ID: 440-82503-33 MS

Matrix: Solid

Analysis Batch: 111632

Client Sample ID: MH-SB-50-1.5-2

Prep Type: Total/NA

Prep Batch: 111571

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Azinphos-methyl	ND		331	355		ug/Kg		107	40 - 150	
Bolstar	ND		331	359		ug/Kg		108	10 - 150	
Chlorpyrifos	ND		331	351		ug/Kg		106	50 - 130	
Coumaphos	ND		331	364		ug/Kg		110	10 - 150	
Diazinon	ND		331	351		ug/Kg		106	50 - 150	
Dichlorvos	ND		331	319		ug/Kg		96	10 - 150	
Dimethoate	ND		331	216		ug/Kg		65	40 - 143	
Disulfoton	ND		331	358		ug/Kg		108	31 - 136	
EPN	ND		331	378		ug/Kg		114	10 - 150	
Famphur	ND		331	259		ug/Kg		78	54 - 137	
Fensulfothion	ND		331	296		ug/Kg		89	10 - 150	
Fenthion	ND		331	355		ug/Kg		107	10 - 150	
Malathion	ND		331	335		ug/Kg		101	50 - 135	

TestAmerica Irvine

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: 440-82503-33 MS

Matrix: Solid

Analysis Batch: 111632

Client Sample ID: MH-SB-50-1.5-2

Prep Type: Total/NA

Prep Batch: 111571

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl parathion	ND		331	394		ug/Kg		119	43 - 146
Mevinphos	ND		331	256		ug/Kg		77	10 - 150
O,O,O-Triethyl phosphorothioate	ND		331	296		ug/Kg		89	45 - 130
Parathion	ND		331	359		ug/Kg		109	52 - 133
Phorate	ND		331	329		ug/Kg		99	41 - 143
Ronnel	ND		331	355		ug/Kg		107	10 - 150
Stirophos	ND		331	319		ug/Kg		96	10 - 150
Sulfotepp	ND		331	346		ug/Kg		105	48 - 126
Tokuthion	ND		331	343		ug/Kg		104	10 - 150
Trichloronate	ND		331	341		ug/Kg		103	10 - 150
Mocap	ND		331	365		ug/Kg		110	10 - 150
Thionazin	ND		331	402		ug/Kg		122	48 - 126

Surrogate	MS %Recovery	MS Qualifier	Limits
Triphenylphosphate	110		55 - 125
Tributyl phosphate	105		47 - 130

Lab Sample ID: 440-82503-33 MSD

Matrix: Solid

Analysis Batch: 111632

Client Sample ID: MH-SB-50-1.5-2

Prep Type: Total/NA

Prep Batch: 111571

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Azinphos-methyl	ND		333	329		ug/Kg		99	40 - 150	8	30
Bolstar	ND		333	335		ug/Kg		101	10 - 150	7	30
Chlorpyrifos	ND		333	328		ug/Kg		99	50 - 130	7	25
Coumaphos	ND		333	335		ug/Kg		100	10 - 150	8	30
Diazinon	ND		333	334		ug/Kg		100	50 - 150	5	30
Dichlorvos	ND		333	308		ug/Kg		92	10 - 150	3	30
Dimethoate	ND		333	227		ug/Kg		68	40 - 143	5	30
Disulfoton	ND		333	339		ug/Kg		102	31 - 136	5	30
EPN	ND		333	349		ug/Kg		105	10 - 150	8	30
Famphur	ND		333	257		ug/Kg		77	54 - 137	1	30
Fensulfothion	ND		333	305		ug/Kg		92	10 - 150	3	30
Fenthion	ND		333	330		ug/Kg		99	10 - 150	7	30
Malathion	ND		333	312		ug/Kg		93	50 - 135	7	20
Methyl parathion	ND		333	364		ug/Kg		109	43 - 146	8	30
Mevinphos	ND		333	266		ug/Kg		80	10 - 150	4	30
O,O,O-Triethyl phosphorothioate	ND		333	275		ug/Kg		83	45 - 130	7	30
Parathion	ND		333	332		ug/Kg		100	52 - 133	8	30
Phorate	ND		333	311		ug/Kg		93	41 - 143	6	30
Ronnel	ND		333	339		ug/Kg		102	10 - 150	5	30
Stirophos	ND		333	291		ug/Kg		87	10 - 150	9	30
Sulfotepp	ND		333	330		ug/Kg		99	48 - 126	5	28
Tokuthion	ND		333	324		ug/Kg		97	10 - 150	6	30
Trichloronate	ND		333	322		ug/Kg		97	10 - 150	6	30
Mocap	ND		333	341		ug/Kg		102	10 - 150	7	30
Thionazin	ND		333	376		ug/Kg		113	48 - 126	7	27

TestAmerica Irvine

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: 440-82503-33 MSD

Matrix: Solid

Analysis Batch: 111632

Client Sample ID: MH-SB-50-1.5-2

Prep Type: Total/NA

Prep Batch: 111571

Surrogate	MSD		Limits
	%Recovery	Qualifier	
Triphenylphosphate	93		55 - 125
Tributyl phosphate	92		47 - 130

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

GC Semi VOA

Prep Batch: 111242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-20	MH-SB-61-0-0.5	Total/NA	Solid	3541	
440-82503-21	MH-SB-61-1.5-2	Total/NA	Solid	3541	
440-82503-22	MH-SB-60-0-0.5	Total/NA	Solid	3541	
440-82503-23	MH-SB-60-1.5-2	Total/NA	Solid	3541	
440-82503-24	MH-SB-59-0-0.5	Total/NA	Solid	3541	
440-82503-25	MH-SB-59-1.5-2	Total/NA	Solid	3541	
440-82503-26	MH-SB-58-0-0.5	Total/NA	Solid	3541	
440-82503-27	MH-SB-58-1.5-2	Total/NA	Solid	3541	
440-82503-28	MH-SB-57-0-0.5	Total/NA	Solid	3541	
440-82503-29	MH-SB-57-1.5-2	Total/NA	Solid	3541	
440-82503-30	MH-SB-56-0-0.5	Total/NA	Solid	3541	
440-82503-31	MH-SB-56-1.5-2	Total/NA	Solid	3541	
440-82503-32	MH-SB-50-0-0.5	Total/NA	Solid	3541	

Analysis Batch: 111268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-20	MH-SB-61-0-0.5	Total/NA	Solid	8141A	111242
440-82503-21	MH-SB-61-1.5-2	Total/NA	Solid	8141A	111242
440-82503-22	MH-SB-60-0-0.5	Total/NA	Solid	8141A	111242
440-82503-23	MH-SB-60-1.5-2	Total/NA	Solid	8141A	111242
440-82503-24	MH-SB-59-0-0.5	Total/NA	Solid	8141A	111242
440-82503-25	MH-SB-59-1.5-2	Total/NA	Solid	8141A	111242
440-82503-26	MH-SB-58-0-0.5	Total/NA	Solid	8141A	111242
440-82503-27	MH-SB-58-1.5-2	Total/NA	Solid	8141A	111242
440-82503-28	MH-SB-57-0-0.5	Total/NA	Solid	8141A	111242
440-82503-29	MH-SB-57-1.5-2	Total/NA	Solid	8141A	111242
440-82503-30	MH-SB-56-0-0.5	Total/NA	Solid	8141A	111242
440-82503-31	MH-SB-56-1.5-2	Total/NA	Solid	8141A	111242
440-82503-32	MH-SB-50-0-0.5	Total/NA	Solid	8141A	111242

Prep Batch: 111571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-33	MH-SB-50-1.5-2	Total/NA	Solid	3541	
440-82503-33 MS	MH-SB-50-1.5-2	Total/NA	Solid	3541	
440-82503-33 MSD	MH-SB-50-1.5-2	Total/NA	Solid	3541	
440-82503-34	MH-SB-50-0-0.5-FD	Total/NA	Solid	3541	
440-82503-35	MH-SB-51-0-0.5	Total/NA	Solid	3541	
440-82503-36	MH-SB-51-1.5-2	Total/NA	Solid	3541	
440-82503-37	MH-SB-53-0-0.5	Total/NA	Solid	3541	
440-82503-38	MH-SB-53-1.5-2	Total/NA	Solid	3541	
440-82503-39	MH-SB-52-0-0.5	Total/NA	Solid	3541	
440-82503-40	MH-SB-52-1.5-2	Total/NA	Solid	3541	

Analysis Batch: 111632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-33	MH-SB-50-1.5-2	Total/NA	Solid	8141A	111571
440-82503-33 MS	MH-SB-50-1.5-2	Total/NA	Solid	8141A	111571
440-82503-33 MSD	MH-SB-50-1.5-2	Total/NA	Solid	8141A	111571
440-82503-34	MH-SB-50-0-0.5-FD	Total/NA	Solid	8141A	111571
440-82503-35	MH-SB-51-0-0.5	Total/NA	Solid	8141A	111571
440-82503-36	MH-SB-51-1.5-2	Total/NA	Solid	8141A	111571

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

GC Semi VOA (Continued)

Analysis Batch: 111632 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-37	MH-SB-53-0-0.5	Total/NA	Solid	8141A	111571
440-82503-38	MH-SB-53-1.5-2	Total/NA	Solid	8141A	111571
440-82503-39	MH-SB-52-0-0.5	Total/NA	Solid	8141A	111571
440-82503-40	MH-SB-52-1.5-2	Total/NA	Solid	8141A	111571

Prep Batch: 193419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-20	MH-SB-61-0-0.5	Total/NA	Solid	3546	
440-82503-21	MH-SB-61-1.5-2	Total/NA	Solid	3546	
440-82503-22	MH-SB-60-0-0.5	Total/NA	Solid	3546	
440-82503-23	MH-SB-60-1.5-2	Total/NA	Solid	3546	
440-82503-24	MH-SB-59-0-0.5	Total/NA	Solid	3546	
440-82503-25	MH-SB-59-1.5-2	Total/NA	Solid	3546	
440-82503-26	MH-SB-58-0-0.5	Total/NA	Solid	3546	
440-82503-27	MH-SB-58-1.5-2	Total/NA	Solid	3546	
440-82503-29	MH-SB-57-1.5-2	Total/NA	Solid	3546	
440-82503-30	MH-SB-56-0-0.5	Total/NA	Solid	3546	
440-82503-32	MH-SB-50-0-0.5	Total/NA	Solid	3546	
440-82503-33	MH-SB-50-1.5-2	Total/NA	Solid	3546	
440-82503-34	MH-SB-50-0-0.5-FD	Total/NA	Solid	3546	

Prep Batch: 193676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-35	MH-SB-51-0-0.5	Total/NA	Solid	3546	
440-82503-36	MH-SB-51-1.5-2	Total/NA	Solid	3546	
440-82503-37	MH-SB-53-0-0.5	Total/NA	Solid	3546	
440-82503-38	MH-SB-53-1.5-2	Total/NA	Solid	3546	
440-82503-39	MH-SB-52-0-0.5	Total/NA	Solid	3546	
440-82503-40 - DL	MH-SB-52-1.5-2	Total/NA	Solid	3546	
440-82503-40	MH-SB-52-1.5-2	Total/NA	Solid	3546	

Analysis Batch: 193689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-20	MH-SB-61-0-0.5	Total/NA	Solid	8082	193419
440-82503-21	MH-SB-61-1.5-2	Total/NA	Solid	8082	193419
440-82503-22	MH-SB-60-0-0.5	Total/NA	Solid	8082	193419
440-82503-23	MH-SB-60-1.5-2	Total/NA	Solid	8082	193419
440-82503-24	MH-SB-59-0-0.5	Total/NA	Solid	8082	193419
440-82503-25	MH-SB-59-1.5-2	Total/NA	Solid	8082	193419
440-82503-26	MH-SB-58-0-0.5	Total/NA	Solid	8082	193419
440-82503-27	MH-SB-58-1.5-2	Total/NA	Solid	8082	193419
440-82503-29	MH-SB-57-1.5-2	Total/NA	Solid	8082	193419
440-82503-30	MH-SB-56-0-0.5	Total/NA	Solid	8082	193419
440-82503-32	MH-SB-50-0-0.5	Total/NA	Solid	8082	193419
440-82503-33	MH-SB-50-1.5-2	Total/NA	Solid	8082	193419
440-82503-34	MH-SB-50-0-0.5-FD	Total/NA	Solid	8082	193419
440-82503-35	MH-SB-51-0-0.5	Total/NA	Solid	8082	193676
440-82503-36	MH-SB-51-1.5-2	Total/NA	Solid	8082	193676
440-82503-40	MH-SB-52-1.5-2	Total/NA	Solid	8082	193676

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

GC Semi VOA (Continued)

Analysis Batch: 193754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-37	MH-SB-53-0-0.5	Total/NA	Solid	8081A	193676
440-82503-39	MH-SB-52-0-0.5	Total/NA	Solid	8081A	193676
440-82503-40	MH-SB-52-1.5-2	Total/NA	Solid	8081A	193676

Prep Batch: 194027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-20	MH-SB-61-0-0.5	Total/NA	Solid	3546	
440-82503-21	MH-SB-61-1.5-2	Total/NA	Solid	3546	
440-82503-22	MH-SB-60-0-0.5	Total/NA	Solid	3546	
440-82503-33	MH-SB-50-1.5-2	Total/NA	Solid	3546	
440-82503-33 MS	MH-SB-50-1.5-2	Total/NA	Solid	3546	
440-82503-33 MS	MH-SB-50-1.5-2	Total/NA	Solid	3546	
440-82503-33 MSD	MH-SB-50-1.5-2	Total/NA	Solid	3546	
440-82503-33 MSD	MH-SB-50-1.5-2	Total/NA	Solid	3546	
440-82503-34	MH-SB-50-0-0.5-FD	Total/NA	Solid	3546	

Analysis Batch: 194035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-35	MH-SB-51-0-0.5	Total/NA	Solid	8081A	193676
440-82503-36	MH-SB-51-1.5-2	Total/NA	Solid	8081A	193676
440-82503-38	MH-SB-53-1.5-2	Total/NA	Solid	8081A	193676
440-82503-40 - DL	MH-SB-52-1.5-2	Total/NA	Solid	8081A	193676

Analysis Batch: 194112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-37	MH-SB-53-0-0.5	Total/NA	Solid	8082	193676
440-82503-38	MH-SB-53-1.5-2	Total/NA	Solid	8082	193676
440-82503-39	MH-SB-52-0-0.5	Total/NA	Solid	8082	193676

Analysis Batch: 194318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-28	MH-SB-57-0-0.5	Total/NA	Solid	8082	194607
440-82503-31	MH-SB-56-1.5-2	Total/NA	Solid	8082	194607
440-82503-33	MH-SB-50-1.5-2	Total/NA	Solid	8082	194027
440-82503-33 MS	MH-SB-50-1.5-2	Total/NA	Solid	8082	194027
440-82503-33 MSD	MH-SB-50-1.5-2	Total/NA	Solid	8082	194027

Analysis Batch: 194574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-20	MH-SB-61-0-0.5	Total/NA	Solid	8081A	194027
440-82503-21	MH-SB-61-1.5-2	Total/NA	Solid	8081A	194027
440-82503-22	MH-SB-60-0-0.5	Total/NA	Solid	8081A	194027
440-82503-33	MH-SB-50-1.5-2	Total/NA	Solid	8081A	194027
440-82503-33 MS	MH-SB-50-1.5-2	Total/NA	Solid	8081A	194027
440-82503-33 MSD	MH-SB-50-1.5-2	Total/NA	Solid	8081A	194027
440-82503-34	MH-SB-50-0-0.5-FD	Total/NA	Solid	8081A	194027

Prep Batch: 194607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-23	MH-SB-60-1.5-2	Total/NA	Solid	3546	
440-82503-24	MH-SB-59-0-0.5	Total/NA	Solid	3546	

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

GC Semi VOA (Continued)

Prep Batch: 194607 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-25	MH-SB-59-1.5-2	Total/NA	Solid	3546	
440-82503-26	MH-SB-58-0-0.5	Total/NA	Solid	3546	
440-82503-27	MH-SB-58-1.5-2	Total/NA	Solid	3546	
440-82503-28	MH-SB-57-0-0.5	Total/NA	Solid	3546	
440-82503-29	MH-SB-57-1.5-2	Total/NA	Solid	3546	
440-82503-30	MH-SB-56-0-0.5	Total/NA	Solid	3546	
440-82503-31	MH-SB-56-1.5-2	Total/NA	Solid	3546	
440-82503-32	MH-SB-50-0-0.5	Total/NA	Solid	3546	

Analysis Batch: 195005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-23	MH-SB-60-1.5-2	Total/NA	Solid	8081A	194607
440-82503-24	MH-SB-59-0-0.5	Total/NA	Solid	8081A	194607
440-82503-25	MH-SB-59-1.5-2	Total/NA	Solid	8081A	194607
440-82503-26	MH-SB-58-0-0.5	Total/NA	Solid	8081A	194607
440-82503-27	MH-SB-58-1.5-2	Total/NA	Solid	8081A	194607
440-82503-28	MH-SB-57-0-0.5	Total/NA	Solid	8081A	194607
440-82503-29	MH-SB-57-1.5-2	Total/NA	Solid	8081A	194607
440-82503-30	MH-SB-56-0-0.5	Total/NA	Solid	8081A	194607
440-82503-31	MH-SB-56-1.5-2	Total/NA	Solid	8081A	194607
440-82503-32	MH-SB-50-0-0.5	Total/NA	Solid	8081A	194607

Definitions/Glossary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-15
Arizona	State Program	9	AZ0671	10-13-14
California	LA Cty Sanitation Districts	9	10256	01-31-15
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-15
Hawaii	State Program	9	N/A	01-29-15 *
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15
Northern Mariana Islands	State Program	9	MP0002	01-29-15
Oregon	NELAP	10	4005	01-29-15
USDA	Federal		P330-09-00080	06-06-15
USEPA UCMR	Federal	1	CA01531	01-31-15

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-15
California	NELAP	9	4224CA	03-31-14 *
Connecticut	State Program	1	PH-0688	09-30-14 *
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	01-31-15
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-15
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-15
North Carolina (WW/SW)	State Program	4	434	12-31-14
Pennsylvania	NELAP	3	02-00416	04-30-15
South Carolina	State Program	4	89014	04-30-14 *
Texas	NELAP	6	T104704528	03-31-15
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-14 *
West Virginia DEP	State Program	3	142	01-31-15
Wisconsin	State Program	5	998027800	08-31-14

* Certification renewal pending - certification considered valid.

TestAmerica Irvine

TestAmerica Irvine

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303D

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Lab PM: <u>Mata, Patty</u>		Carrier Tracking No(s):		COC No: <u>440-42843.1</u>	
Shipping/Receiving		Phone: <u>patty.mata@testamericainc.com</u>		Page: <u>Page 1 of 3</u>		Job #: <u>440-82503-1</u>	
Company: <u>TestAmerica Laboratories, Inc.</u>		Analysis Requested					
Address: <u>301 Alpha Drive, RIDC Park,</u>		Preservation Codes:					
City: <u>Pittsburgh</u>		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Anchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify)					
Project Name: <u>Malitou</u>		Other:					
Site:							
Due Date Requested: <u>7/17/2014</u>							
TAT Requested (days):							
PO #:							
WO #:							
Project #:							
44010851							
SSOW#:							
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
						Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
JC-SB-SB-31-0-0.5 (440-82503-9)		7/17/14		08:42 Pacific		Solid	
JC-SB-SB-31-1.5-2 (440-82503-10)		7/17/14		08:46 Pacific		Solid	
JC-SB-SB-32-0-0.5 (440-82503-11)		7/17/14		08:49 Pacific		Solid	
JC-SB-SB-32-0-0.5 (440-82503-11MS)		7/17/14		08:49 Pacific		MS	
JC-SB-SB-32-0-0.5 (440-82503-11MSD)		7/17/14		08:49 Pacific		MSD	
JC-SB-SB-32-1.5-2 (440-82503-12)		7/17/14		08:56 Pacific		Solid	
JC-SB-SB-32-1.5-2-FD (440-82503-13)		7/17/14		09:06 Pacific		Solid	
JC-SB-SB-42-0-0.5 (440-82503-14)		7/17/14		09:16 Pacific		Solid	
JC-SB-SB-42-1.5-2 (440-82503-15)		7/17/14		09:27 Pacific		Solid	
MH-SB-61-0-0.5 (440-82503-20)		7/17/14		13:11 Pacific		Solid	
MH-SB-61-1.5-2 (440-82503-21)		7/17/14		13:21 Pacific		Solid	
Possible Hazard Identification							
Unconfirmed							
Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <u>Va Banda</u>		7/8/14		17:00		Company: <u>TAI</u>	
Relinquished by:		Date/Time:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Date/Time:		Company:	
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

TestAmerica Irvine
17461 Derian Ave Suite 100
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30 BB

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:	Lab PM: Mata, Patty	Carrier Tracking No(s):	COC No: 440-42843.2				
Shipping/Receiving		Phone:	E-Mail: patty.mata@testamericainc.com		Page: Page 2 of 3				
Company:		Job #: 440-82503-1							
Address:		Analysis Requested							
City:		Preservation Codes:							
State, Zip:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify)							
Phone:		Other:							
Email:									
Project Name:									
Malibu									
Site:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastol, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	814A/3641 8141 Standard List	815A/815A SP Herbicide Method 815A Standard List	Total Number of Containers	Special Instructions/Note:
MH-SB-60-0-0.5 (440-82503-22)	7/7/14	13:29 Pacific	Solid			X	X	1	
MH-SB-60-1.5-2 (440-82503-23)	7/7/14	13:32 Pacific	Solid			X	X	1	
MH-SB-59-0-0.5 (440-82503-24)	7/7/14	13:36 Pacific	Solid			X	X	1	
MH-SB-59-1.5-2 (440-82503-25)	7/7/14	13:38 Pacific	Solid			X	X	1	
MH-SB-58-0-0.5 (440-82503-26)	7/7/14	13:40 Pacific	Solid			X	X	1	
MH-SB-58-1.5-2 (440-82503-27)	7/7/14	13:48 Pacific	Solid			X	X	1	
MH-SB-57-0-0.5 (440-82503-28)	7/7/14	13:55 Pacific	Solid			X	X	1	
MH-SB-57-1.5-2 (440-82503-29)	7/7/14	14:00 Pacific	Solid			X	X	1	
MH-SB-56-0-0.5 (440-82503-30)	7/7/14	14:04 Pacific	Solid			X	X	1	
MH-SB-56-1.5-2 (440-82503-31)	7/7/14	14:10 Pacific	Solid			X	X	1	
MH-SB-50-0-0.5 (440-82503-32)	7/7/14	14:11 Pacific	Solid			X	X	1	
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:									
Date/Time: 7/8/14 17:00									
Company: TAI									
Relinquished by: Vn Banku									
Date/Time: 7/8/14 17:00									
Company: TAI									
Relinquished by:									
Date/Time: 7/9/14 10:36									
Company: TAI									
Relinquished by:									
Date/Time:									
Company:									
Custody Seal No.: Δ Yes Δ No									
Custody Seal Intact:									
Cooler Temperature(s) °C and Other Remarks:									

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TestAmerica Irvine

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30B3

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 301 Alpha Drive, RIDC Park, City: Pittsburgh State, Zip: PA, 15238 Phone: 412-963-7058 (Tel) 412-963-2468 (Fax) Email: Project Name: Malibu Site: 		Lab PM: Mata, Patty E-Mail: patty.mata@testamericainc.com Phone: 	Carrier Tracking No(s): 440-42843.3 Page: Page 3 of 3 Job #: 440-82503-1
Due Date Requested: 7/17/2014 TAT Requested (days): 		Analysis Requested	
PO #: WO #: Project #: 44010851 SSOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: 	
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:	
MH-SB-50-1.5-2 (440-82503-33)	Sample Date 7/17/14	Sample Time 14:17 Pacific	Matrix (W=water, S=solid, O=waste/oil, L=to-tissue, A=air) Solid
MH-SB-50-1.5-2 (440-82503-33MS)	Sample Date 7/17/14	Sample Time 14:17 Pacific	Matrix (W=water, S=solid, O=waste/oil, L=to-tissue, A=air) Solid
MH-SB-50-1.5-2 (440-82503-33MSD)	Sample Date 7/17/14	Sample Time 14:17 Pacific	Matrix (W=water, S=solid, O=waste/oil, L=to-tissue, A=air) Solid
MH-SB-50-0.0.5-FD (440-82503-34)	Sample Date 7/17/14	Sample Time 14:19 Pacific	Matrix (W=water, S=solid, O=waste/oil, L=to-tissue, A=air) Solid
MH-SB-51-0.0.5 (440-82503-35)	Sample Date 7/17/14	Sample Time 14:28 Pacific	Matrix (W=water, S=solid, O=waste/oil, L=to-tissue, A=air) Solid
MH-SB-51-1.5-2 (440-82503-36)	Sample Date 7/17/14	Sample Time 14:31 Pacific	Matrix (W=water, S=solid, O=waste/oil, L=to-tissue, A=air) Solid
MH-SB-53-0.0.5 (440-82503-37)	Sample Date 7/17/14	Sample Time 14:35 Pacific	Matrix (W=water, S=solid, O=waste/oil, L=to-tissue, A=air) Solid
MH-SB-53-1.5-2 (440-82503-38)	Sample Date 7/17/14	Sample Time 14:39 Pacific	Matrix (W=water, S=solid, O=waste/oil, L=to-tissue, A=air) Solid
MH-SB-52-0.0.5 (440-82503-39)	Sample Date 7/17/14	Sample Time 14:43 Pacific	Matrix (W=water, S=solid, O=waste/oil, L=to-tissue, A=air) Solid
MH-SB-52-1.5-2 (440-82503-40)	Sample Date 7/17/14	Sample Time 14:50 Pacific	Matrix (W=water, S=solid, O=waste/oil, L=to-tissue, A=air) Solid
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>V. B. B. B.</i>	Date/Time: 7/8/14 17:00	Received by: <i>[Signature]</i>	Date/Time: 7/8/14 17:00
Relinquished by:	Date/Time:	Received by: <i>[Signature]</i>	Date/Time: 7/9/14 10:30
Relinquished by:	Date/Time:	Received by:	Date/Time:
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	



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CHAIN-OF-CUSTODY

NO 09886

PAGE 1 of 4

MSA#: _____ WO#: _____

FIELD PERSON: A. Caron / K. Sutherland

PROJECT MANAGER: Saraa Dergham

LABORATORY: Test America

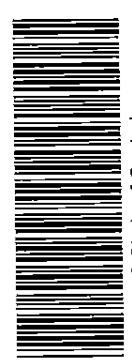
PROJECT NAME / FACILITY ID: SMMUSD

PROJECT NUMBER: 04-33980A DATE: 7/7/14

PROJECT LOCATION: Malibu, CA

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: SIGNATURE: <u>Amy Caron</u>	YEAR 2014	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (ft)	AIR SAMPLE VOLUME (L)	MATRIX (A) AIR (S) SOIL (G) GAS (M) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED			COMMENTS
										SVOCs 8270C	TPH - Full CC	Metals 6010/7000	
JC-SB-58-4.5-5		7/7/14	1330	4.5	/	S	1	U	N	X	X	X	email results to: sdergham@testamerc.com
JC-SB-58-14.5-15		7/7/14	1333	14.5	/					X	X	X	" "
JC-SB-58-24.5-25		7/7/14	1405	24.5	/					X	X	X	" "
JC-SB-58-34.5-35		7/7/14	1451	34.5	/					X	X	X	" "
JC-SB-59-4.5-5		7/7/14	1404	4.5	/					X	X	X	" "
JC-SB-59-14.5-15		7/7/14	1422	14.5	/					X	X	X	" "
JC-SB-59-24.5-25		7/7/14	1052	24.5	/					X	X	X	" "
JC-SB-59-34.5-35		7/7/14	1058	34.5	/					X	X	X	" "
TOTAL XXXX 8													
RELINQUISHED BY: <u>Tess Durn</u> TIME/DATE: <u>7/7/14</u> RECEIVED BY: <u>Tess Durn</u> TIME/DATE: <u>7-7-14</u>													
RELINQUISHED BY: <u>Tess Durn</u> TIME/DATE: <u>7-7-14</u> RECEIVED BY: <u>Tess Durn</u> TIME/DATE: <u>7-7-14</u>													
RELINQUISHED BY: <u>Tess Durn</u> TIME/DATE: <u>7-7-14</u> RECEIVED BY: <u>Tess Durn</u> TIME/DATE: <u>7-7-14</u>													



440-82503 Chain of Custody

TURNAROUND TIME (CIRCLE ONE)

SAME DAY 24 HOURS 48 HOURS 72 HOURS 5 DAYS

NORMAL

IF SEALED, SEAL INTEGRITY

INTACT: Y N



CHAIN-OF-CUSTODY

NO 10079

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(602) 734-7701 (fax)

PROJECT NAME / FACILITY ID: SMMUSD

PROJECT NUMBER: 0433980A

DATE: 7/7/14

PROJECT LOCATION: Malibu, CA

MSA#: WO#:

FIELD PERSON: K. Sutherland/A. Caran

PROJECT MANAGER: S. Deshaun

LABORATORY: Test America

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: <u>Kevin Sutherland</u>	SIGNATURE: <u>[Signature]</u>	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (ft)	AIR SAMPLE VOLUME (L)	MATRIX (A) AIR (S) SOIL (G) GAS (M) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED				COMMENTS
											8141 and 8081 Herbicides by 8151 Metals by 610/7000 Lead by 6010 PCBs by 80814 MS/MSD	6010 Lead by 6010 PCBs by 80814 MS/MSD	6010 Lead by 6010 PCBs by 80814 MS/MSD	6010 Lead by 6010 PCBs by 80814 MS/MSD	
JC-SB-31-0-0.5		2014	7/7/14	0842	0.5	1	S	1	U	20	X	X	X	X	See pg 1
JC-SB-31-1.5-2			7/7/14	0846	1.5	1		1			X	X	X	X	
JC-SB-32-0-0.5			7/7/14	0849	0.5	2		2			X	X	X	X	
JC-SB-32-1.5-2			7/7/14	0856	1.5	1		1			X	X	X	X	
JC-SB-32-1.5-2-FD			7/7/14	0906	1.5	1		1			X	X	X	X	
JC-SB-42-0-0.5			7/7/14	0916	0.5	1		1			X	X	X	X	
JC-SB-42-1.5-2			7/7/14	0921	1.5	1		1			X	X	X	X	
BKRD-1-0-0.5			7/7/14	0950	0.5	1		1							
BKRD-2-0-0.5			7/7/14	1005	0.5	1		1							
BKRD-3-0-0.5			7/7/14	1011	0.5	1		1							
BKRD-4-0-0.5			7/7/14	1022	0.5	1		1							
MA-SB-61-0-0.5			7/7/14	1314	0.5	1		1			X	X	X	X	
MA-SB-61-1.5-2			7/7/14	1521	1.5	1		1			X	X	X	X	
TOTAL															

RELINQUISHED BY: <u>[Signature]</u>	TIME/DATE: <u>1520 7/7/14</u>	RECEIVED BY: <u>Test Duann</u>	TIME/DATE: <u>7-7-14 15:20</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY 24 HOURS 48 HOURS	72 HOURS 5 DAYS NORMAL
RELINQUISHED BY: <u>Test Duann</u>	TIME/DATE: <u>7-7-14 15:20</u>	RECEIVED BY: <u>[Signature]</u>	TIME/DATE: <u>07/07/14 18:20</u>	SAMPLE INTEGRITY	INTACT: Y N	IF SEALED, SEAL INTEGRITY
RELINQUISHED BY: <u>Test Duann</u>	TIME/DATE: <u>7-7-14 15:20</u>	RECEIVED BY: <u>[Signature]</u>	TIME/DATE: <u>07/07/14 18:20</u>	Temp	31.2/29.5	33.0/31.1



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CHAIN-OF-CUSTODY

Nº 10080

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PROJECT NAME / FACILITY ID: SMMJSD

PROJECT NUMBER: 0433980A

PROJECT LOCATION: Malibu, CA

DATE: 7/7/14

MSA#: _____

WO#: _____

FIELD PERSON: K. Sutherland/A. Caron

PROJECT MANAGER: S. Derahm

LABORATORY: Test Ambica

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: <u>Kerry Sutherland</u>		YEAR <u>2014</u>	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (ft)	AIR SAMPLE VOLUME (L)	MATRIX (A) AIR (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED												COMMENTS		
SIGNATURE: <u>[Signature]</u>											Residuals by 8/11/14	Metals by 6/10/14	Leads by 6/10/14	PCBs by 8/28/14	MS/MSD										
SAMPLE I.D. NUMBER			7/7	1329	0.5	✓	S	1	U	NO	X	X	X	X	X	X	X	X	X	X	X	X	X	X	See pg 1
MH-SB-60-0-0.5					1.5-2			1			X	X	X	X	X	X	X	X	X	X	X	X	X		
MH-SB-65-1.5-2					0.5			1			X	X	X	X	X	X	X	X	X	X	X	X	X		
MH-SB-59-0-0.5					1.5-2			1			X	X	X	X	X	X	X	X	X	X	X	X	X		
MH-SB-59-1.5-2					0.5			1			X	X	X	X	X	X	X	X	X	X	X	X	X		
MH-SB-58-0-0.5					1.5-2			1			X	X	X	X	X	X	X	X	X	X	X	X	X		
MH-SB-58-1.5-2					0.5			1			X	X	X	X	X	X	X	X	X	X	X	X	X		
MH-SB-57-0-0.5					1.5-2			1			X	X	X	X	X	X	X	X	X	X	X	X	X		
MH-SB-57-1.5-2					0.5			1			X	X	X	X	X	X	X	X	X	X	X	X	X		
MH-SB-56-0-0.5					1.5-2			1			X	X	X	X	X	X	X	X	X	X	X	X	X		
MH-SB-56-1.5-2					0.5			1			X	X	X	X	X	X	X	X	X	X	X	X	X		
MH-SB-50-0-0.5					1.5-2			1			X	X	X	X	X	X	X	X	X	X	X	X	X		
MH-SB-50-1.5-2					0.5			2			X	X	X	X	X	X	X	X	X	X	X	X	X		
MH-SB-50-0-0.5-FD			✓	1419	0.5	✓	✓	1	✓	✓	X	X	X	X	X	X	X	X	X	X	X	X	X		
TOTAL			✓	XXXX	XXXX	XXXX																			

RELINQUISHED BY:	TIME/DATE: 1570 7/7/14	RECEIVED BY: Tessa Dunn	TIME/DATE: 7-7-14	TURNAROUND TIME (CIRCLE ONE) 24 HOURS 48 HOURS	SAME DAY	72 HOURS
RELINQUISHED BY: Tessa Dunn	TIME/DATE: 7-7-14 6:00	(COMPANY): DCS	RECEIVED BY: DCS	TIME/DATE: 07/07/14	15:20	5 DAYS
RELINQUISHED BY: Tessa Dunn	TIME/DATE: 7-7-14 6:00	(COMPANY): DCS	RECEIVED BY: TAI	TIME/DATE: 18:20	IF SEALED, SEAL INTEGRITY	INTACT: Y N
					INTACT: Y N	Temp: 3.1°C/2.9°C

CHAIN-OF-CUSTODY

No 10081

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PROJECT NAME / FACILITY ID: SMUSD

PROJECT NUMBER: 0433980A DATE: 7/7/14

PROJECT LOCATION: Malibu, CA

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: Kevin Switzerland		SIGNATURE: 		YEAR 2014									
SAMPLE I.D. NUMBER		SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (ft)	AIR SAMPLE VOLUME (L)	MATRIX (A) AIR (S) SOIL (G) GAS (M) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	TEST CUES BY 8/15/08 Herbicides by 8/15/08 Metals by 6/10/1000 Lead by 6/10/1000 PCB's by 8/08/08 MS/KSD	COMMENTS	
MH-SB-51-0-0.5		7/7	1428	0.5	✓	S	1	U	NO	X	X	see pg 1	
MH-SB-51-1.5-2		7/7	1431	1.5			1			X	X		
MH-SB-53-0-0.5		7/7	1435	0.5			1			X	X		
MH-SB-53-1.5-2		7/7	1439	1.5			1			X	X		
MH-SB-52-0-0.5		7/7	1443	0.5			1			X	X		
MH-SB-52-1.5-2		7/7	1450	1.5			1			X	X		
TOTAL		XXX		XXX									
RELINQUISHED BY: 		TIME/DATE: 1520 7/14	RECEIVED BY: Tess Dunn		TIME/DATE: 1520 7-7-14	TURNAROUND TIME (CIRCLE ONE)		SAME DAY 72 HOURS		5 DAYS 72 HOURS		IF SEALED, SEAL INTEGRITY INTACT: Y N	
RELINQUISHED BY: 		TIME/DATE: 1520 7/14	RECEIVED BY: DCS		TIME/DATE: 1520 7-7-14	TURNAROUND TIME (CIRCLE ONE)		SAME DAY 72 HOURS		5 DAYS 72 HOURS			IF SEALED, SEAL INTEGRITY INTACT: Y N
RELINQUISHED BY: 		TIME/DATE: 1520 7-7-14	RECEIVED BY: DCS		TIME/DATE: 1520 7-7-14	TURNAROUND TIME (CIRCLE ONE)		SAME DAY 72 HOURS		5 DAYS 72 HOURS			

FILE: LOG FORMS\Chain of Custody

Login Sample Receipt Checklist

Client: ENVIRON International Corp.

Job Number: 440-82503-1

Login Number: 82503

List Source: TestAmerica Irvine

List Number: 1

Creator: Freitag, Kevin R

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ENVIRON International Corp.

Job Number: 440-82503-1

Login Number: 82503

List Number: 2

Creator: Pyo, Nick

List Source: TestAmerica Pittsburgh

List Creation: 07/09/14 12:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ENVIRON International Corp.

Job Number: 440-82503-1

Login Number: 82503

List Number: 3

Creator: Pyo, Nick

List Source: TestAmerica Pittsburgh

List Creation: 07/09/14 12:38 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-82503-2

Client Project/Site: SMMUSD

Revision: 2

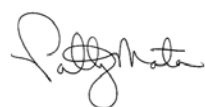
For:

ENVIRON International Corp.

18100 Von Karman Avenue

Irvine, California 92612

Attn: Safaa Dergham



Authorized for release by:

8/8/2014 2:26:41 PM

Patty Mata, Senior Project Manager

(949)261-1022

patty.mata@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-82503-20	MH-SB-61-0-0.5	Solid	07/07/14 13:11	07/07/14 18:20
440-82503-21	MH-SB-61-1.5-2	Solid	07/07/14 13:21	07/07/14 18:20
440-82503-22	MH-SB-60-0-0.5	Solid	07/07/14 13:29	07/07/14 18:20
440-82503-23	MH-SB-60-1.5-2	Solid	07/07/14 13:32	07/07/14 18:20
440-82503-24	MH-SB-59-0-0.5	Solid	07/07/14 13:36	07/07/14 18:20
440-82503-25	MH-SB-59-1.5-2	Solid	07/07/14 13:38	07/07/14 18:20
440-82503-26	MH-SB-58-0-0.5	Solid	07/07/14 13:40	07/07/14 18:20
440-82503-27	MH-SB-58-1.5-2	Solid	07/07/14 13:48	07/07/14 18:20
440-82503-28	MH-SB-57-0-0.5	Solid	07/07/14 13:55	07/07/14 18:20
440-82503-29	MH-SB-57-1.5-2	Solid	07/07/14 14:00	07/07/14 18:20
440-82503-30	MH-SB-56-0-0.5	Solid	07/07/14 14:04	07/07/14 18:20
440-82503-31	MH-SB-56-1.5-2	Solid	07/07/14 14:10	07/07/14 18:20
440-82503-32	MH-SB-50-0-0.5	Solid	07/07/14 14:11	07/07/14 18:20
440-82503-33	MH-SB-50-1.5-2	Solid	07/07/14 14:17	07/07/14 18:20
440-82503-34	MH-SB-50-0-0.5-FD	Solid	07/07/14 14:19	07/07/14 18:20
440-82503-35	MH-SB-51-0-0.5	Solid	07/07/14 14:28	07/07/14 18:20
440-82503-36	MH-SB-51-1.5-2	Solid	07/07/14 14:31	07/07/14 18:20
440-82503-37	MH-SB-53-0-0.5	Solid	07/07/14 14:35	07/07/14 18:20
440-82503-38	MH-SB-53-1.5-2	Solid	07/07/14 14:39	07/07/14 18:20
440-82503-39	MH-SB-52-0-0.5	Solid	07/07/14 14:43	07/07/14 18:20
440-82503-40	MH-SB-52-1.5-2	Solid	07/07/14 14:50	07/07/14 18:20

Case Narrative

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Job ID: 440-82503-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-82503-2

Comments

Only the results for samples with IDs that start with "MH" are included in this report.

EPA 8151 Herbicide results are included in this report. All other results were reported separately.

Receipt

The samples were received on 7/7/2014 6:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.9° C and 3.1° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Client Sample ID: MH-SB-61-0-0.5

Lab Sample ID: 440-82503-20

Date Collected: 07/07/14 13:11

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/15/14 21:34	07/21/14 15:41	20
2,4,5-T	ND		20	ug/Kg		07/15/14 21:34	07/21/14 15:41	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/15/14 21:34	07/21/14 15:41	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	102		42 - 140			07/15/14 21:34	07/21/14 15:41	20

Client Sample ID: MH-SB-61-1.5-2

Lab Sample ID: 440-82503-21

Date Collected: 07/07/14 13:21

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/15/14 21:34	07/21/14 16:05	20
2,4,5-T	ND		20	ug/Kg		07/15/14 21:34	07/21/14 16:05	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/15/14 21:34	07/21/14 16:05	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	75		42 - 140			07/15/14 21:34	07/21/14 16:05	20

Client Sample ID: MH-SB-60-0-0.5

Lab Sample ID: 440-82503-22

Date Collected: 07/07/14 13:29

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/15/14 21:34	07/21/14 16:30	20
2,4,5-T	ND		20	ug/Kg		07/15/14 21:34	07/21/14 16:30	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/15/14 21:34	07/21/14 16:30	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	97		42 - 140			07/15/14 21:34	07/21/14 16:30	20

Client Sample ID: MH-SB-60-1.5-2

Lab Sample ID: 440-82503-23

Date Collected: 07/07/14 13:32

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/15/14 21:34	07/21/14 17:20	20
2,4,5-T	ND		20	ug/Kg		07/15/14 21:34	07/21/14 17:20	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/15/14 21:34	07/21/14 17:20	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	54		42 - 140			07/15/14 21:34	07/21/14 17:20	20

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Client Sample ID: MH-SB-59-0-0.5

Lab Sample ID: 440-82503-24

Date Collected: 07/07/14 13:36

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/15/14 21:34	07/21/14 17:45	20
2,4,5-T	ND		20	ug/Kg		07/15/14 21:34	07/21/14 17:45	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/15/14 21:34	07/21/14 17:45	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	111		42 - 140			07/15/14 21:34	07/21/14 17:45	20

Client Sample ID: MH-SB-59-1.5-2

Lab Sample ID: 440-82503-25

Date Collected: 07/07/14 13:38

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/15/14 21:34	07/21/14 18:10	20
2,4,5-T	ND		20	ug/Kg		07/15/14 21:34	07/21/14 18:10	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/15/14 21:34	07/21/14 18:10	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	99		42 - 140			07/15/14 21:34	07/21/14 18:10	20

Client Sample ID: MH-SB-58-0-0.5

Lab Sample ID: 440-82503-26

Date Collected: 07/07/14 13:40

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/15/14 21:34	07/21/14 18:35	20
2,4,5-T	ND		20	ug/Kg		07/15/14 21:34	07/21/14 18:35	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/15/14 21:34	07/21/14 18:35	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	82		42 - 140			07/15/14 21:34	07/21/14 18:35	20

Client Sample ID: MH-SB-58-1.5-2

Lab Sample ID: 440-82503-27

Date Collected: 07/07/14 13:48

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/15/14 21:34	07/21/14 19:00	20
2,4,5-T	ND		20	ug/Kg		07/15/14 21:34	07/21/14 19:00	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/15/14 21:34	07/21/14 19:00	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	71		42 - 140			07/15/14 21:34	07/21/14 19:00	20

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Client Sample ID: MH-SB-57-0-0.5

Lab Sample ID: 440-82503-28

Date Collected: 07/07/14 13:55

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/15/14 21:34	07/21/14 19:24	20
2,4,5-T	ND		20	ug/Kg		07/15/14 21:34	07/21/14 19:24	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/15/14 21:34	07/21/14 19:24	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	80		42 - 140			07/15/14 21:34	07/21/14 19:24	20

Client Sample ID: MH-SB-57-1.5-2

Lab Sample ID: 440-82503-29

Date Collected: 07/07/14 14:00

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/15/14 21:34	07/21/14 19:49	20
2,4,5-T	ND		20	ug/Kg		07/15/14 21:34	07/21/14 19:49	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/15/14 21:34	07/21/14 19:49	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	69		42 - 140			07/15/14 21:34	07/21/14 19:49	20

Client Sample ID: MH-SB-56-0-0.5

Lab Sample ID: 440-82503-30

Date Collected: 07/07/14 14:04

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		79	ug/Kg		07/15/14 21:34	07/21/14 20:14	20
2,4,5-T	ND		20	ug/Kg		07/15/14 21:34	07/21/14 20:14	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/15/14 21:34	07/21/14 20:14	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	79		42 - 140			07/15/14 21:34	07/21/14 20:14	20

Client Sample ID: MH-SB-56-1.5-2

Lab Sample ID: 440-82503-31

Date Collected: 07/07/14 14:10

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/15/14 21:34	07/21/14 20:38	20
2,4,5-T	ND		20	ug/Kg		07/15/14 21:34	07/21/14 20:38	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/15/14 21:34	07/21/14 20:38	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	92		42 - 140			07/15/14 21:34	07/21/14 20:38	20

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Client Sample ID: MH-SB-50-0-0.5

Lab Sample ID: 440-82503-32

Date Collected: 07/07/14 14:11

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/15/14 21:34	07/21/14 21:03	20
2,4,5-T	ND		20	ug/Kg		07/15/14 21:34	07/21/14 21:03	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/15/14 21:34	07/21/14 21:03	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	78		42 - 140			07/15/14 21:34	07/21/14 21:03	20

Client Sample ID: MH-SB-50-1.5-2

Lab Sample ID: 440-82503-33

Date Collected: 07/07/14 14:17

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/18/14 06:43	07/21/14 22:17	20
2,4,5-T	ND		20	ug/Kg		07/18/14 06:43	07/21/14 22:17	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/18/14 06:43	07/21/14 22:17	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	104		42 - 140			07/18/14 06:43	07/21/14 22:17	20

Client Sample ID: MH-SB-50-0-0.5-FD

Lab Sample ID: 440-82503-34

Date Collected: 07/07/14 14:19

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/18/14 06:43	07/21/14 23:30	20
2,4,5-T	ND		20	ug/Kg		07/18/14 06:43	07/21/14 23:30	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/18/14 06:43	07/21/14 23:30	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	114		42 - 140			07/18/14 06:43	07/21/14 23:30	20

Client Sample ID: MH-SB-51-0-0.5

Lab Sample ID: 440-82503-35

Date Collected: 07/07/14 14:28

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/18/14 06:43	07/21/14 23:55	20
2,4,5-T	ND		20	ug/Kg		07/18/14 06:43	07/21/14 23:55	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/18/14 06:43	07/21/14 23:55	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	96		42 - 140			07/18/14 06:43	07/21/14 23:55	20

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Client Sample ID: MH-SB-51-1.5-2

Lab Sample ID: 440-82503-36

Date Collected: 07/07/14 14:31

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/18/14 06:43	07/22/14 00:19	20
2,4,5-T	ND		20	ug/Kg		07/18/14 06:43	07/22/14 00:19	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/18/14 06:43	07/22/14 00:19	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	79		42 - 140			07/18/14 06:43	07/22/14 00:19	20

Client Sample ID: MH-SB-53-0-0.5

Lab Sample ID: 440-82503-37

Date Collected: 07/07/14 14:35

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/18/14 06:43	07/22/14 00:44	20
2,4,5-T	ND		20	ug/Kg		07/18/14 06:43	07/22/14 00:44	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/18/14 06:43	07/22/14 00:44	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	113		42 - 140			07/18/14 06:43	07/22/14 00:44	20

Client Sample ID: MH-SB-53-1.5-2

Lab Sample ID: 440-82503-38

Date Collected: 07/07/14 14:39

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/18/14 06:43	07/22/14 01:08	20
2,4,5-T	ND		20	ug/Kg		07/18/14 06:43	07/22/14 01:08	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/18/14 06:43	07/22/14 01:08	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	101		42 - 140			07/18/14 06:43	07/22/14 01:08	20

Client Sample ID: MH-SB-52-0-0.5

Lab Sample ID: 440-82503-39

Date Collected: 07/07/14 14:43

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/18/14 06:43	07/22/14 02:21	20
2,4,5-T	ND		20	ug/Kg		07/18/14 06:43	07/22/14 02:21	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/18/14 06:43	07/22/14 02:21	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	94		42 - 140			07/18/14 06:43	07/22/14 02:21	20

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Client Sample ID: MH-SB-52-1.5-2

Lab Sample ID: 440-82503-40

Date Collected: 07/07/14 14:50

Matrix: Solid

Date Received: 07/07/14 18:20

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		80	ug/Kg		07/18/14 06:43	07/22/14 02:46	20
2,4,5-T	ND		20	ug/Kg		07/18/14 06:43	07/22/14 02:46	20
Silvex (2,4,5-TP)	ND		20	ug/Kg		07/18/14 06:43	07/22/14 02:46	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	121		42 - 140			07/18/14 06:43	07/22/14 02:46	20

Method Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Method	Method Description	Protocol	Laboratory
8151A	Herbicides (GC)	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Client Sample ID: MH-SB-61-0-0.5

Date Collected: 07/07/14 13:11

Date Received: 07/07/14 18:20

Lab Sample ID: 440-82503-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111553	07/15/14 21:34	CBY	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/21/14 15:41	JMO	TAL PIT

Client Sample ID: MH-SB-61-1.5-2

Date Collected: 07/07/14 13:21

Date Received: 07/07/14 18:20

Lab Sample ID: 440-82503-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111553	07/15/14 21:34	CBY	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/21/14 16:05	JMO	TAL PIT

Client Sample ID: MH-SB-60-0-0.5

Date Collected: 07/07/14 13:29

Date Received: 07/07/14 18:20

Lab Sample ID: 440-82503-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111553	07/15/14 21:34	CBY	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/21/14 16:30	JMO	TAL PIT

Client Sample ID: MH-SB-60-1.5-2

Date Collected: 07/07/14 13:32

Date Received: 07/07/14 18:20

Lab Sample ID: 440-82503-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111553	07/15/14 21:34	CBY	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/21/14 17:20	JMO	TAL PIT

Client Sample ID: MH-SB-59-0-0.5

Date Collected: 07/07/14 13:36

Date Received: 07/07/14 18:20

Lab Sample ID: 440-82503-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111553	07/15/14 21:34	CBY	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/21/14 17:45	JMO	TAL PIT

Client Sample ID: MH-SB-59-1.5-2

Date Collected: 07/07/14 13:38

Date Received: 07/07/14 18:20

Lab Sample ID: 440-82503-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111553	07/15/14 21:34	CBY	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/21/14 18:10	JMO	TAL PIT

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Client Sample ID: MH-SB-58-0-0.5

Lab Sample ID: 440-82503-26

Date Collected: 07/07/14 13:40

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.1 g	5.0 mL	111553	07/15/14 21:34	CBY	TAL PIT
Total/NA	Analysis	8151A		20	25.1 g	5.0 mL	112001	07/21/14 18:35	JMO	TAL PIT

Client Sample ID: MH-SB-58-1.5-2

Lab Sample ID: 440-82503-27

Date Collected: 07/07/14 13:48

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111553	07/15/14 21:34	CBY	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/21/14 19:00	JMO	TAL PIT

Client Sample ID: MH-SB-57-0-0.5

Lab Sample ID: 440-82503-28

Date Collected: 07/07/14 13:55

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111553	07/15/14 21:34	CBY	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/21/14 19:24	JMO	TAL PIT

Client Sample ID: MH-SB-57-1.5-2

Lab Sample ID: 440-82503-29

Date Collected: 07/07/14 14:00

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111553	07/15/14 21:34	CBY	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/21/14 19:49	JMO	TAL PIT

Client Sample ID: MH-SB-56-0-0.5

Lab Sample ID: 440-82503-30

Date Collected: 07/07/14 14:04

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.3 g	5.0 mL	111553	07/15/14 21:34	CBY	TAL PIT
Total/NA	Analysis	8151A		20	25.3 g	5.0 mL	112001	07/21/14 20:14	JMO	TAL PIT

Client Sample ID: MH-SB-56-1.5-2

Lab Sample ID: 440-82503-31

Date Collected: 07/07/14 14:10

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111553	07/15/14 21:34	CBY	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/21/14 20:38	JMO	TAL PIT

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Client Sample ID: MH-SB-50-0-0.5

Lab Sample ID: 440-82503-32

Date Collected: 07/07/14 14:11

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111553	07/15/14 21:34	CBY	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/21/14 21:03	JMO	TAL PIT

Client Sample ID: MH-SB-50-1.5-2

Lab Sample ID: 440-82503-33

Date Collected: 07/07/14 14:17

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111847	07/18/14 06:43	KLG	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/21/14 22:17	JMO	TAL PIT

Client Sample ID: MH-SB-50-0-0.5-FD

Lab Sample ID: 440-82503-34

Date Collected: 07/07/14 14:19

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.1 g	5.0 mL	111847	07/18/14 06:43	KLG	TAL PIT
Total/NA	Analysis	8151A		20	25.1 g	5.0 mL	112001	07/21/14 23:30	JMO	TAL PIT

Client Sample ID: MH-SB-51-0-0.5

Lab Sample ID: 440-82503-35

Date Collected: 07/07/14 14:28

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.1 g	5.0 mL	111847	07/18/14 06:43	KLG	TAL PIT
Total/NA	Analysis	8151A		20	25.1 g	5.0 mL	112001	07/21/14 23:55	JMO	TAL PIT

Client Sample ID: MH-SB-51-1.5-2

Lab Sample ID: 440-82503-36

Date Collected: 07/07/14 14:31

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.1 g	5.0 mL	111847	07/18/14 06:43	KLG	TAL PIT
Total/NA	Analysis	8151A		20	25.1 g	5.0 mL	112001	07/22/14 00:19	JMO	TAL PIT

Client Sample ID: MH-SB-53-0-0.5

Lab Sample ID: 440-82503-37

Date Collected: 07/07/14 14:35

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111847	07/18/14 06:43	KLG	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/22/14 00:44	JMO	TAL PIT

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Client Sample ID: MH-SB-53-1.5-2

Lab Sample ID: 440-82503-38

Date Collected: 07/07/14 14:39

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111847	07/18/14 06:43	KLG	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/22/14 01:08	JMO	TAL PIT

Client Sample ID: MH-SB-52-0-0.5

Lab Sample ID: 440-82503-39

Date Collected: 07/07/14 14:43

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.0 g	5.0 mL	111847	07/18/14 06:43	KLG	TAL PIT
Total/NA	Analysis	8151A		20	25.0 g	5.0 mL	112001	07/22/14 02:21	JMO	TAL PIT

Client Sample ID: MH-SB-52-1.5-2

Lab Sample ID: 440-82503-40

Date Collected: 07/07/14 14:50

Matrix: Solid

Date Received: 07/07/14 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.1 g	5.0 mL	111847	07/18/14 06:43	KLG	TAL PIT
Total/NA	Analysis	8151A		20	25.1 g	5.0 mL	112001	07/22/14 02:46	JMO	TAL PIT

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Method: 8151A - Herbicides (GC)

Lab Sample ID: 440-82503-33 MS

Matrix: Solid

Analysis Batch: 112001

Client Sample ID: MH-SB-50-1.5-2

Prep Type: Total/NA

Prep Batch: 111847

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	ND		160	106		ug/Kg		66	30 - 140
2,4,5-T	ND		160	111		ug/Kg		70	30 - 140
Silvex (2,4,5-TP)	ND		160	142		ug/Kg		89	40 - 130
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
2,4-Dichlorophenylacetic acid	111		42 - 140						

Lab Sample ID: 440-82503-33 MSD

Matrix: Solid

Analysis Batch: 112001

Client Sample ID: MH-SB-50-1.5-2

Prep Type: Total/NA

Prep Batch: 111847

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D	ND		160	99.7		ug/Kg		62	30 - 140	6	30
2,4,5-T	ND		160	101		ug/Kg		63	30 - 140	10	30
Silvex (2,4,5-TP)	ND		160	137		ug/Kg		86	40 - 130	4	30
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
2,4-Dichlorophenylacetic acid	101		42 - 140								

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

GC Semi VOA

Prep Batch: 111553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-20	MH-SB-61-0-0.5	Total/NA	Solid	8151A	
440-82503-21	MH-SB-61-1.5-2	Total/NA	Solid	8151A	
440-82503-22	MH-SB-60-0-0.5	Total/NA	Solid	8151A	
440-82503-23	MH-SB-60-1.5-2	Total/NA	Solid	8151A	
440-82503-24	MH-SB-59-0-0.5	Total/NA	Solid	8151A	
440-82503-25	MH-SB-59-1.5-2	Total/NA	Solid	8151A	
440-82503-26	MH-SB-58-0-0.5	Total/NA	Solid	8151A	
440-82503-27	MH-SB-58-1.5-2	Total/NA	Solid	8151A	
440-82503-28	MH-SB-57-0-0.5	Total/NA	Solid	8151A	
440-82503-29	MH-SB-57-1.5-2	Total/NA	Solid	8151A	
440-82503-30	MH-SB-56-0-0.5	Total/NA	Solid	8151A	
440-82503-31	MH-SB-56-1.5-2	Total/NA	Solid	8151A	
440-82503-32	MH-SB-50-0-0.5	Total/NA	Solid	8151A	

Prep Batch: 111847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-33	MH-SB-50-1.5-2	Total/NA	Solid	8151A	
440-82503-33 MS	MH-SB-50-1.5-2	Total/NA	Solid	8151A	
440-82503-33 MSD	MH-SB-50-1.5-2	Total/NA	Solid	8151A	
440-82503-34	MH-SB-50-0-0.5-FD	Total/NA	Solid	8151A	
440-82503-35	MH-SB-51-0-0.5	Total/NA	Solid	8151A	
440-82503-36	MH-SB-51-1.5-2	Total/NA	Solid	8151A	
440-82503-37	MH-SB-53-0-0.5	Total/NA	Solid	8151A	
440-82503-38	MH-SB-53-1.5-2	Total/NA	Solid	8151A	
440-82503-39	MH-SB-52-0-0.5	Total/NA	Solid	8151A	
440-82503-40	MH-SB-52-1.5-2	Total/NA	Solid	8151A	

Analysis Batch: 112001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-20	MH-SB-61-0-0.5	Total/NA	Solid	8151A	111553
440-82503-21	MH-SB-61-1.5-2	Total/NA	Solid	8151A	111553
440-82503-22	MH-SB-60-0-0.5	Total/NA	Solid	8151A	111553
440-82503-23	MH-SB-60-1.5-2	Total/NA	Solid	8151A	111553
440-82503-24	MH-SB-59-0-0.5	Total/NA	Solid	8151A	111553
440-82503-25	MH-SB-59-1.5-2	Total/NA	Solid	8151A	111553
440-82503-26	MH-SB-58-0-0.5	Total/NA	Solid	8151A	111553
440-82503-27	MH-SB-58-1.5-2	Total/NA	Solid	8151A	111553
440-82503-28	MH-SB-57-0-0.5	Total/NA	Solid	8151A	111553
440-82503-29	MH-SB-57-1.5-2	Total/NA	Solid	8151A	111553
440-82503-30	MH-SB-56-0-0.5	Total/NA	Solid	8151A	111553
440-82503-31	MH-SB-56-1.5-2	Total/NA	Solid	8151A	111553
440-82503-32	MH-SB-50-0-0.5	Total/NA	Solid	8151A	111553
440-82503-33	MH-SB-50-1.5-2	Total/NA	Solid	8151A	111847
440-82503-33 MS	MH-SB-50-1.5-2	Total/NA	Solid	8151A	111847
440-82503-33 MSD	MH-SB-50-1.5-2	Total/NA	Solid	8151A	111847
440-82503-34	MH-SB-50-0-0.5-FD	Total/NA	Solid	8151A	111847
440-82503-35	MH-SB-51-0-0.5	Total/NA	Solid	8151A	111847
440-82503-36	MH-SB-51-1.5-2	Total/NA	Solid	8151A	111847
440-82503-37	MH-SB-53-0-0.5	Total/NA	Solid	8151A	111847
440-82503-38	MH-SB-53-1.5-2	Total/NA	Solid	8151A	111847
440-82503-39	MH-SB-52-0-0.5	Total/NA	Solid	8151A	111847

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

GC Semi VOA (Continued)

Analysis Batch: 112001 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82503-40	MH-SB-52-1.5-2	Total/NA	Solid	8151A	111847

Definitions/Glossary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82503-2

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-15
Arizona	State Program	9	AZ0671	10-13-14
California	LA Cty Sanitation Districts	9	10256	01-31-15
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-15
Hawaii	State Program	9	N/A	01-29-15 *
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15
Northern Mariana Islands	State Program	9	MP0002	01-29-15
Oregon	NELAP	10	4005	01-29-15
USDA	Federal		P330-09-00080	06-06-15
USEPA UCMR	Federal	1	CA01531	01-31-15

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-15
California	NELAP	9	4224CA	03-31-14 *
Connecticut	State Program	1	PH-0688	09-30-14 *
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	01-31-15
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-15
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-15
North Carolina (WW/SW)	State Program	4	434	12-31-14
Pennsylvania	NELAP	3	02-00416	04-30-15
South Carolina	State Program	4	89014	04-30-14 *
Texas	NELAP	6	T104704528	03-31-15
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-14 *
West Virginia DEP	State Program	3	142	01-31-15
Wisconsin	State Program	5	998027800	08-31-14

* Certification renewal pending - certification considered valid.

TestAmerica Irvine



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CHAIN-OF-CUSTODY

NO 09886

PAGE 1 of 4

MSA#: _____ WO#: _____

FIELD PERSON: A. Caron / K. Sutherland

PROJECT MANAGER: Saraa Dergham

LABORATORY: Test America

PROJECT NAME / FACILITY ID: SMMUSD

PROJECT NUMBER: 04-33980A DATE: 7/7/14

PROJECT LOCATION: Malibu, CA

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: SIGNATURE: <u>Amy Caron</u>	YEAR 2014	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (ft)	AIR SAMPLE VOLUME (L)	MATRIX (A) AIR (S) SOIL (G) GAS (M) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED			COMMENTS
										SVOCs 8270C	TPH - Full CC	Metals 6010/7000	
JC-SB-58-4.5-5		7/7/14	1330	4.5	/	S	1	U	N	X	X	X	email results to: sdergham@envirocorp.com
JC-SB-58-14.5-15		7/7/14	1333	14.5	/					X	X	X	" "
JC-SB-58-24.5-25		7/7/14	1405	24.5	/					X	X	X	" "
JC-SB-58-34.5-35		7/7/14	1451	34.5	/					X	X	X	" "
JC-SB-59-4.5-5		7/7/14	1404	4.5	/					X	X	X	" "
JC-SB-59-14.5-15		7/7/14	1422	14.5	/					X	X	X	" "
JC-SB-59-24.5-25		7/7/14	1052	24.5	/					X	X	X	" "
JC-SB-59-34.5-35		7/7/14	1058	34.5	/					X	X	X	" "
TOTAL XXXX 8													
RELINQUISHED BY: <u>Tess Durn</u> TIME/DATE: <u>7/7/14 15:20</u>													TURNAROUND TIME (CIRCLE ONE) SAME DAY 24 HOURS 48 HOURS 72 HOURS 5 DAYS NORMAL
RELINQUISHED BY: <u>Tess Durn</u> TIME/DATE: <u>7/7/14 18:20</u>													
RELINQUISHED BY: <u>Tess Durn</u> TIME/DATE: <u>7/7/14 18:20</u>													



440-82503 Chain of Custody

IF SEALED, SEAL INTEGRITY
INTACT: Y N
Temp 31.4°C
3.3/30/3.1



CHAIN-OF-CUSTODY

NO 10079

PAGE 2 of 4

☒ 18100 Von Karman Ave., Suite 600
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Phoenix, AZ 85016
(602) 734-7700
(602) 734-7701 (fax)

PROJECT NAME / FACILITY ID: SMMUSD

PROJECT NUMBER: 0433980A

DATE: 7/7/14

PROJECT LOCATION: Malibu, CA

MSA#: _____ WO#: _____

FIELD PERSON: K. Sutherland/A. Caran

PROJECT MANAGER: S. Deshaun

LABORATORY: Test America

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: <u>Kevin Sutherland</u>	SIGNATURE: <u>[Signature]</u>	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (ft)	AIR SAMPLE VOLUME (L)	MATRIX (A) AIR (S) SOIL (G) GAS (M) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED				COMMENTS			
											8141 and 8081 Herbicides by	Metals by 8151	610/7000 Lead by	PCBs by 80814 6010 by				
JC-SB-31-0-0.5		2014	7/7	0842	0.5	✓	S	1	U	20	X	X	X	X				See pg 1
JC-SB-31-1.5-2				0846	1.5			1			X	X	X	X				
JC-SB-32-0-0.5				0849	0.5			2			X	X	X	X				
JC-SB-32-1.5-2				0856	1.5			1			X	X	X	X				
JC-SB-32-1.5-2-FD				0906	1.5			1			X	X	X	X				
JC-SB-42-0-0.5				0916	0.5			1			X	X	X	X				
JC-SB-42-1.5-2				0921	1.5			1			X	X	X	X				
BKRD-1-0-0.5				0950	0.5			1				X						
BKRD-2-0-0.5				1005	0.5			1				X						
BKRD-3-0-0.5				1011	0.5			1				X						
BKRD-4-0-0.5				1022	0.5			1				X						
MA-SB-61-0-0.5				1314	0.5			1			X							
MA-SB-61-1.5-2				1521	1.5			1			X							
TOTAL				XXXX														

RELINQUISHED BY: <u>[Signature]</u>	TIME/DATE: <u>1520 7/7/14</u>	RECEIVED BY: <u>Test Duann</u>	TIME/DATE: <u>15:20</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY 24 HOURS 48 HOURS	72 HOURS 5 DAYS NORMAL	IF SEALED, SEAL INTEGRITY
RELINQUISHED BY: <u>Test Duann</u>	TIME/DATE: <u>7-7-14 8:20</u>	RECEIVED BY: <u>[Signature]</u>	TIME/DATE: <u>07/07/14 18:20</u>	SAMPLE INTEGRITY INTACT: Y N	Temp <u>31.2/29.5</u> <u>33.0/31.1</u>	INTACT: Y N	



CHAIN-OF-CUSTODY

NO 10080

PAGE 3 of 4

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☐ 1702 E Highland Avenue, Suite 412
Phoenix, AZ 85016
(602) 734-7700
(602) 734-7701 (fax)

PROJECT NAME / FACILITY ID: SMMJSD

PROJECT NUMBER: 0433980A

PROJECT LOCATION: Malibu, CA

DATE: 7/7/14

MSA#: _____

WO#: _____

FIELD PERSON: K. Sutherland/A. Caron

PROJECT MANAGER: S. Derham

LABORATORY: Test America

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: SIGNATURE	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (ft)	AIR SAMPLE VOLUME (L)	MATRIX (A) AIR (S) SOIL (G) GAS (M) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED		COMMENTS
										Metals by 8/15/14 Leads by 8/15/14 PCBs by 8/15/14 MS/MSD	Residues by 8/15/14 Metals by 8/15/14 Leads by 8/15/14 PCBs by 8/15/14	
		7/7	1329	0.5	✓	S	1	U	NO	X	X	See pg 1
	MH-SB-60-0-0.5		1332	1.5			1			X	X	
	MH-SB-65-1.5-2		1336	0.5			1			X	X	
	MH-SB-59-0-0.5		1338	1.5			1			X	X	
	MH-SB-57-1.5-2		1340	0.5			1			X	X	
	MH-SB-58-1.5-2		1348	1.5			1			X	X	
	MH-SB-57-0-0.5		1355	0.5			1			X	X	
	MH-SB-57-1.5-2		1400	1.5			1			X	X	
	MH-SB-56-0-0.5		1404	0.5			1			X	X	
	MH-SB-56-1.5-2		1410	1.5			1			X	X	
MH-SB-50-0-0.5		1411	0.5			1			X	X		
MH-SB-50-1.5-2		1417	1.5			2			X	X		
MH-SB-50-0-0.5-FD		1419	0.5			1			X	X		
TOTAL												

RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:	TURNAROUND TIME (CIRCLE ONE)	SAME DAY	24 HOURS	48 HOURS	72 HOURS	IF SEALED, SEAL INTEGRITY
	1570 7/7/14	PCS	15:20	(CIRCLE ONE)					
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:						
Tess Dunn	7-7-14 6:00	PCS	07/07/14 18:20						
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:						

INTACT:	Y	N	Temp	3.1-2.9	3.2-3.1	INTACT:	Y	N



CHAIN-OF-CUSTODY

NO 10081

PAGE 4 of 4

☒ 18100 Von Karman Ave., Suite 600
Irvine, CA 92612 (949) 261-5151 (949) 261-6202 (fax)

☐ 707 Wilshire Blvd., Suite 4950
Los Angeles, Calif. 90017 (213) 943-6300 (213) 943-6301 (fax)

☐ 1702 E Highland Avenue, Suite 412
Phoenix, AZ 85016 (602) 734-7700 (602) 734-7701 (fax)

MSA#: _____ WO#: _____

FIELD PERSON: K. Sutherland/A. Caron

PROJECT MANAGER: S. Deegham

LABORATORY: Test America

PROJECT NAME / FACILITY ID: SMMUSD

PROJECT NUMBER: 0433980A DATE: 7/7/14

PROJECT LOCATION: Malibu, CA

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: Kevin Sutherland		SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (ft)	AIR SAMPLE VOLUME (L)	MATRIX (A) AIR (S) SOIL (G) GAS (M) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED										COMMENTS		
SIGNATURE: 										PCBs by 8151	Herbicides by 8151	Metals by 6010/7000	Lead by 6010	PCBs by 8082/8151	MS/KD							
SAMPLE I.D. NUMBER																						
MH-SB-51-0-0.5		7/7	1428	0.5	✓	S	1	U	N0	X	X	X	X	X	X	X	X	X	X	X	X	see pg 1
MH-SB-51-1.5-2			1431	1.5			1			X	X	X	X	X	X	X	X	X	X	X		
MH-SB-53-0-0.5			1435	0.5			1			X	X	X	X	X	X	X	X	X	X	X		
MH-SB-53-1.5-2			1439	1.5			1			X	X	X	X	X	X	X	X	X	X	X		
MH-SB-52-0-0.5			1443	0.5			1			X	X	X	X	X	X	X	X	X	X	X		
MH-SB-52-1.5-2			1450	1.5			1			X	X	X	X	X	X	X	X	X	X	X		
TOTAL																						

RELINQUISHED BY: <u>[Signature]</u>	TIME/DATE: <u>1520 7/7/14</u>	RECEIVED BY: <u>Test Dunn</u>	TIME/DATE: <u>7-7-14</u>
RELINQUISHED BY: <u>Test Dunn</u>	TIME/DATE: <u>1520</u>	(COMPANY): <u>DCS</u>	TIME/DATE: <u>1520</u>
RELINQUISHED BY: <u>Test Dunn</u>	TIME/DATE: <u>7-7-14 6:20</u>	(COMPANY): <u>THS</u>	TIME/DATE: <u>07/07/14</u>
RELINQUISHED BY: _____	TIME/DATE: _____	(COMPANY): _____	TIME/DATE: <u>18:20</u>

SAMPLE INTEGRITY		IF SEALED, SEAL INTEGRITY	
INTACT: Y N	Temp <u>31.4/29.7</u>	INTACT: Y N	

Login Sample Receipt Checklist

Client: ENVIRON International Corp.

Job Number: 440-82503-2

Login Number: 82503

List Source: TestAmerica Irvine

List Number: 1

Creator: Freitag, Kevin R

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ENVIRON International Corp.

Job Number: 440-82503-2

Login Number: 82503

List Number: 2

Creator: Pyo, Nick

List Source: TestAmerica Pittsburgh

List Creation: 07/09/14 12:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ENVIRON International Corp.

Job Number: 440-82503-2

Login Number: 82503

List Number: 3

Creator: Pyo, Nick

List Source: TestAmerica Pittsburgh

List Creation: 07/09/14 12:38 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-82809-1

Client Project/Site: SMMUSD

Revision: 1

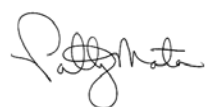
For:

ENVIRON International Corp.

18100 Von Karman Avenue

Irvine, California 92612

Attn: Safaa Dergham



Authorized for release by:

8/4/2014 4:06:39 PM

Patty Mata, Senior Project Manager

(949)261-1022

patty.mata@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Sample Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-82809-1	MH-SB-27A-0-0.5	Solid	07/08/14 07:38	07/08/14 20:15
440-82809-2	MH-SB-27A-1.5-2	Solid	07/08/14 07:43	07/08/14 20:15
440-82809-3	MH-SB-27B-0-0.5	Solid	07/08/14 07:48	07/08/14 20:15
440-82809-4	MH-SB-27B-1.5-2	Solid	07/08/14 07:55	07/08/14 20:15
440-82809-5	MH-SB-28A-0-0.5	Solid	07/08/14 08:03	07/08/14 20:15
440-82809-6	MH-SB-28A-1.5-2	Solid	07/08/14 08:08	07/08/14 20:15
440-82809-7	MH-SB-28B-0-0.5	Solid	07/08/14 08:11	07/08/14 20:15
440-82809-8	MH-SB-28B-1.5-2	Solid	07/08/14 08:27	07/08/14 20:15
440-82809-9	MH-SB-28B-0-0.5-FD	Solid	07/08/14 08:13	07/08/14 20:15
440-82809-10	MH-SB-29-0-0.5	Solid	07/08/14 08:44	07/08/14 20:15
440-82809-11	MH-SB-29-1.5-2	Solid	07/08/14 08:47	07/08/14 20:15
440-82809-12	MH-SB-30-0-0.5	Solid	07/08/14 08:34	07/08/14 20:15
440-82809-13	MH-SB-30-1.5-2	Solid	07/08/14 08:38	07/08/14 20:15
440-82809-14	MH-SB-31-0-0.5	Solid	07/08/14 08:55	07/08/14 20:15
440-82809-15	MH-SB-31-1.5-2	Solid	07/08/14 09:00	07/08/14 20:15
440-82809-16	MH-SB-32-0-0.5	Solid	07/08/14 09:09	07/08/14 20:15
440-82809-17	MH-SB-32-1.5-2	Solid	07/08/14 09:16	07/08/14 20:15
440-82809-18	MH-SB-33-0-0.5	Solid	07/08/14 09:46	07/08/14 20:15
440-82809-19	MH-SB-33-1.5-2	Solid	07/08/14 09:48	07/08/14 20:15
440-82809-20	MH-SB-34-0-0.5	Solid	07/08/14 10:02	07/08/14 20:15
440-82809-21	MH-SB-34-1.5-2	Solid	07/08/14 10:04	07/08/14 20:15
440-82809-27	MH-SB-44-0-0.5	Solid	07/08/14 07:53	07/08/14 20:15
440-82809-28	MH-SB-44-1.5-2	Solid	07/08/14 08:04	07/08/14 20:15
440-82809-29	MH-SB-45-0-0.5	Solid	07/08/14 08:07	07/08/14 20:15
440-82809-30	MH-SB-45-1.5-2	Solid	07/08/14 08:16	07/08/14 20:15
440-82809-31	MH-SB-46-0-0.5	Solid	07/08/14 08:21	07/08/14 20:15
440-82809-32	MH-SB-46-1.5-2	Solid	07/08/14 08:27	07/08/14 20:15
440-82809-33	MH-SB-46-1.5-2-FD	Solid	07/08/14 08:30	07/08/14 20:15
440-82809-34	MH-SB-47-0-0.5	Solid	07/08/14 08:48	07/08/14 20:15
440-82809-35	MH-SB-47-1.5-2	Solid	07/08/14 09:01	07/08/14 20:15
440-82809-36	MH-SB-48-0-0.5	Solid	07/08/14 09:03	07/08/14 20:15
440-82809-37	MH-SB-48-1.5-2	Solid	07/08/14 09:11	07/08/14 20:15
440-82809-38	MH-SB-49-0-0.5	Solid	07/08/14 09:20	07/08/14 20:15
440-82809-39	MH-SB-49-1.5-2	Solid	07/08/14 09:28	07/08/14 20:15
440-82809-40	MH-SB-62-0-0.5	Solid	07/08/14 09:41	07/08/14 20:15
440-82809-41	MH-SB-62-1.5-2	Solid	07/08/14 09:53	07/08/14 20:15
440-82809-42	MH-SB-63-0-0.5	Solid	07/08/14 10:08	07/08/14 20:15
440-82809-43	MH-SB-63-1.5-2	Solid	07/08/14 10:18	07/08/14 20:15
440-82809-44	MH-SB-64-0-0.5	Solid	07/08/14 10:28	07/08/14 20:15
440-82809-45	MH-SB-64-1.5-2	Solid	07/08/14 10:35	07/08/14 20:15
440-82809-46	MH-SB-65-0-0.5	Solid	07/08/14 10:39	07/08/14 20:15
440-82809-47	MH-SB-65-1.5-2	Solid	07/08/14 10:40	07/08/14 20:15
440-82809-48	MH-SB-35-0-0.5	Solid	07/08/14 11:57	07/08/14 20:15
440-82809-49	MH-SB-35-1.5-2	Solid	07/08/14 12:04	07/08/14 20:15
440-82809-50	MH-SB-35-0-0.5-FD	Solid	07/08/14 12:06	07/08/14 20:15
440-82809-51	MH-SB-36-0-0.5	Solid	07/08/14 12:14	07/08/14 20:15
440-82809-52	MH-SB-36-1.5-2	Solid	07/08/14 12:21	07/08/14 20:15
440-82809-53	MH-SB-37-0-0.5	Solid	07/08/14 12:33	07/08/14 20:15
440-82809-54	MH-SB-37-1.5-2	Solid	07/08/14 12:36	07/08/14 20:15
440-82809-55	MH-SB-38-0-0.5	Solid	07/08/14 12:39	07/08/14 20:15
440-82809-56	MH-SB-38-1.5-2	Solid	07/08/14 12:43	07/08/14 20:15
440-82809-57	MH-SB-39-0-0.5	Solid	07/08/14 12:52	07/08/14 20:15
440-82809-58	MH-SB-39-1.5-2	Solid	07/08/14 13:00	07/08/14 20:15

TestAmerica Irvine

Sample Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-82809-59	MH-SB-40-0-0.5	Solid	07/08/14 13:04	07/08/14 20:15
440-82809-60	MH-SB-40-1.5-2	Solid	07/08/14 13:31	07/08/14 20:15

Case Narrative

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Job ID: 440-82809-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-82809-1

Comments

This report was revised 8/4/14 to separate sample results from two different locations: sample that start with JC versus samples that start with MH.

EPA 8141-OP Pesticides and EPA 8151-Herbicide results will be reported separately. All other results are included in this report.

Receipt

The samples were received on 7/8/2014 8:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.6° C and 5.1° C.

GC/MS Semi VOA

Method(s) 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and/or precision for batch 193212 were outside control limits for selected analytes. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 194086 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 193643 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 194576 recovered above the upper control limit for 4,4-DDD, 4,4-DDE, delta BHC. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 440-194576/38), MH-SB-29-1.5-2 (440-82809-11), MH-SB-32-1.5-2 (440-82809-17), MH-SB-33-0-0.5 (440-82809-18), MH-SB-34-0-0.5 (440-82809-20), MH-SB-34-1.5-2 (440-82809-21).

Method(s) 8081A: The closing continuing calibration verification (CCV) standard associated with batch 194843 failed to meet acceptance limits on both columns used for the analysis. The associated samples were re-analyzed following a successful CCV and produced similar results, indicating that the sample matrix is adversely affecting the columns and causing the failures. (CCV 440-194843/20), MH-SB-29-0-0.5 (440-82809-10), MH-SB-30-0-0.5 (440-82809-12), MH-SB-30-1.5-2 (440-82809-13), MH-SB-31-0-0.5 (440-82809-14), MH-SB-31-1.5-2 (440-82809-15), MH-SB-32-0-0.5 (440-82809-16), MH-SB-33-1.5-2 (440-82809-19).

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 194843 recovered above the upper control limit for 4,4-DDD, Endrin aldehyde, Endrin ketone, Heptachlor, and Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVRT 440-194843/8), MH-SB-29-0-0.5 (440-82809-10), MH-SB-30-0-0.5 (440-82809-12), MH-SB-30-1.5-2 (440-82809-13), MH-SB-31-0-0.5 (440-82809-14), MH-SB-31-1.5-2 (440-82809-15), MH-SB-32-0-0.5 (440-82809-16), MH-SB-33-1.5-2 (440-82809-19).

Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) precision for Heptachlor in batch 194607 was outside control limits. Sample matrix interference is suspected.

Method(s) 8081A: The closing continuing calibration verification (CCV) standard associated with batch 194846 failed to meet acceptance limits on both columns used for the analysis. The associated samples were re-analyzed following a successful CCV and produced similar results, indicating that the sample matrix is adversely affecting the columns and causing the failures.

Case Narrative

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Job ID: 440-82809-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 195005 recovered above the upper control limit for delta BHC. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVRT 440-195005/8), MH-SB-44-0-0.5 (440-82809-27), MH-SB-44-1.5-2 (440-82809-28), MH-SB-45-0-0.5 (440-82809-29), MH-SB-45-1.5-2 (440-82809-30), MH-SB-46-1.5-2 (440-82809-32).

Method(s) 8081A: The closing continuing calibration verification (CCV) standard associated with batch 195005 failed to meet acceptance limits on both columns used for the analysis. The associated samples were re-analyzed following a successful CCV and produced similar results, indicating that the sample matrix is adversely affecting the columns and causing the failures: (CCV 440-195005/38), MH-SB-44-0-0.5 (440-82809-27), MH-SB-44-1.5-2 (440-82809-28), MH-SB-45-0-0.5 (440-82809-29), MH-SB-45-1.5-2 (440-82809-30), MH-SB-46-1.5-2 (440-82809-32).

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 195006 recovered above the upper control limit for Endrin and Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVRT 440-195006/8), MH-SB-35-0-0.5 (440-82809-48), MH-SB-35-0-0.5-FD (440-82809-50), MH-SB-35-1.5-2 (440-82809-49), MH-SB-36-0-0.5 (440-82809-51), MH-SB-46-1.5-2-FD (440-82809-33), MH-SB-47-0-0.5 (440-82809-34), MH-SB-47-1.5-2 (440-82809-35), MH-SB-48-0-0.5 (440-82809-36), MH-SB-48-1.5-2 (440-82809-37), MH-SB-49-0-0.5 (440-82809-38), MH-SB-49-1.5-2 (440-82809-39), MH-SB-62-0-0.5 (440-82809-40), MH-SB-62-1.5-2 (440-82809-41), MH-SB-63-0-0.5 (440-82809-42), MH-SB-63-1.5-2 (440-82809-43), MH-SB-64-0-0.5 (440-82809-44), MH-SB-64-1.5-2 (440-82809-45), MH-SB-65-0-0.5 (440-82809-46), MH-SB-65-1.5-2 (440-82809-47).

Method(s) 8081A: Surrogate recovery for the following sample was outside control limits: MH-SB-63-0-0.5 (440-82809-42). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8081A: The closing continuing calibration verification (CCV) standard associated with batch 195006 failed to meet acceptance limits on both columns used for the analysis. The associated samples were re-analyzed following a successful CCV and produced similar results, indicating that the sample matrix is adversely affecting the columns and causing the failures.

Method(s) 8081A: The closing continuing calibration verification (CCV) standard associated with batch 195065 failed to meet acceptance limits on both columns used for the analysis. The associated samples were re-analyzed following a successful CCV and produced similar results, indicating that the sample matrix is adversely affecting the columns and causing the failures: (CCV 440-195065/35), (CCV 440-195065/40), MH-SB-36-1.5-2 (440-82809-52), MH-SB-37-0-0.5 (440-82809-53), MH-SB-37-1.5-2 (440-82809-54), MH-SB-38-1.5-2 (440-82809-56), MH-SB-39-0-0.5 (440-82809-57), MH-SB-39-1.5-2 (440-82809-58), MH-SB-40-0-0.5 (440-82809-59), MH-SB-40-1.5-2 (440-82809-60), MH-SB-46-1.5-2 (440-82809-32).

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 195182 recovered above the upper control limit for alpha BHC and delta BHC. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MH-SB-46-1.5-2 (440-82809-32).

Method(s) 8081A: The closing continuing calibration verification (CCV) standard associated with batch 195383 failed to meet acceptance limits on both columns used for the analysis. The associated samples were re-analyzed following a successful CCV and produced similar results, indicating that the sample matrix is adversely affecting the columns and causing the failures: MH-SB-38-0-0.5 (440-82809-55).

Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 195207 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8082: No results were reported for the MS/MSD in batch 194352. The batch QC source sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit. LCS recovery was within acceptance limits for the batch. (LCS 440-194352/2-A)

Method(s) 8082: The following samples required copper clean-up to reduce matrix interferences caused by sulfur: (LCS 440-194607/5-A), (MB 440-194607/1-A), MH-SB-46-0-0.5 (440-82809-31), MH-SB-46-0-0.5 (440-82809-31 MS), MH-SB-46-0-0.5 (440-82809-31 MSD).

Method(s) 8082: Surrogate recovery for the following sample was outside control limits: MH-SB-28B-0-0.5 (440-82809-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Job ID: 440-82809-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

Method(s) 8082: The following sample contained more than one Aroclor with insufficient separation to quantify individually. The PCBs present are quantified as the predominant Aroclor: MH-SB-44-0-0.5 (440-82809-27).

Method(s) 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for batch 194607 were outside control limits for Aroclor 1260. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 194868 were outside control limits for Aroclor 1260 due to sample matrix effects. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The following samples were diluted due to the nature of the sample matrix: MH-SB-29-1.5-2 (440-82809-11), MH-SB-34-1.5-2 (440-82809-21), JC-SB-62-14.5-15 (440-82809-23), MH-SB-44-1.5-2 (440-82809-28), MH-SB-45-1.5-2 (440-82809-30), MH-SB-46-1.5-2 (440-82809-32), MH-SB-46-1.5-2-FD (440-82809-33), MH-SB-37-1.5-2 (440-82809-54), MH-SB-39-1.5-2 (440-82809-58). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and/or precision for batch 193361 were outside control limits for selected metals. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-27A-0-0.5

Lab Sample ID: 440-82809-1

Date Collected: 07/08/14 07:38

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:11	1
Aroclor 1221	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:11	1
Aroclor 1232	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:11	1
Aroclor 1242	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:11	1
Aroclor 1248	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:11	1
Aroclor 1254	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:11	1
Aroclor 1260	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	69		45 - 120	07/16/14 16:56	07/17/14 19:11	1

Client Sample ID: MH-SB-27A-1.5-2

Lab Sample ID: 440-82809-2

Date Collected: 07/08/14 07:43

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Aroclor 1221	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Aroclor 1232	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Aroclor 1242	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Aroclor 1248	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Aroclor 1254	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Aroclor 1260	ND		49	ug/Kg		07/16/14 16:56	07/17/14 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	55		45 - 120	07/16/14 16:56	07/17/14 19:34	1

Client Sample ID: MH-SB-27B-0-0.5

Lab Sample ID: 440-82809-3

Date Collected: 07/08/14 07:48

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/16/14 16:56	07/17/14 19:57	1
Aroclor 1221	ND		50	ug/Kg		07/16/14 16:56	07/17/14 19:57	1
Aroclor 1232	ND		50	ug/Kg		07/16/14 16:56	07/17/14 19:57	1
Aroclor 1242	ND		50	ug/Kg		07/16/14 16:56	07/17/14 19:57	1
Aroclor 1248	ND		50	ug/Kg		07/16/14 16:56	07/17/14 19:57	1
Aroclor 1254	ND		50	ug/Kg		07/16/14 16:56	07/17/14 19:57	1
Aroclor 1260	ND		50	ug/Kg		07/16/14 16:56	07/17/14 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	81		45 - 120	07/16/14 16:56	07/17/14 19:57	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-27B-1.5-2

Lab Sample ID: 440-82809-4

Date Collected: 07/08/14 07:55

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:20	1
Aroclor 1221	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:20	1
Aroclor 1232	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:20	1
Aroclor 1242	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:20	1
Aroclor 1248	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:20	1
Aroclor 1254	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:20	1
Aroclor 1260	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	69		45 - 120	07/16/14 16:56	07/17/14 20:20	1

Client Sample ID: MH-SB-28A-0-0.5

Lab Sample ID: 440-82809-5

Date Collected: 07/08/14 08:03

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:43	1
Aroclor 1221	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:43	1
Aroclor 1232	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:43	1
Aroclor 1242	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:43	1
Aroclor 1248	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:43	1
Aroclor 1254	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:43	1
Aroclor 1260	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	53		45 - 120	07/16/14 16:56	07/17/14 20:43	1

Client Sample ID: MH-SB-28A-1.5-2

Lab Sample ID: 440-82809-6

Date Collected: 07/08/14 08:08

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:06	1
Aroclor 1221	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:06	1
Aroclor 1232	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:06	1
Aroclor 1242	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:06	1
Aroclor 1248	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:06	1
Aroclor 1254	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:06	1
Aroclor 1260	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	55		45 - 120	07/16/14 16:56	07/17/14 21:06	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-28B-0-0.5

Lab Sample ID: 440-82809-7

Date Collected: 07/08/14 08:11

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:28	1
Aroclor 1221	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:28	1
Aroclor 1232	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:28	1
Aroclor 1242	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:28	1
Aroclor 1248	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:28	1
Aroclor 1254	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:28	1
Aroclor 1260	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	40	X	45 - 120	07/16/14 16:56	07/17/14 21:28	1

Client Sample ID: MH-SB-28B-1.5-2

Lab Sample ID: 440-82809-8

Date Collected: 07/08/14 08:27

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:51	1
Aroclor 1221	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:51	1
Aroclor 1232	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:51	1
Aroclor 1242	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:51	1
Aroclor 1248	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:51	1
Aroclor 1254	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:51	1
Aroclor 1260	ND		50	ug/Kg		07/16/14 16:56	07/17/14 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	52		45 - 120	07/16/14 16:56	07/17/14 21:51	1

Client Sample ID: MH-SB-28B-0-0.5-FD

Lab Sample ID: 440-82809-9

Date Collected: 07/08/14 08:13

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/16/14 14:37	07/17/14 03:09	1
Aroclor 1221	ND		50	ug/Kg		07/16/14 14:37	07/17/14 03:09	1
Aroclor 1232	ND		50	ug/Kg		07/16/14 14:37	07/17/14 03:09	1
Aroclor 1242	ND		50	ug/Kg		07/16/14 14:37	07/17/14 03:09	1
Aroclor 1248	ND		50	ug/Kg		07/16/14 14:37	07/17/14 03:09	1
Aroclor 1254	ND		50	ug/Kg		07/16/14 14:37	07/17/14 03:09	1
Aroclor 1260	ND		50	ug/Kg		07/16/14 14:37	07/17/14 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	85		45 - 120	07/16/14 14:37	07/17/14 03:09	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-29-0-0.5

Lab Sample ID: 440-82809-10

Date Collected: 07/08/14 08:44

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
4,4'-DDE	5.6		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
4,4'-DDT	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
Aldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
alpha-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
beta-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
Chlordane (technical)	110		50	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
delta-BHC	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
Dieldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
Endosulfan I	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
Endosulfan II	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
Endrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
Endrin aldehyde	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
Endrin ketone	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
Heptachlor	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
Methoxychlor	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:17	1
Toxaphene	ND		200	ug/Kg		07/16/14 16:56	07/18/14 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	57		35 - 115	07/16/14 16:56	07/18/14 15:17	1
DCB Decachlorobiphenyl (Surr)	83		45 - 120	07/16/14 16:56	07/18/14 15:17	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/16/14 16:56	07/17/14 16:55	1
Aroclor 1221	ND		50	ug/Kg		07/16/14 16:56	07/17/14 16:55	1
Aroclor 1232	ND		50	ug/Kg		07/16/14 16:56	07/17/14 16:55	1
Aroclor 1242	ND		50	ug/Kg		07/16/14 16:56	07/17/14 16:55	1
Aroclor 1248	ND		50	ug/Kg		07/16/14 16:56	07/17/14 16:55	1
Aroclor 1254	140		50	ug/Kg		07/16/14 16:56	07/17/14 16:55	1
Aroclor 1260	ND		50	ug/Kg		07/16/14 16:56	07/17/14 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	78		45 - 120	07/16/14 16:56	07/17/14 16:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.5		2.0	mg/Kg		07/15/14 08:54	07/15/14 19:44	5

Client Sample ID: MH-SB-29-1.5-2

Lab Sample ID: 440-82809-11

Date Collected: 07/08/14 08:47

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
4,4'-DDT	28		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
Aldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-29-1.5-2

Lab Sample ID: 440-82809-11

Date Collected: 07/08/14 08:47

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
beta-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
Chlordane (technical)	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
delta-BHC	ND		9.9	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
Dieldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
Endosulfan I	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
Endosulfan II	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
Endrin	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
Endrin aldehyde	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
Endrin ketone	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
Heptachlor	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
Methoxychlor	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 17:38	1
Toxaphene	ND		200	ug/Kg		07/16/14 16:56	07/17/14 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	54		35 - 115	07/16/14 16:56	07/17/14 17:38	1
DCB Decachlorobiphenyl (Surr)	70		45 - 120	07/16/14 16:56	07/17/14 17:38	1

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	100		25	ug/Kg		07/16/14 16:56	07/18/14 15:31	5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:18	1
Aroclor 1221	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:18	1
Aroclor 1232	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:18	1
Aroclor 1242	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:18	1
Aroclor 1248	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:18	1
Aroclor 1254	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:18	1
Aroclor 1260	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	69		45 - 120	07/16/14 16:56	07/17/14 17:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.9	mg/Kg		07/15/14 08:54	07/15/14 20:16	10

Client Sample ID: MH-SB-30-0-0.5

Lab Sample ID: 440-82809-12

Date Collected: 07/08/14 08:34

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
4,4'-DDE	5.6		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
4,4'-DDT	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-30-0-0.5

Lab Sample ID: 440-82809-12

Date Collected: 07/08/14 08:34

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
alpha-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
beta-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
Chlordane (technical)	ND		50	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
delta-BHC	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
Dieldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
Endosulfan I	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
Endosulfan II	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
Endrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
Endrin aldehyde	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
Endrin ketone	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
Heptachlor	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
Methoxychlor	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
Toxaphene	ND		200	ug/Kg		07/16/14 16:56	07/18/14 15:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	57		35 - 115			07/16/14 16:56	07/18/14 15:45	1
DCB Decachlorobiphenyl (Surr)	88		45 - 120			07/16/14 16:56	07/18/14 15:45	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:40	1
Aroclor 1221	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:40	1
Aroclor 1232	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:40	1
Aroclor 1242	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:40	1
Aroclor 1248	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:40	1
Aroclor 1254	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:40	1
Aroclor 1260	ND		50	ug/Kg		07/16/14 16:56	07/17/14 17:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	67		45 - 120			07/16/14 16:56	07/17/14 17:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.7		2.0	mg/Kg		07/15/14 08:54	07/15/14 19:47	5

Client Sample ID: MH-SB-30-1.5-2

Lab Sample ID: 440-82809-13

Date Collected: 07/08/14 08:38

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
4,4'-DDE	18		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
4,4'-DDT	5.7		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
Aldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
alpha-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
beta-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-30-1.5-2

Lab Sample ID: 440-82809-13

Date Collected: 07/08/14 08:38

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		50	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
delta-BHC	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
Dieldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
Endosulfan I	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
Endosulfan II	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
Endrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
Endrin aldehyde	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
Endrin ketone	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
Heptachlor	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
Methoxychlor	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 15:59	1
Toxaphene	ND		200	ug/Kg		07/16/14 16:56	07/18/14 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	46		35 - 115	07/16/14 16:56	07/18/14 15:59	1
DCB Decachlorobiphenyl (Surr)	65		45 - 120	07/16/14 16:56	07/18/14 15:59	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:03	1
Aroclor 1221	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:03	1
Aroclor 1232	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:03	1
Aroclor 1242	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:03	1
Aroclor 1248	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:03	1
Aroclor 1254	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:03	1
Aroclor 1260	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	66		45 - 120	07/16/14 16:56	07/17/14 18:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.6		2.0	mg/Kg		07/15/14 08:54	07/15/14 19:49	5

Client Sample ID: MH-SB-31-0-0.5

Lab Sample ID: 440-82809-14

Date Collected: 07/08/14 08:55

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
4,4'-DDE	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
4,4'-DDT	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
Aldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
alpha-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
beta-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
Chlordane (technical)	ND		50	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
delta-BHC	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
Dieldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-31-0-0.5

Lab Sample ID: 440-82809-14

Date Collected: 07/08/14 08:55

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
Endosulfan II	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
Endrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
Endrin aldehyde	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
Endrin ketone	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
Heptachlor	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
Methoxychlor	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
Toxaphene	ND		200	ug/Kg		07/16/14 16:56	07/18/14 16:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		35 - 115			07/16/14 16:56	07/18/14 16:26	1
DCB Decachlorobiphenyl (Surr)	90		45 - 120			07/16/14 16:56	07/18/14 16:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Arsenic	ND		3.0	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Barium	110		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Beryllium	ND		0.50	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Cadmium	1.4		0.50	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Chromium	43		1.0	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Cobalt	12		1.0	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Copper	20		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Lead	4.0		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Molybdenum	ND		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Nickel	42		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Selenium	ND		3.0	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Thallium	ND		10	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Vanadium	46		1.0	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Zinc	80		5.0	mg/Kg		07/11/14 08:54	07/11/14 17:32	5
Silver	ND		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:32	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.020	mg/Kg		07/14/14 10:50	07/14/14 15:33	1

Client Sample ID: MH-SB-31-1.5-2

Lab Sample ID: 440-82809-15

Date Collected: 07/08/14 09:00

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
4,4'-DDE	7.2		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
4,4'-DDT	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Aldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
alpha-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-31-1.5-2

Lab Sample ID: 440-82809-15

Date Collected: 07/08/14 09:00

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Chlordane (technical)	ND		50	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
delta-BHC	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Dieldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Endosulfan I	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Endosulfan II	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Endrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Endrin aldehyde	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Endrin ketone	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Heptachlor	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Methoxychlor	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Toxaphene	ND		200	ug/Kg		07/16/14 16:56	07/18/14 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		35 - 115			07/16/14 16:56	07/18/14 16:40	1
DCB Decachlorobiphenyl (Surr)	93		45 - 120			07/16/14 16:56	07/18/14 16:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Arsenic	ND		3.0	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Barium	73		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Beryllium	ND		0.49	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Cadmium	1.2		0.49	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Chromium	44		0.99	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Cobalt	15		0.99	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Copper	18		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Lead	2.7		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Molybdenum	ND		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Nickel	47		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Selenium	ND		3.0	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Thallium	ND		9.9	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Vanadium	46		0.99	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Zinc	27		4.9	mg/Kg		07/11/14 08:54	07/11/14 17:34	5
Silver	ND		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:34	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.020	mg/Kg		07/14/14 10:50	07/14/14 15:25	1

Client Sample ID: MH-SB-32-0-0.5

Lab Sample ID: 440-82809-16

Date Collected: 07/08/14 09:09

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-32-0-0.5

Lab Sample ID: 440-82809-16

Date Collected: 07/08/14 09:09

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	5.3		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
4,4'-DDT	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
Aldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
alpha-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
beta-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
Chlordane (technical)	ND		50	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
delta-BHC	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
Dieldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
Endosulfan I	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
Endosulfan II	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
Endrin	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
Endrin aldehyde	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
Endrin ketone	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
Heptachlor	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
Methoxychlor	ND		5.0	ug/Kg		07/16/14 16:56	07/18/14 16:12	1
Toxaphene	ND		200	ug/Kg		07/16/14 16:56	07/18/14 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56		35 - 115	07/16/14 16:56	07/18/14 16:12	1
DCB Decachlorobiphenyl (Surr)	79		45 - 120	07/16/14 16:56	07/18/14 16:12	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:26	1
Aroclor 1221	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:26	1
Aroclor 1232	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:26	1
Aroclor 1242	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:26	1
Aroclor 1248	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:26	1
Aroclor 1254	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:26	1
Aroclor 1260	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	66		45 - 120	07/16/14 16:56	07/17/14 18:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.2		2.0	mg/Kg		07/15/14 08:54	07/15/14 19:50	5

Client Sample ID: MH-SB-32-1.5-2

Lab Sample ID: 440-82809-17

Date Collected: 07/08/14 09:16

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
4,4'-DDE	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
4,4'-DDT	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Aldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-32-1.5-2

Lab Sample ID: 440-82809-17

Date Collected: 07/08/14 09:16

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
beta-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Chlordane (technical)	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
delta-BHC	ND		9.9	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Dieldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Endosulfan I	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Endosulfan II	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Endrin	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Endrin aldehyde	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Endrin ketone	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Heptachlor	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Methoxychlor	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Toxaphene	ND		200	ug/Kg		07/16/14 16:56	07/17/14 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	50		35 - 115			07/16/14 16:56	07/17/14 18:36	1
DCB Decachlorobiphenyl (Surr)	65		45 - 120			07/16/14 16:56	07/17/14 18:36	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:49	1
Aroclor 1221	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:49	1
Aroclor 1232	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:49	1
Aroclor 1242	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:49	1
Aroclor 1248	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:49	1
Aroclor 1254	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:49	1
Aroclor 1260	ND		50	ug/Kg		07/16/14 16:56	07/17/14 18:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	70		45 - 120			07/16/14 16:56	07/17/14 18:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.2		2.0	mg/Kg		07/15/14 08:54	07/15/14 20:18	5

Client Sample ID: MH-SB-33-0-0.5

Lab Sample ID: 440-82809-18

Date Collected: 07/08/14 09:46

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
4,4'-DDE	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
4,4'-DDT	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Aldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
alpha-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
beta-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Chlordane (technical)	ND		50	ug/Kg		07/16/14 16:56	07/17/14 19:34	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-33-0-0.5

Lab Sample ID: 440-82809-18

Date Collected: 07/08/14 09:46

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		9.9	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Dieldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Endosulfan I	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Endosulfan II	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Endrin	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Endrin aldehyde	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Endrin ketone	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Heptachlor	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Methoxychlor	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 19:34	1
Toxaphene	ND		200	ug/Kg		07/16/14 16:56	07/17/14 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		35 - 115	07/16/14 16:56	07/17/14 19:34	1
DCB Decachlorobiphenyl (Surr)	72		45 - 120	07/16/14 16:56	07/17/14 19:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.8	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Arsenic	3.6		2.9	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Barium	96		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Beryllium	ND		0.49	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Cadmium	1.5		0.49	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Chromium	54		0.98	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Cobalt	17		0.98	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Copper	24		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Lead	2.6		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Molybdenum	ND		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Nickel	57		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Selenium	ND		2.9	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Thallium	ND		9.8	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Vanadium	58		0.98	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Zinc	41		4.9	mg/Kg		07/11/14 08:54	07/11/14 17:36	5
Silver	ND		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:36	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.020	mg/Kg		07/14/14 10:50	07/14/14 15:23	1

Client Sample ID: MH-SB-33-1.5-2

Lab Sample ID: 440-82809-19

Date Collected: 07/08/14 09:48

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
4,4'-DDE	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
4,4'-DDT	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-33-1.5-2

Lab Sample ID: 440-82809-19

Date Collected: 07/08/14 09:48

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
alpha-BHC	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
beta-BHC	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
Chlordane (technical)	ND		49	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
delta-BHC	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
Dieldrin	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
Endosulfan I	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
Endosulfan II	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
Endrin	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
Endrin aldehyde	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
Endrin ketone	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
Heptachlor	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
Methoxychlor	ND		4.9	ug/Kg		07/16/14 16:56	07/18/14 16:54	1
Toxaphene	ND		200	ug/Kg		07/16/14 16:56	07/18/14 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		35 - 115	07/16/14 16:56	07/18/14 16:54	1
DCB Decachlorobiphenyl (Surr)	87		45 - 120	07/16/14 16:56	07/18/14 16:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Arsenic	3.5		3.0	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Barium	160		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Beryllium	ND		0.50	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Cadmium	1.8		0.50	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Chromium	51		0.99	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Cobalt	13		0.99	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Copper	22		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Lead	4.6		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Molybdenum	ND		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Nickel	48		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Selenium	ND		3.0	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Thallium	ND		9.9	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Vanadium	68		0.99	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Zinc	57		5.0	mg/Kg		07/11/14 08:54	07/11/14 17:42	5
Silver	ND		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:42	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.020	mg/Kg		07/14/14 10:50	07/14/14 15:20	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-34-0-0.5

Lab Sample ID: 440-82809-20

Date Collected: 07/08/14 10:02

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
4,4'-DDE	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
4,4'-DDT	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
Aldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
alpha-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
beta-BHC	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
Chlordane (technical)	ND		50	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
delta-BHC	ND		9.9	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
Dieldrin	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
Endosulfan I	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
Endosulfan II	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
Endrin	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
Endrin aldehyde	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
Endrin ketone	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
Heptachlor	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
Methoxychlor	ND		5.0	ug/Kg		07/16/14 16:56	07/17/14 20:03	1
Toxaphene	ND		200	ug/Kg		07/16/14 16:56	07/17/14 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	55		35 - 115	07/16/14 16:56	07/17/14 20:03	1
DCB Decachlorobiphenyl (Surr)	64		45 - 120	07/16/14 16:56	07/17/14 20:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.8	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Arsenic	6.3		2.9	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Barium	96		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Beryllium	ND		0.49	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Cadmium	3.1		0.49	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Chromium	28		0.98	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Cobalt	7.4		0.98	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Copper	19		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Lead	5.0		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Molybdenum	7.8		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Nickel	36		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Selenium	ND		2.9	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Thallium	ND		9.8	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Vanadium	58		0.98	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Zinc	60		4.9	mg/Kg		07/11/14 08:54	07/11/14 17:44	5
Silver	ND		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:44	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.020	mg/Kg		07/15/14 08:22	07/16/14 11:48	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-34-1.5-2

Lab Sample ID: 440-82809-21

Date Collected: 07/08/14 10:04

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
4,4'-DDE	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
4,4'-DDT	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
Aldrin	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
alpha-BHC	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
beta-BHC	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
Chlordane (technical)	ND		49	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
delta-BHC	ND		9.8	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
Dieldrin	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
Endosulfan I	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
Endosulfan II	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
Endosulfan sulfate	ND		9.8	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
Endrin	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
Endrin aldehyde	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
Endrin ketone	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
Heptachlor	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
Methoxychlor	ND		4.9	ug/Kg		07/16/14 16:56	07/17/14 20:18	1
Toxaphene	ND		200	ug/Kg		07/16/14 16:56	07/17/14 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		35 - 115	07/16/14 16:56	07/17/14 20:18	1
DCB Decachlorobiphenyl (Surr)	77		45 - 120	07/16/14 16:56	07/17/14 20:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		20	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Arsenic	ND		6.0	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Barium	84		3.0	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Beryllium	ND		1.0	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Cadmium	1.5		1.0	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Chromium	57		2.0	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Cobalt	19		2.0	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Copper	25		4.0	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Lead	ND		4.0	mg/Kg		07/11/14 08:54	07/16/14 12:39	10
Molybdenum	ND		4.0	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Nickel	70		4.0	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Selenium	ND		6.0	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Thallium	ND		20	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Vanadium	66		2.0	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Zinc	51		10	mg/Kg		07/11/14 08:54	07/14/14 11:58	10
Silver	ND		3.0	mg/Kg		07/11/14 08:54	07/14/14 11:58	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	mg/Kg		07/15/14 08:22	07/16/14 11:50	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-44-0-0.5

Lab Sample ID: 440-82809-27

Date Collected: 07/08/14 07:53

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
4,4'-DDE	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
4,4'-DDT	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
Aldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
alpha-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
beta-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
Chlordane (technical)	ND		50	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
Dieldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
Endosulfan I	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
Endosulfan II	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
Endrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
Endrin aldehyde	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
Endrin ketone	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
Heptachlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
Methoxychlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:07	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		35 - 115	07/17/14 12:29	07/19/14 12:07	1
DCB Decachlorobiphenyl (Surr)	92		45 - 120	07/17/14 12:29	07/19/14 12:07	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/17/14 12:29	07/18/14 03:09	1
Aroclor 1221	ND		50	ug/Kg		07/17/14 12:29	07/18/14 03:09	1
Aroclor 1232	ND		50	ug/Kg		07/17/14 12:29	07/18/14 03:09	1
Aroclor 1242	ND		50	ug/Kg		07/17/14 12:29	07/18/14 03:09	1
Aroclor 1248	ND		50	ug/Kg		07/17/14 12:29	07/18/14 03:09	1
Aroclor 1254	170		50	ug/Kg		07/17/14 12:29	07/18/14 03:09	1
Aroclor 1260	86		50	ug/Kg		07/17/14 12:29	07/18/14 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	75		45 - 120	07/17/14 12:29	07/18/14 03:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	29		2.0	mg/Kg		07/15/14 08:54	07/15/14 19:53	5

Client Sample ID: MH-SB-44-1.5-2

Lab Sample ID: 440-82809-28

Date Collected: 07/08/14 08:04

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
4,4'-DDE	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
4,4'-DDT	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-44-1.5-2

Lab Sample ID: 440-82809-28

Date Collected: 07/08/14 08:04

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
alpha-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
beta-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
Chlordane (technical)	ND		50	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
Dieldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
Endosulfan I	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
Endosulfan II	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
Endrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
Endrin aldehyde	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
Endrin ketone	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
Heptachlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
Methoxychlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 12:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56		35 - 115			07/17/14 12:29	07/19/14 12:21	1
DCB Decachlorobiphenyl (Surr)	79		45 - 120			07/17/14 12:29	07/19/14 12:21	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/17/14 12:29	07/18/14 03:32	1
Aroclor 1221	ND		50	ug/Kg		07/17/14 12:29	07/18/14 03:32	1
Aroclor 1232	ND		50	ug/Kg		07/17/14 12:29	07/18/14 03:32	1
Aroclor 1242	ND		50	ug/Kg		07/17/14 12:29	07/18/14 03:32	1
Aroclor 1248	ND		50	ug/Kg		07/17/14 12:29	07/18/14 03:32	1
Aroclor 1254	ND		50	ug/Kg		07/17/14 12:29	07/18/14 03:32	1
Aroclor 1260	ND		50	ug/Kg		07/17/14 12:29	07/18/14 03:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	69		45 - 120			07/17/14 12:29	07/18/14 03:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		4.0	mg/Kg		07/15/14 08:54	07/15/14 20:21	10

Client Sample ID: MH-SB-45-0-0.5

Lab Sample ID: 440-82809-29

Date Collected: 07/08/14 08:07

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
4,4'-DDE	5.1		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
4,4'-DDT	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
Aldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
alpha-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
beta-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-45-0-0.5

Lab Sample ID: 440-82809-29

Date Collected: 07/08/14 08:07

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		50	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
Dieldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
Endosulfan I	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
Endosulfan II	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
Endrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
Endrin aldehyde	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
Endrin ketone	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
Heptachlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
Methoxychlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 12:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	53		35 - 115			07/17/14 12:29	07/19/14 12:50	1
DCB Decachlorobiphenyl (Surr)	70		45 - 120			07/17/14 12:29	07/19/14 12:50	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/17/14 12:29	07/18/14 04:18	1
Aroclor 1221	ND		50	ug/Kg		07/17/14 12:29	07/18/14 04:18	1
Aroclor 1232	ND		50	ug/Kg		07/17/14 12:29	07/18/14 04:18	1
Aroclor 1242	ND		50	ug/Kg		07/17/14 12:29	07/18/14 04:18	1
Aroclor 1248	ND		50	ug/Kg		07/17/14 12:29	07/18/14 04:18	1
Aroclor 1254	94		50	ug/Kg		07/17/14 12:29	07/18/14 04:18	1
Aroclor 1260	ND		50	ug/Kg		07/17/14 12:29	07/18/14 04:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	71		45 - 120			07/17/14 12:29	07/18/14 04:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	36		2.0	mg/Kg		07/15/14 08:54	07/15/14 19:59	5

Client Sample ID: MH-SB-45-1.5-2

Lab Sample ID: 440-82809-30

Date Collected: 07/08/14 08:16

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
4,4'-DDE	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
4,4'-DDT	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
Aldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
alpha-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
beta-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
Chlordane (technical)	ND		50	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
Dieldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-45-1.5-2

Lab Sample ID: 440-82809-30

Date Collected: 07/08/14 08:16

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
Endosulfan II	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
Endrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
Endrin aldehyde	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
Endrin ketone	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
Heptachlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
Methoxychlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 13:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	39		35 - 115			07/17/14 12:29	07/19/14 13:05	1
DCB Decachlorobiphenyl (Surr)	55		45 - 120			07/17/14 12:29	07/19/14 13:05	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/17/14 12:29	07/18/14 04:40	1
Aroclor 1221	ND		50	ug/Kg		07/17/14 12:29	07/18/14 04:40	1
Aroclor 1232	ND		50	ug/Kg		07/17/14 12:29	07/18/14 04:40	1
Aroclor 1242	ND		50	ug/Kg		07/17/14 12:29	07/18/14 04:40	1
Aroclor 1248	ND		50	ug/Kg		07/17/14 12:29	07/18/14 04:40	1
Aroclor 1254	ND		50	ug/Kg		07/17/14 12:29	07/18/14 04:40	1
Aroclor 1260	ND		50	ug/Kg		07/17/14 12:29	07/18/14 04:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	54		45 - 120			07/17/14 12:29	07/18/14 04:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		4.0	mg/Kg		07/15/14 08:54	07/15/14 20:23	10

Client Sample ID: MH-SB-46-0-0.5

Lab Sample ID: 440-82809-31

Date Collected: 07/08/14 08:21

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
4,4'-DDE	11		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
4,4'-DDT	5.0		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
Aldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
alpha-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
beta-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
Chlordane (technical)	ND		50	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
Dieldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
Endosulfan I	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
Endosulfan II	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/19/14 00:16	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-46-0-0.5

Lab Sample ID: 440-82809-31

Date Collected: 07/08/14 08:21

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
Endrin aldehyde	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
Endrin ketone	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
Heptachlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
Methoxychlor	ND		5.0	ug/Kg		07/17/14 12:29	07/19/14 00:16	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/19/14 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	57		35 - 115	07/17/14 12:29	07/19/14 00:16	1
DCB Decachlorobiphenyl (Surr)	69		45 - 120	07/17/14 12:29	07/19/14 00:16	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/17/14 12:29	07/18/14 05:03	1
Aroclor 1221	ND		50	ug/Kg		07/17/14 12:29	07/18/14 05:03	1
Aroclor 1232	ND		50	ug/Kg		07/17/14 12:29	07/18/14 05:03	1
Aroclor 1242	ND		50	ug/Kg		07/17/14 12:29	07/18/14 05:03	1
Aroclor 1248	ND		50	ug/Kg		07/17/14 12:29	07/18/14 05:03	1
Aroclor 1254	85		50	ug/Kg		07/17/14 12:29	07/18/14 05:03	1
Aroclor 1260	ND		50	ug/Kg		07/17/14 12:29	07/18/14 05:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	63		45 - 120	07/17/14 12:29	07/18/14 05:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.1		4.0	mg/Kg		07/15/14 08:54	07/15/14 19:39	10

Client Sample ID: MH-SB-46-1.5-2

Lab Sample ID: 440-82809-32

Date Collected: 07/08/14 08:27

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
4,4'-DDE	5.4		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
4,4'-DDT	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
Aldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
alpha-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
beta-BHC	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
Chlordane (technical)	ND		50	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
delta-BHC	ND		9.9	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
Dieldrin	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
Endosulfan I	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
Endosulfan II	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
Endrin	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
Endrin aldehyde	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
Endrin ketone	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-46-1.5-2

Lab Sample ID: 440-82809-32

Date Collected: 07/08/14 08:27

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
Heptachlor	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
Methoxychlor	ND		5.0	ug/Kg		07/17/14 12:29	07/21/14 15:41	1
Toxaphene	ND		200	ug/Kg		07/17/14 12:29	07/21/14 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	42		35 - 115	07/17/14 12:29	07/21/14 15:41	1
DCB Decachlorobiphenyl (Surr)	49		45 - 120	07/17/14 12:29	07/21/14 15:41	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/17/14 12:29	07/18/14 05:26	1
Aroclor 1221	ND		50	ug/Kg		07/17/14 12:29	07/18/14 05:26	1
Aroclor 1232	ND		50	ug/Kg		07/17/14 12:29	07/18/14 05:26	1
Aroclor 1242	ND		50	ug/Kg		07/17/14 12:29	07/18/14 05:26	1
Aroclor 1248	ND		50	ug/Kg		07/17/14 12:29	07/18/14 05:26	1
Aroclor 1254	ND		50	ug/Kg		07/17/14 12:29	07/18/14 05:26	1
Aroclor 1260	ND		50	ug/Kg		07/17/14 12:29	07/18/14 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	45		45 - 120	07/17/14 12:29	07/18/14 05:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		4.0	mg/Kg		07/15/14 08:54	07/15/14 20:24	10

Client Sample ID: MH-SB-46-1.5-2-FD

Lab Sample ID: 440-82809-33

Date Collected: 07/08/14 08:30

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
4,4'-DDE	8.8		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
4,4'-DDT	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
Aldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
alpha-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
beta-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
Chlordane (technical)	ND		49	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
delta-BHC	ND		9.8	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
Dieldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
Endosulfan I	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
Endosulfan II	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
Endosulfan sulfate	ND		9.8	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
Endrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
Endrin aldehyde	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
Endrin ketone	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
Heptachlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-46-1.5-2-FD

Lab Sample ID: 440-82809-33

Date Collected: 07/08/14 08:30

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 10:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		35 - 115			07/18/14 07:28	07/19/14 10:38	1
DCB Decachlorobiphenyl (Surr)	65		45 - 120			07/18/14 07:28	07/19/14 10:38	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	ug/Kg		07/18/14 07:28	07/18/14 19:32	1
Aroclor 1221	ND		49	ug/Kg		07/18/14 07:28	07/18/14 19:32	1
Aroclor 1232	ND		49	ug/Kg		07/18/14 07:28	07/18/14 19:32	1
Aroclor 1242	ND		49	ug/Kg		07/18/14 07:28	07/18/14 19:32	1
Aroclor 1248	ND		49	ug/Kg		07/18/14 07:28	07/18/14 19:32	1
Aroclor 1254	ND		49	ug/Kg		07/18/14 07:28	07/18/14 19:32	1
Aroclor 1260	ND		49	ug/Kg		07/18/14 07:28	07/18/14 19:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	70		45 - 120			07/18/14 07:28	07/18/14 19:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		4.0	mg/Kg		07/15/14 08:54	07/15/14 20:26	10

Client Sample ID: MH-SB-47-0-0.5

Lab Sample ID: 440-82809-34

Date Collected: 07/08/14 08:48

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
4,4'-DDE	13		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
4,4'-DDT	5.1		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
Aldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
alpha-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
Chlordane (technical)	ND		50	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
Dieldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
Endosulfan I	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
Endrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 10:52	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 10:52	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-47-0-0.5

Lab Sample ID: 440-82809-34

Date Collected: 07/08/14 08:48

Matrix: Solid

Date Received: 07/08/14 20:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	51		35 - 115	07/18/14 07:28	07/19/14 10:52	1
DCB Decachlorobiphenyl (Surr)	57		45 - 120	07/18/14 07:28	07/19/14 10:52	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 07:28	07/18/14 20:01	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 07:28	07/18/14 20:01	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 07:28	07/18/14 20:01	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 07:28	07/18/14 20:01	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 07:28	07/18/14 20:01	1
Aroclor 1254	ND		50	ug/Kg		07/18/14 07:28	07/18/14 20:01	1
Aroclor 1260	ND		50	ug/Kg		07/18/14 07:28	07/18/14 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	64		45 - 120	07/18/14 07:28	07/18/14 20:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.7		4.0	mg/Kg		07/15/14 08:54	07/15/14 20:28	10

Client Sample ID: MH-SB-47-1.5-2

Lab Sample ID: 440-82809-35

Date Collected: 07/08/14 09:01

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
4,4'-DDE	35		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
4,4'-DDT	9.8		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
Aldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
alpha-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
beta-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
Chlordane (technical)	ND		49	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
Dieldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
Endosulfan I	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
Endosulfan II	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
Endrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
Endrin aldehyde	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
Endrin ketone	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
Heptachlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
Methoxychlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:06	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 11:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	51		35 - 115	07/18/14 07:28	07/19/14 11:06	1
DCB Decachlorobiphenyl (Surr)	61		45 - 120	07/18/14 07:28	07/19/14 11:06	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-47-1.5-2

Lab Sample ID: 440-82809-35

Date Collected: 07/08/14 09:01

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:29	1
Aroclor 1221	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:29	1
Aroclor 1232	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:29	1
Aroclor 1242	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:29	1
Aroclor 1248	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:29	1
Aroclor 1254	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:29	1
Aroclor 1260	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	97		45 - 120	07/18/14 07:28	07/19/14 15:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.5		4.0	mg/Kg		07/15/14 08:54	07/15/14 20:32	10

Client Sample ID: MH-SB-48-0-0.5

Lab Sample ID: 440-82809-36

Date Collected: 07/08/14 09:03

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
4,4'-DDE	9.1		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
4,4'-DDT	9.1		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
Aldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
alpha-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
beta-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
Chlordane (technical)	ND		49	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
delta-BHC	ND		9.8	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
Dieldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
Endosulfan I	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
Endosulfan II	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
Endosulfan sulfate	ND		9.8	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
Endrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
Endrin aldehyde	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
Endrin ketone	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
Heptachlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
Methoxychlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:19	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	49		35 - 115	07/18/14 07:28	07/19/14 11:19	1
DCB Decachlorobiphenyl (Surr)	62		45 - 120	07/18/14 07:28	07/19/14 11:19	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:57	1
Aroclor 1221	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:57	1
Aroclor 1232	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:57	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-48-0-0.5

Lab Sample ID: 440-82809-36

Date Collected: 07/08/14 09:03

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1242	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:57	1
Aroclor 1248	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:57	1
Aroclor 1254	83		49	ug/Kg		07/18/14 07:28	07/19/14 15:57	1
Aroclor 1260	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	76		45 - 120			07/18/14 07:28	07/19/14 15:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		4.0	mg/Kg		07/15/14 08:54	07/15/14 20:34	10

Client Sample ID: MH-SB-48-1.5-2

Lab Sample ID: 440-82809-37

Date Collected: 07/08/14 09:11

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
4,4'-DDE	11		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
4,4'-DDT	7.3		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Aldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
alpha-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Chlordane (technical)	ND		50	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Dieldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Endosulfan I	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Endrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 11:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	45		35 - 115			07/18/14 07:28	07/19/14 11:33	1
DCB Decachlorobiphenyl (Surr)	59		45 - 120			07/18/14 07:28	07/19/14 11:33	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 07:28	07/18/14 21:26	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 07:28	07/18/14 21:26	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 07:28	07/18/14 21:26	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 07:28	07/18/14 21:26	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 07:28	07/18/14 21:26	1
Aroclor 1254	ND		50	ug/Kg		07/18/14 07:28	07/18/14 21:26	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-48-1.5-2

Lab Sample ID: 440-82809-37

Date Collected: 07/08/14 09:11

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	ND		50	ug/Kg		07/18/14 07:28	07/18/14 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	67		45 - 120	07/18/14 07:28	07/18/14 21:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10		4.0	mg/Kg		07/15/14 08:54	07/15/14 20:36	10

Client Sample ID: MH-SB-49-0-0.5

Lab Sample ID: 440-82809-38

Date Collected: 07/08/14 09:20

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
4,4'-DDE	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
4,4'-DDT	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
Aldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
alpha-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
beta-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
Chlordane (technical)	ND		49	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
delta-BHC	ND		9.8	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
Dieldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
Endosulfan I	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
Endosulfan II	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
Endosulfan sulfate	ND		9.8	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
Endrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
Endrin aldehyde	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
Endrin ketone	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
Heptachlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
Methoxychlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 11:47	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		35 - 115	07/18/14 07:28	07/19/14 11:47	1
DCB Decachlorobiphenyl (Surr)	69		45 - 120	07/18/14 07:28	07/19/14 11:47	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	ug/Kg		07/18/14 07:28	07/18/14 21:54	1
Aroclor 1221	ND		49	ug/Kg		07/18/14 07:28	07/18/14 21:54	1
Aroclor 1232	ND		49	ug/Kg		07/18/14 07:28	07/18/14 21:54	1
Aroclor 1242	ND		49	ug/Kg		07/18/14 07:28	07/18/14 21:54	1
Aroclor 1248	ND		49	ug/Kg		07/18/14 07:28	07/18/14 21:54	1
Aroclor 1254	ND		49	ug/Kg		07/18/14 07:28	07/18/14 21:54	1
Aroclor 1260	ND		49	ug/Kg		07/18/14 07:28	07/18/14 21:54	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-49-0-0.5

Lab Sample ID: 440-82809-38

Date Collected: 07/08/14 09:20

Matrix: Solid

Date Received: 07/08/14 20:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	74		45 - 120	07/18/14 07:28	07/18/14 21:54	1

Client Sample ID: MH-SB-49-1.5-2

Lab Sample ID: 440-82809-39

Date Collected: 07/08/14 09:28

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
4,4'-DDE	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
4,4'-DDT	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Aldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
alpha-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Chlordane (technical)	ND		50	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Dieldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Endosulfan I	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Endrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 12:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		35 - 115			07/18/14 07:28	07/19/14 12:01	1
DCB Decachlorobiphenyl (Surr)	73		45 - 120			07/18/14 07:28	07/19/14 12:01	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 07:28	07/18/14 22:22	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 07:28	07/18/14 22:22	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 07:28	07/18/14 22:22	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 07:28	07/18/14 22:22	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 07:28	07/18/14 22:22	1
Aroclor 1254	ND		50	ug/Kg		07/18/14 07:28	07/18/14 22:22	1
Aroclor 1260	ND		50	ug/Kg		07/18/14 07:28	07/18/14 22:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	74		45 - 120			07/18/14 07:28	07/18/14 22:22	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-62-0-0.5

Lab Sample ID: 440-82809-40

Date Collected: 07/08/14 09:41

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
4,4'-DDE	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
4,4'-DDT	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
Aldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
alpha-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
beta-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
Chlordane (technical)	ND		49	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
Dieldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
Endosulfan I	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
Endosulfan II	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
Endrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
Endrin aldehyde	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
Endrin ketone	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
Heptachlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
Methoxychlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 12:15	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	49		35 - 115	07/18/14 07:28	07/19/14 12:15	1
DCB Decachlorobiphenyl (Surr)	65		45 - 120	07/18/14 07:28	07/19/14 12:15	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	ug/Kg		07/18/14 07:28	07/19/14 16:25	1
Aroclor 1221	ND		49	ug/Kg		07/18/14 07:28	07/19/14 16:25	1
Aroclor 1232	ND		49	ug/Kg		07/18/14 07:28	07/19/14 16:25	1
Aroclor 1242	ND		49	ug/Kg		07/18/14 07:28	07/19/14 16:25	1
Aroclor 1248	ND		49	ug/Kg		07/18/14 07:28	07/19/14 16:25	1
Aroclor 1254	ND		49	ug/Kg		07/18/14 07:28	07/19/14 16:25	1
Aroclor 1260	ND		49	ug/Kg		07/18/14 07:28	07/19/14 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	90		45 - 120	07/18/14 07:28	07/19/14 16:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.2		2.0	mg/Kg		07/15/14 08:54	07/15/14 20:09	5

Client Sample ID: MH-SB-62-1.5-2

Lab Sample ID: 440-82809-41

Date Collected: 07/08/14 09:53

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
4,4'-DDE	5.1		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
4,4'-DDT	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-62-1.5-2

Lab Sample ID: 440-82809-41

Date Collected: 07/08/14 09:53

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
alpha-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
Chlordane (technical)	ND		50	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
delta-BHC	ND		10	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
Dieldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
Endosulfan I	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
Endosulfan sulfate	ND		10	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
Endrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 12:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	59		35 - 115			07/18/14 07:28	07/19/14 12:29	1
DCB Decachlorobiphenyl (Surr)	73		45 - 120			07/18/14 07:28	07/19/14 12:29	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 07:28	07/19/14 16:54	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 07:28	07/19/14 16:54	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 07:28	07/19/14 16:54	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 07:28	07/19/14 16:54	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 07:28	07/19/14 16:54	1
Aroclor 1254	57		50	ug/Kg		07/18/14 07:28	07/19/14 16:54	1
Aroclor 1260	ND		50	ug/Kg		07/18/14 07:28	07/19/14 16:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	93		45 - 120			07/18/14 07:28	07/19/14 16:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.3		2.0	mg/Kg		07/15/14 08:54	07/15/14 20:14	5

Client Sample ID: MH-SB-63-0-0.5

Lab Sample ID: 440-82809-42

Date Collected: 07/08/14 10:08

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
4,4'-DDE	5.8		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
4,4'-DDT	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
Aldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
alpha-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-63-0-0.5

Lab Sample ID: 440-82809-42

Date Collected: 07/08/14 10:08

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		50	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
Dieldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
Endosulfan I	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
Endrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:43	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		35 - 115	07/18/14 07:28	07/19/14 12:43	1
DCB Decachlorobiphenyl (Surr)	125	X	45 - 120	07/18/14 07:28	07/19/14 12:43	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 07:28	07/18/14 23:47	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 07:28	07/18/14 23:47	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 07:28	07/18/14 23:47	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 07:28	07/18/14 23:47	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 07:28	07/18/14 23:47	1
Aroclor 1254	ND		50	ug/Kg		07/18/14 07:28	07/18/14 23:47	1
Aroclor 1260	ND		50	ug/Kg		07/18/14 07:28	07/18/14 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	70		45 - 120	07/18/14 07:28	07/18/14 23:47	1

Client Sample ID: MH-SB-63-1.5-2

Lab Sample ID: 440-82809-43

Date Collected: 07/08/14 10:18

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
4,4'-DDE	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
4,4'-DDT	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
Aldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
alpha-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
Chlordane (technical)	ND		50	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
Dieldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
Endosulfan I	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 12:57	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-63-1.5-2

Lab Sample ID: 440-82809-43

Date Collected: 07/08/14 10:18

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 12:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	48		35 - 115			07/18/14 07:28	07/19/14 12:57	1
DCB Decachlorobiphenyl (Surr)	59		45 - 120			07/18/14 07:28	07/19/14 12:57	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 07:28	07/19/14 00:15	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 07:28	07/19/14 00:15	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 07:28	07/19/14 00:15	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 07:28	07/19/14 00:15	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 07:28	07/19/14 00:15	1
Aroclor 1254	ND		50	ug/Kg		07/18/14 07:28	07/19/14 00:15	1
Aroclor 1260	ND		50	ug/Kg		07/18/14 07:28	07/19/14 00:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	91		45 - 120			07/18/14 07:28	07/19/14 00:15	1

Client Sample ID: MH-SB-64-0-0.5

Lab Sample ID: 440-82809-44

Date Collected: 07/08/14 10:28

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
4,4'-DDE	6.8		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
4,4'-DDT	5.1		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
Aldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
alpha-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
beta-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
Chlordane (technical)	ND		49	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
delta-BHC	ND		9.8	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
Dieldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
Endosulfan I	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
Endosulfan II	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
Endosulfan sulfate	ND		9.8	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
Endrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
Endrin aldehyde	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
Endrin ketone	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
Heptachlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-64-0-0.5

Lab Sample ID: 440-82809-44

Date Collected: 07/08/14 10:28

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 13:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	50		35 - 115			07/18/14 07:28	07/19/14 13:10	1
DCB Decachlorobiphenyl (Surr)	61		45 - 120			07/18/14 07:28	07/19/14 13:10	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	ug/Kg		07/18/14 07:28	07/19/14 00:44	1
Aroclor 1221	ND		49	ug/Kg		07/18/14 07:28	07/19/14 00:44	1
Aroclor 1232	ND		49	ug/Kg		07/18/14 07:28	07/19/14 00:44	1
Aroclor 1242	ND		49	ug/Kg		07/18/14 07:28	07/19/14 00:44	1
Aroclor 1248	ND		49	ug/Kg		07/18/14 07:28	07/19/14 00:44	1
Aroclor 1254	ND		49	ug/Kg		07/18/14 07:28	07/19/14 00:44	1
Aroclor 1260	ND		49	ug/Kg		07/18/14 07:28	07/19/14 00:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	82		45 - 120			07/18/14 07:28	07/19/14 00:44	1

Client Sample ID: MH-SB-64-1.5-2

Lab Sample ID: 440-82809-45

Date Collected: 07/08/14 10:35

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
4,4'-DDE	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
4,4'-DDT	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Aldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
alpha-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Chlordane (technical)	ND		50	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
delta-BHC	ND		10	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Dieldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Endosulfan I	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Endosulfan sulfate	ND		10	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Endrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 13:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	35		35 - 115			07/18/14 07:28	07/19/14 13:24	1
DCB Decachlorobiphenyl (Surr)	69		45 - 120			07/18/14 07:28	07/19/14 13:24	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-64-1.5-2

Lab Sample ID: 440-82809-45

Date Collected: 07/08/14 10:35

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:12	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:12	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:12	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:12	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:12	1
Aroclor 1254	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:12	1
Aroclor 1260	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	53		45 - 120	07/18/14 07:28	07/19/14 01:12	1

Client Sample ID: MH-SB-65-0-0.5

Lab Sample ID: 440-82809-46

Date Collected: 07/08/14 10:39

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
4,4'-DDE	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
4,4'-DDT	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
Aldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
alpha-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
Chlordane (technical)	ND		50	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
delta-BHC	ND		10	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
Dieldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
Endosulfan I	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
Endosulfan sulfate	ND		10	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
Endrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:38	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		35 - 115	07/18/14 07:28	07/19/14 13:38	1
DCB Decachlorobiphenyl (Surr)	74		45 - 120	07/18/14 07:28	07/19/14 13:38	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:40	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:40	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:40	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:40	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:40	1
Aroclor 1254	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:40	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-65-0-0.5

Lab Sample ID: 440-82809-46

Date Collected: 07/08/14 10:39

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	ND		50	ug/Kg		07/18/14 07:28	07/19/14 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	80		45 - 120	07/18/14 07:28	07/19/14 01:40	1

Client Sample ID: MH-SB-65-1.5-2

Lab Sample ID: 440-82809-47

Date Collected: 07/08/14 10:40

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
4,4'-DDE	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
4,4'-DDT	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
Aldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
alpha-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
Chlordane (technical)	ND		50	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
Dieldrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
Endosulfan I	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
Endrin	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 07:28	07/19/14 13:52	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	49		35 - 115	07/18/14 07:28	07/19/14 13:52	1
DCB Decachlorobiphenyl (Surr)	74		45 - 120	07/18/14 07:28	07/19/14 13:52	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 07:28	07/19/14 02:09	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 07:28	07/19/14 02:09	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 07:28	07/19/14 02:09	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 07:28	07/19/14 02:09	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 07:28	07/19/14 02:09	1
Aroclor 1254	ND		50	ug/Kg		07/18/14 07:28	07/19/14 02:09	1
Aroclor 1260	ND		50	ug/Kg		07/18/14 07:28	07/19/14 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	70		45 - 120	07/18/14 07:28	07/19/14 02:09	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-35-0-0.5

Lab Sample ID: 440-82809-48

Date Collected: 07/08/14 11:57

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
4,4'-DDE	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
4,4'-DDT	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
Aldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
alpha-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
beta-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
Chlordane (technical)	ND		49	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
Dieldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
Endosulfan I	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
Endosulfan II	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
Endrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
Endrin aldehyde	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
Endrin ketone	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
Heptachlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
Methoxychlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:20	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		35 - 115	07/18/14 07:28	07/19/14 14:20	1
DCB Decachlorobiphenyl (Surr)	78		45 - 120	07/18/14 07:28	07/19/14 14:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Arsenic	ND		3.0	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Barium	56		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Beryllium	ND		0.50	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Cadmium	0.54		0.50	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Chromium	18		1.0	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Cobalt	5.0		1.0	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Copper	10		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Lead	3.7		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Molybdenum	ND		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Nickel	13		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Selenium	ND		3.0	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Thallium	ND		10	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Vanadium	24		1.0	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Zinc	45		5.0	mg/Kg		07/11/14 08:54	07/11/14 17:57	5
Silver	ND		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:57	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.020	mg/Kg		07/15/14 08:22	07/16/14 12:12	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-35-1.5-2

Lab Sample ID: 440-82809-49

Date Collected: 07/08/14 12:04

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
4,4'-DDE	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
4,4'-DDT	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
Aldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
alpha-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
beta-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
Chlordane (technical)	ND		49	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
Dieldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
Endosulfan I	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
Endosulfan II	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
Endrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
Endrin aldehyde	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
Endrin ketone	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
Heptachlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
Methoxychlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:33	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		35 - 115	07/18/14 07:28	07/19/14 14:33	1
DCB Decachlorobiphenyl (Surr)	86		45 - 120	07/18/14 07:28	07/19/14 14:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Arsenic	3.6		3.0	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Barium	110		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Beryllium	ND		0.50	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Cadmium	1.6		0.50	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Chromium	50		1.0	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Cobalt	13		1.0	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Copper	21		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Lead	7.9		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Molybdenum	ND		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Nickel	46		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Selenium	ND		3.0	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Thallium	ND		10	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Vanadium	51		1.0	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Zinc	52		5.0	mg/Kg		07/11/14 08:54	07/11/14 17:27	5
Silver	ND		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:27	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.020	mg/Kg		07/15/14 08:22	07/16/14 11:55	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-35-0-0.5-FD

Lab Sample ID: 440-82809-50

Date Collected: 07/08/14 12:06

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
4,4'-DDE	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
4,4'-DDT	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
Aldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
alpha-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
beta-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
Chlordane (technical)	ND		49	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
Dieldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
Endosulfan I	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
Endosulfan II	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
Endrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
Endrin aldehyde	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
Endrin ketone	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
Heptachlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
Methoxychlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 14:47	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		35 - 115	07/18/14 07:28	07/19/14 14:47	1
DCB Decachlorobiphenyl (Surr)	83		45 - 120	07/18/14 07:28	07/19/14 14:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Arsenic	ND		3.0	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Barium	41		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Beryllium	ND		0.49	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Cadmium	ND		0.49	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Chromium	14		0.99	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Cobalt	4.5		0.99	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Copper	7.7		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Lead	2.5		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Molybdenum	ND		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Nickel	12		2.0	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Selenium	ND		3.0	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Thallium	ND		9.9	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Vanadium	19		0.99	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Zinc	31		4.9	mg/Kg		07/11/14 08:54	07/11/14 17:59	5
Silver	ND		1.5	mg/Kg		07/11/14 08:54	07/11/14 17:59	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.020	mg/Kg		07/15/14 08:22	07/16/14 12:15	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-36-0-0.5

Lab Sample ID: 440-82809-51

Date Collected: 07/08/14 12:14

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
4,4'-DDE	60		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
4,4'-DDT	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
Aldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
alpha-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
beta-BHC	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
Chlordane (technical)	ND		49	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
delta-BHC	ND		9.8	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
Dieldrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
Endosulfan I	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
Endosulfan II	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
Endosulfan sulfate	ND		9.8	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
Endrin	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
Endrin aldehyde	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
Endrin ketone	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
Heptachlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
Methoxychlor	ND		4.9	ug/Kg		07/18/14 07:28	07/19/14 15:01	1
Toxaphene	ND		200	ug/Kg		07/18/14 07:28	07/19/14 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		35 - 115	07/18/14 07:28	07/19/14 15:01	1
DCB Decachlorobiphenyl (Surr)	85		45 - 120	07/18/14 07:28	07/19/14 15:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Arsenic	4.1		3.0	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Barium	95		1.5	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Beryllium	ND		0.50	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Cadmium	2.0		0.50	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Chromium	65		1.0	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Cobalt	12		1.0	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Copper	26		2.0	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Lead	28		2.0	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Molybdenum	ND		2.0	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Nickel	43		2.0	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Selenium	ND		3.0	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Thallium	ND		10	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Vanadium	46		1.0	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Zinc	180		5.0	mg/Kg		07/11/14 08:54	07/11/14 18:05	5
Silver	ND		1.5	mg/Kg		07/11/14 08:54	07/11/14 18:05	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.020	mg/Kg		07/15/14 08:22	07/16/14 12:17	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-36-1.5-2

Lab Sample ID: 440-82809-52

Date Collected: 07/08/14 12:21

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
4,4'-DDE	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
4,4'-DDT	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
Aldrin	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
alpha-BHC	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
beta-BHC	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
Chlordane (technical)	ND		49	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
Dieldrin	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
Endosulfan I	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
Endosulfan II	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
Endrin	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
Endrin aldehyde	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
Endrin ketone	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
Heptachlor	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
Methoxychlor	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:15	1
Toxaphene	ND		200	ug/Kg		07/18/14 11:51	07/21/14 00:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		35 - 115	07/18/14 11:51	07/21/14 00:15	1
DCB Decachlorobiphenyl (Surr)	83		45 - 120	07/18/14 11:51	07/21/14 00:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.8	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Arsenic	2.9		2.9	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Barium	140		1.5	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Beryllium	ND		0.49	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Cadmium	1.3		0.49	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Chromium	43		0.98	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Cobalt	16		0.98	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Copper	20		2.0	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Lead	3.1		2.0	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Molybdenum	ND		2.0	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Nickel	48		2.0	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Selenium	ND		2.9	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Thallium	ND		9.8	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Vanadium	44		0.98	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Zinc	28		4.9	mg/Kg		07/11/14 08:54	07/11/14 18:07	5
Silver	ND		1.5	mg/Kg		07/11/14 08:54	07/11/14 18:07	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	mg/Kg		07/15/14 08:22	07/16/14 12:20	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-37-0-0.5

Lab Sample ID: 440-82809-53

Date Collected: 07/08/14 12:33

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
4,4'-DDE	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
4,4'-DDT	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
Aldrin	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
alpha-BHC	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
Chlordane (technical)	ND		50	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
Dieldrin	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
Endosulfan I	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
Endrin	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:36	1
Toxaphene	ND		200	ug/Kg		07/18/14 11:51	07/20/14 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	44		35 - 115	07/18/14 11:51	07/20/14 21:36	1
DCB Decachlorobiphenyl (Surr)	74		45 - 120	07/18/14 11:51	07/20/14 21:36	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 11:51	07/19/14 20:59	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 11:51	07/19/14 20:59	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 11:51	07/19/14 20:59	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 11:51	07/19/14 20:59	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 11:51	07/19/14 20:59	1
Aroclor 1254	50		50	ug/Kg		07/18/14 11:51	07/19/14 20:59	1
Aroclor 1260	ND		50	ug/Kg		07/18/14 11:51	07/19/14 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	79		45 - 120	07/18/14 11:51	07/19/14 20:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.2		2.0	mg/Kg		07/15/14 08:54	07/15/14 20:15	5

Client Sample ID: MH-SB-37-1.5-2

Lab Sample ID: 440-82809-54

Date Collected: 07/08/14 12:36

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
4,4'-DDE	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
4,4'-DDT	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-37-1.5-2

Lab Sample ID: 440-82809-54

Date Collected: 07/08/14 12:36

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
alpha-BHC	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
Chlordane (technical)	ND		50	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
Dieldrin	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
Endosulfan I	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
Endrin	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
Toxaphene	ND		200	ug/Kg		07/18/14 11:51	07/20/14 21:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	35		35 - 115			07/18/14 11:51	07/20/14 21:50	1
DCB Decachlorobiphenyl (Surr)	61		45 - 120			07/18/14 11:51	07/20/14 21:50	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 11:51	07/19/14 11:52	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 11:51	07/19/14 11:52	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 11:51	07/19/14 11:52	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 11:51	07/19/14 11:52	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 11:51	07/19/14 11:52	1
Aroclor 1254	ND		50	ug/Kg		07/18/14 11:51	07/19/14 11:52	1
Aroclor 1260	ND		50	ug/Kg		07/18/14 11:51	07/19/14 11:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	69		45 - 120			07/18/14 11:51	07/19/14 11:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.9	mg/Kg		07/15/14 08:56	07/15/14 18:42	10

Client Sample ID: MH-SB-38-0-0.5

Lab Sample ID: 440-82809-55

Date Collected: 07/08/14 12:39

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
4,4'-DDE	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
4,4'-DDT	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
Aldrin	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
alpha-BHC	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
beta-BHC	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-38-0-0.5

Lab Sample ID: 440-82809-55

Date Collected: 07/08/14 12:39

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		50	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
delta-BHC	ND		9.9	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
Dieldrin	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
Endosulfan I	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
Endosulfan II	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
Endrin	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
Endrin aldehyde	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
Endrin ketone	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
Heptachlor	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
Methoxychlor	ND		5.0	ug/Kg		07/21/14 13:05	07/22/14 16:16	1
Toxaphene	ND		200	ug/Kg		07/21/14 13:05	07/22/14 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	59		35 - 115	07/21/14 13:05	07/22/14 16:16	1
DCB Decachlorobiphenyl (Surr)	67		45 - 120	07/21/14 13:05	07/22/14 16:16	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:15	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:15	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:15	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:15	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:15	1
Aroclor 1254	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:15	1
Aroclor 1260	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	57		45 - 120	07/18/14 11:51	07/19/14 12:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27		2.0	mg/Kg		07/15/14 08:56	07/15/14 18:47	5

Client Sample ID: MH-SB-38-1.5-2

Lab Sample ID: 440-82809-56

Date Collected: 07/08/14 12:43

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
4,4'-DDE	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
4,4'-DDT	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
Aldrin	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
alpha-BHC	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
Chlordane (technical)	ND		50	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
Dieldrin	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-38-1.5-2

Lab Sample ID: 440-82809-56

Date Collected: 07/08/14 12:43

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
Endrin	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
Toxaphene	ND		200	ug/Kg		07/18/14 11:51	07/20/14 22:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	39		35 - 115			07/18/14 11:51	07/20/14 22:19	1
DCB Decachlorobiphenyl (Surr)	73		45 - 120			07/18/14 11:51	07/20/14 22:19	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:38	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:38	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:38	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:38	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:38	1
Aroclor 1254	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:38	1
Aroclor 1260	ND		50	ug/Kg		07/18/14 11:51	07/19/14 12:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	91		45 - 120			07/18/14 11:51	07/19/14 12:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.1		2.0	mg/Kg		07/15/14 08:56	07/15/14 18:46	5

Client Sample ID: MH-SB-39-0-0.5

Lab Sample ID: 440-82809-57

Date Collected: 07/08/14 12:52

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
4,4'-DDE	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
4,4'-DDT	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
Aldrin	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
alpha-BHC	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
beta-BHC	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
Chlordane (technical)	ND		49	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
Dieldrin	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
Endosulfan I	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
Endosulfan II	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-39-0-0.5

Lab Sample ID: 440-82809-57

Date Collected: 07/08/14 12:52

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
Endrin aldehyde	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
Endrin ketone	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
Heptachlor	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
Methoxychlor	ND		4.9	ug/Kg		07/18/14 11:51	07/21/14 00:45	1
Toxaphene	ND		200	ug/Kg		07/18/14 11:51	07/21/14 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	44		35 - 115	07/18/14 11:51	07/21/14 00:45	1
DCB Decachlorobiphenyl (Surr)	61		45 - 120	07/18/14 11:51	07/21/14 00:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Arsenic	3.5		3.0	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Barium	91		1.5	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Beryllium	ND		0.50	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Cadmium	1.2		0.50	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Chromium	33		1.0	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Cobalt	9.9		1.0	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Copper	21		2.0	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Lead	8.5		2.0	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Molybdenum	ND		2.0	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Nickel	29		2.0	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Selenium	ND		3.0	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Thallium	ND		10	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Vanadium	41		1.0	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Zinc	390		5.0	mg/Kg		07/11/14 08:54	07/11/14 18:09	5
Silver	ND		1.5	mg/Kg		07/11/14 08:54	07/11/14 18:09	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	mg/Kg		07/15/14 08:22	07/16/14 12:27	1

Client Sample ID: MH-SB-39-1.5-2

Lab Sample ID: 440-82809-58

Date Collected: 07/08/14 13:00

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
4,4'-DDE	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
4,4'-DDT	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
Aldrin	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
alpha-BHC	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
Chlordane (technical)	ND		50	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 11:51	07/21/14 00:59	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-39-1.5-2

Lab Sample ID: 440-82809-58

Date Collected: 07/08/14 13:00

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
Endosulfan I	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
Endrin	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 11:51	07/21/14 00:59	1
Toxaphene	ND		200	ug/Kg		07/18/14 11:51	07/21/14 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	45		35 - 115	07/18/14 11:51	07/21/14 00:59	1
DCB Decachlorobiphenyl (Surr)	73		45 - 120	07/18/14 11:51	07/21/14 00:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		20	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Arsenic	ND		5.9	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Barium	90		3.0	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Beryllium	ND		0.99	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Cadmium	1.7		0.99	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Chromium	55		2.0	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Cobalt	17		2.0	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Copper	21		4.0	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Lead	ND		4.0	mg/Kg		07/11/14 08:54	07/16/14 12:43	10
Molybdenum	ND		4.0	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Nickel	59		4.0	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Selenium	ND		5.9	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Thallium	ND		20	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Vanadium	60		2.0	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Zinc	42		9.9	mg/Kg		07/11/14 08:54	07/14/14 12:02	10
Silver	ND		3.0	mg/Kg		07/11/14 08:54	07/14/14 12:02	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	mg/Kg		07/15/14 08:22	07/16/14 12:30	1

Client Sample ID: MH-SB-40-0-0.5

Lab Sample ID: 440-82809-59

Date Collected: 07/08/14 13:04

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
4,4'-DDE	11		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
4,4'-DDT	5.3		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
Aldrin	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-40-0-0.5

Lab Sample ID: 440-82809-59

Date Collected: 07/08/14 13:04

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
beta-BHC	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
Chlordane (technical)	ND		50	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
Dieldrin	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
Endosulfan I	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
Endosulfan II	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
Endrin	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
Endrin aldehyde	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
Endrin ketone	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
gamma-BHC (Lindane)	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
Heptachlor	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
Heptachlor epoxide	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
Methoxychlor	ND		5.0	ug/Kg		07/18/14 11:51	07/20/14 22:34	1
Toxaphene	ND		200	ug/Kg		07/18/14 11:51	07/20/14 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		35 - 115	07/18/14 11:51	07/20/14 22:34	1
DCB Decachlorobiphenyl (Surr)	87		45 - 120	07/18/14 11:51	07/20/14 22:34	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		07/18/14 11:51	07/19/14 13:00	1
Aroclor 1221	ND		50	ug/Kg		07/18/14 11:51	07/19/14 13:00	1
Aroclor 1232	ND		50	ug/Kg		07/18/14 11:51	07/19/14 13:00	1
Aroclor 1242	ND		50	ug/Kg		07/18/14 11:51	07/19/14 13:00	1
Aroclor 1248	ND		50	ug/Kg		07/18/14 11:51	07/19/14 13:00	1
Aroclor 1254	ND		50	ug/Kg		07/18/14 11:51	07/19/14 13:00	1
Aroclor 1260	ND		50	ug/Kg		07/18/14 11:51	07/19/14 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	80		45 - 120	07/18/14 11:51	07/19/14 13:00	1

Client Sample ID: MH-SB-40-1.5-2

Lab Sample ID: 440-82809-60

Date Collected: 07/08/14 13:31

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
4,4'-DDE	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
4,4'-DDT	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
Aldrin	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
alpha-BHC	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
beta-BHC	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
Chlordane (technical)	ND		49	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
delta-BHC	ND		9.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
Dieldrin	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
Endosulfan I	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1

TestAmerica Irvine

Client Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-40-1.5-2

Lab Sample ID: 440-82809-60

Date Collected: 07/08/14 13:31

Matrix: Solid

Date Received: 07/08/14 20:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
Endosulfan sulfate	ND		9.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
Endrin	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
Endrin aldehyde	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
Endrin ketone	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
gamma-BHC (Lindane)	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
Heptachlor	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
Heptachlor epoxide	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
Methoxychlor	ND		4.9	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
Toxaphene	ND		200	ug/Kg		07/18/14 11:51	07/20/14 22:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	52		35 - 115			07/18/14 11:51	07/20/14 22:48	1
DCB Decachlorobiphenyl (Surr)	60		45 - 120			07/18/14 11:51	07/20/14 22:48	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	ug/Kg		07/18/14 11:51	07/19/14 13:23	1
Aroclor 1221	ND		49	ug/Kg		07/18/14 11:51	07/19/14 13:23	1
Aroclor 1232	ND		49	ug/Kg		07/18/14 11:51	07/19/14 13:23	1
Aroclor 1242	ND		49	ug/Kg		07/18/14 11:51	07/19/14 13:23	1
Aroclor 1248	ND		49	ug/Kg		07/18/14 11:51	07/19/14 13:23	1
Aroclor 1254	ND		49	ug/Kg		07/18/14 11:51	07/19/14 13:23	1
Aroclor 1260	ND		49	ug/Kg		07/18/14 11:51	07/19/14 13:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	55		45 - 120			07/18/14 11:51	07/19/14 13:23	1

Method Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-27A-0-0.5

Date Collected: 07/08/14 07:38

Date Received: 07/08/14 20:15

Lab Sample ID: 440-82809-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.19 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.19 g	2 mL	194318	07/17/14 19:11	JM	TAL IRV

Client Sample ID: MH-SB-27A-1.5-2

Date Collected: 07/08/14 07:43

Date Received: 07/08/14 20:15

Lab Sample ID: 440-82809-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.16 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.16 g	2 mL	194318	07/17/14 19:34	JM	TAL IRV

Client Sample ID: MH-SB-27B-0-0.5

Date Collected: 07/08/14 07:48

Date Received: 07/08/14 20:15

Lab Sample ID: 440-82809-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.13 g	2 mL	194318	07/17/14 19:57	JM	TAL IRV

Client Sample ID: MH-SB-27B-1.5-2

Date Collected: 07/08/14 07:55

Date Received: 07/08/14 20:15

Lab Sample ID: 440-82809-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.11 g	2 mL	194318	07/17/14 20:20	JM	TAL IRV

Client Sample ID: MH-SB-28A-0-0.5

Date Collected: 07/08/14 08:03

Date Received: 07/08/14 20:15

Lab Sample ID: 440-82809-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.10 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.10 g	2 mL	194318	07/17/14 20:43	JM	TAL IRV

Client Sample ID: MH-SB-28A-1.5-2

Date Collected: 07/08/14 08:08

Date Received: 07/08/14 20:15

Lab Sample ID: 440-82809-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.11 g	2 mL	194318	07/17/14 21:06	JM	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-28B-0-0.5

Lab Sample ID: 440-82809-7

Date Collected: 07/08/14 08:11

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.12 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.12 g	2 mL	194318	07/17/14 21:28	JM	TAL IRV

Client Sample ID: MH-SB-28B-1.5-2

Lab Sample ID: 440-82809-8

Date Collected: 07/08/14 08:27

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.12 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.12 g	2 mL	194318	07/17/14 21:51	JM	TAL IRV

Client Sample ID: MH-SB-28B-0-0.5-FD

Lab Sample ID: 440-82809-9

Date Collected: 07/08/14 08:13

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.04 g	2 mL	194352	07/16/14 14:37	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.04 g	2 mL	194290	07/17/14 03:09	JM	TAL IRV

Client Sample ID: MH-SB-29-0-0.5

Lab Sample ID: 440-82809-10

Date Collected: 07/08/14 08:44

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.11 g	2 mL	194843	07/18/14 15:17	KS	TAL IRV
Total/NA	Prep	3546			15.11 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.11 g	2 mL	194318	07/17/14 16:55	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	194193	07/15/14 19:44	VS	TAL IRV

Client Sample ID: MH-SB-29-1.5-2

Lab Sample ID: 440-82809-11

Date Collected: 07/08/14 08:47

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		15.12 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8081A	DL	5	15.12 g	2 mL	194843	07/18/14 15:31	KS	TAL IRV
Total/NA	Prep	3546			15.12 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.12 g	2 mL	194576	07/17/14 17:38	KS	TAL IRV
Total/NA	Prep	3546			15.12 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.12 g	2 mL	194318	07/17/14 17:18	JM	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-29-1.5-2

Lab Sample ID: 440-82809-11

Date Collected: 07/08/14 08:47

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		10	2.04 g	50 mL	194193	07/15/14 20:16	VS	TAL IRV

Client Sample ID: MH-SB-30-0-0.5

Lab Sample ID: 440-82809-12

Date Collected: 07/08/14 08:34

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.14 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.14 g	2 mL	194843	07/18/14 15:45	KS	TAL IRV
Total/NA	Prep	3546			15.14 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.14 g	2 mL	194318	07/17/14 17:40	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	194193	07/15/14 19:47	VS	TAL IRV

Client Sample ID: MH-SB-30-1.5-2

Lab Sample ID: 440-82809-13

Date Collected: 07/08/14 08:38

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.15 g	2 mL	194843	07/18/14 15:59	KS	TAL IRV
Total/NA	Prep	3546			15.15 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.15 g	2 mL	194318	07/17/14 18:03	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	194193	07/15/14 19:49	VS	TAL IRV

Client Sample ID: MH-SB-31-0-0.5

Lab Sample ID: 440-82809-14

Date Collected: 07/08/14 08:55

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.14 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.14 g	2 mL	194843	07/18/14 16:26	KS	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	193642	07/11/14 17:32	DP	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	193703	07/14/14 10:50	JS1	TAL IRV
Total/NA	Analysis	7471A		1	0.51 g	50 mL	193826	07/14/14 15:33	DB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-31-1.5-2

Lab Sample ID: 440-82809-15

Date Collected: 07/08/14 09:00

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.15 g	2 mL	194843	07/18/14 16:40	KS	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.03 g	50 mL	193642	07/11/14 17:34	DP	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	193703	07/14/14 10:50	JS1	TAL IRV
Total/NA	Analysis	7471A		1	0.51 g	50 mL	193826	07/14/14 15:25	DB	TAL IRV

Client Sample ID: MH-SB-32-0-0.5

Lab Sample ID: 440-82809-16

Date Collected: 07/08/14 09:09

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.11 g	2 mL	194843	07/18/14 16:12	KS	TAL IRV
Total/NA	Prep	3546			15.11 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.11 g	2 mL	194318	07/17/14 18:26	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	194193	07/15/14 19:50	VS	TAL IRV

Client Sample ID: MH-SB-32-1.5-2

Lab Sample ID: 440-82809-17

Date Collected: 07/08/14 09:16

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.10 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.10 g	2 mL	194576	07/17/14 18:36	KS	TAL IRV
Total/NA	Prep	3546			15.10 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.10 g	2 mL	194318	07/17/14 18:49	JM	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.04 g	50 mL	194193	07/15/14 20:18	VS	TAL IRV

Client Sample ID: MH-SB-33-0-0.5

Lab Sample ID: 440-82809-18

Date Collected: 07/08/14 09:46

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.11 g	2 mL	194576	07/17/14 19:34	KS	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.04 g	50 mL	193642	07/11/14 17:36	DP	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	193703	07/14/14 10:50	JS1	TAL IRV
Total/NA	Analysis	7471A		1	0.49 g	50 mL	193826	07/14/14 15:23	DB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-33-1.5-2

Lab Sample ID: 440-82809-19

Date Collected: 07/08/14 09:48

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.20 g	2 mL	194843	07/18/14 16:54	KS	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	193642	07/11/14 17:42	DP	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	193703	07/14/14 10:50	JS1	TAL IRV
Total/NA	Analysis	7471A		1	0.49 g	50 mL	193826	07/14/14 15:20	DB	TAL IRV

Client Sample ID: MH-SB-34-0-0.5

Lab Sample ID: 440-82809-20

Date Collected: 07/08/14 10:02

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.15 g	2 mL	194576	07/17/14 20:03	KS	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.04 g	50 mL	193642	07/11/14 17:44	DP	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	193939	07/15/14 08:22	JS1	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	194327	07/16/14 11:48	DB	TAL IRV

Client Sample ID: MH-SB-34-1.5-2

Lab Sample ID: 440-82809-21

Date Collected: 07/08/14 10:04

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.23 g	2 mL	194395	07/16/14 16:56	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.23 g	2 mL	194576	07/17/14 20:18	KS	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.01 g	50 mL	193743	07/14/14 11:58	EN	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.01 g	50 mL	194320	07/16/14 12:39	TK	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	193939	07/15/14 08:22	JS1	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	194327	07/16/14 11:50	DB	TAL IRV

Client Sample ID: MH-SB-44-0-0.5

Lab Sample ID: 440-82809-27

Date Collected: 07/08/14 07:53

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.10 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.10 g	2 mL	195005	07/19/14 12:07	KS	TAL IRV
Total/NA	Prep	3546			15.10 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.10 g	2 mL	194318	07/18/14 03:09	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-44-0-0.5

Lab Sample ID: 440-82809-27

Date Collected: 07/08/14 07:53

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		5	2.01 g	50 mL	194193	07/15/14 19:53	VS	TAL IRV

Client Sample ID: MH-SB-44-1.5-2

Lab Sample ID: 440-82809-28

Date Collected: 07/08/14 08:04

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.14 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.14 g	2 mL	195005	07/19/14 12:21	KS	TAL IRV
Total/NA	Prep	3546			15.14 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.14 g	2 mL	194318	07/18/14 03:32	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.01 g	50 mL	194193	07/15/14 20:21	VS	TAL IRV

Client Sample ID: MH-SB-45-0-0.5

Lab Sample ID: 440-82809-29

Date Collected: 07/08/14 08:07

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.11 g	2 mL	195005	07/19/14 12:50	KS	TAL IRV
Total/NA	Prep	3546			15.11 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.11 g	2 mL	194318	07/18/14 04:18	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	194193	07/15/14 19:59	VS	TAL IRV

Client Sample ID: MH-SB-45-1.5-2

Lab Sample ID: 440-82809-30

Date Collected: 07/08/14 08:16

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.11 g	2 mL	195005	07/19/14 13:05	KS	TAL IRV
Total/NA	Prep	3546			15.11 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.11 g	2 mL	194318	07/18/14 04:40	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.02 g	50 mL	194193	07/15/14 20:23	VS	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-46-0-0.5

Lab Sample ID: 440-82809-31

Date Collected: 07/08/14 08:21

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.11 g	2 mL	194846	07/19/14 00:16	KS	TAL IRV
Total/NA	Prep	3546			15.11 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.11 g	2 mL	194318	07/18/14 05:03	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.01 g	50 mL	194193	07/15/14 19:39	VS	TAL IRV

Client Sample ID: MH-SB-46-1.5-2

Lab Sample ID: 440-82809-32

Date Collected: 07/08/14 08:27

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.15 g	2 mL	195182	07/21/14 15:41	KS	TAL IRV
Total/NA	Prep	3546			15.15 g	2 mL	194607	07/17/14 12:29	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.15 g	2 mL	194318	07/18/14 05:26	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.00 g	50 mL	194193	07/15/14 20:24	VS	TAL IRV

Client Sample ID: MH-SB-46-1.5-2-FD

Lab Sample ID: 440-82809-33

Date Collected: 07/08/14 08:30

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.24 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.24 g	2 mL	195006	07/19/14 10:38	KS	TAL IRV
Total/NA	Prep	3546			15.24 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.24 g	2 mL	194910	07/18/14 19:32	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.02 g	50 mL	194193	07/15/14 20:26	VS	TAL IRV

Client Sample ID: MH-SB-47-0-0.5

Lab Sample ID: 440-82809-34

Date Collected: 07/08/14 08:48

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.12 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.12 g	2 mL	195006	07/19/14 10:52	KS	TAL IRV
Total/NA	Prep	3546			15.12 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.12 g	2 mL	194910	07/18/14 20:01	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.02 g	50 mL	194193	07/15/14 20:28	VS	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-47-1.5-2

Lab Sample ID: 440-82809-35

Date Collected: 07/08/14 09:01

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.18 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.18 g	2 mL	195006	07/19/14 11:06	KS	TAL IRV
Total/NA	Prep	3546			15.18 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.18 g	2 mL	194910	07/19/14 15:29	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.00 g	50 mL	194193	07/15/14 20:32	VS	TAL IRV

Client Sample ID: MH-SB-48-0-0.5

Lab Sample ID: 440-82809-36

Date Collected: 07/08/14 09:03

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.25 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.25 g	2 mL	195006	07/19/14 11:19	KS	TAL IRV
Total/NA	Prep	3546			15.25 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.25 g	2 mL	194910	07/19/14 15:57	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.00 g	50 mL	194193	07/15/14 20:34	VS	TAL IRV

Client Sample ID: MH-SB-48-1.5-2

Lab Sample ID: 440-82809-37

Date Collected: 07/08/14 09:11

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.09 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.09 g	2 mL	195006	07/19/14 11:33	KS	TAL IRV
Total/NA	Prep	3546			15.09 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.09 g	2 mL	194910	07/18/14 21:26	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.00 g	50 mL	194193	07/15/14 20:36	VS	TAL IRV

Client Sample ID: MH-SB-49-0-0.5

Lab Sample ID: 440-82809-38

Date Collected: 07/08/14 09:20

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.31 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.31 g	2 mL	195006	07/19/14 11:47	KS	TAL IRV
Total/NA	Prep	3546			15.31 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.31 g	2 mL	194910	07/18/14 21:54	JM	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-49-1.5-2

Lab Sample ID: 440-82809-39

Date Collected: 07/08/14 09:28

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.13 g	2 mL	195006	07/19/14 12:01	KS	TAL IRV
Total/NA	Prep	3546			15.13 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.13 g	2 mL	194910	07/18/14 22:22	JM	TAL IRV

Client Sample ID: MH-SB-62-0-0.5

Lab Sample ID: 440-82809-40

Date Collected: 07/08/14 09:41

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.16 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.16 g	2 mL	195006	07/19/14 12:15	KS	TAL IRV
Total/NA	Prep	3546			15.16 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.16 g	2 mL	194910	07/19/14 16:25	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	194193	07/15/14 20:09	VS	TAL IRV

Client Sample ID: MH-SB-62-1.5-2

Lab Sample ID: 440-82809-41

Date Collected: 07/08/14 09:53

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.03 g	2 mL	195006	07/19/14 12:29	KS	TAL IRV
Total/NA	Prep	3546			15.03 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.03 g	2 mL	194910	07/19/14 16:54	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	194193	07/15/14 20:14	VS	TAL IRV

Client Sample ID: MH-SB-63-0-0.5

Lab Sample ID: 440-82809-42

Date Collected: 07/08/14 10:08

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.13 g	2 mL	195006	07/19/14 12:43	KS	TAL IRV
Total/NA	Prep	3546			15.13 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.13 g	2 mL	194910	07/18/14 23:47	JM	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-63-1.5-2

Lab Sample ID: 440-82809-43

Date Collected: 07/08/14 10:18

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.09 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.09 g	2 mL	195006	07/19/14 12:57	KS	TAL IRV
Total/NA	Prep	3546			15.09 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.09 g	2 mL	194910	07/19/14 00:15	JM	TAL IRV

Client Sample ID: MH-SB-64-0-0.5

Lab Sample ID: 440-82809-44

Date Collected: 07/08/14 10:28

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.24 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.24 g	2 mL	195006	07/19/14 13:10	KS	TAL IRV
Total/NA	Prep	3546			15.24 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.24 g	2 mL	194910	07/19/14 00:44	JM	TAL IRV

Client Sample ID: MH-SB-64-1.5-2

Lab Sample ID: 440-82809-45

Date Collected: 07/08/14 10:35

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.02 g	2 mL	195006	07/19/14 13:24	KS	TAL IRV
Total/NA	Prep	3546			15.02 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.02 g	2 mL	194910	07/19/14 01:12	JM	TAL IRV

Client Sample ID: MH-SB-65-0-0.5

Lab Sample ID: 440-82809-46

Date Collected: 07/08/14 10:39

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.05 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.05 g	2 mL	195006	07/19/14 13:38	KS	TAL IRV
Total/NA	Prep	3546			15.05 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.05 g	2 mL	194910	07/19/14 01:40	JM	TAL IRV

Client Sample ID: MH-SB-65-1.5-2

Lab Sample ID: 440-82809-47

Date Collected: 07/08/14 10:40

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.13 g	2 mL	195006	07/19/14 13:52	KS	TAL IRV
Total/NA	Prep	3546			15.13 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-65-1.5-2

Lab Sample ID: 440-82809-47

Date Collected: 07/08/14 10:40

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1	15.13 g	2 mL	194910	07/19/14 02:09	JM	TAL IRV

Client Sample ID: MH-SB-35-0-0.5

Lab Sample ID: 440-82809-48

Date Collected: 07/08/14 11:57

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.16 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.16 g	2 mL	195006	07/19/14 14:20	KS	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	193642	07/11/14 17:57	DP	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	193939	07/15/14 08:22	JS1	TAL IRV
Total/NA	Analysis	7471A		1	0.49 g	50 mL	194327	07/16/14 12:12	DB	TAL IRV

Client Sample ID: MH-SB-35-1.5-2

Lab Sample ID: 440-82809-49

Date Collected: 07/08/14 12:04

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.16 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.16 g	2 mL	195006	07/19/14 14:33	KS	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	193642	07/11/14 17:27	DP	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	193939	07/15/14 08:22	JS1	TAL IRV
Total/NA	Analysis	7471A		1	0.49 g	50 mL	194327	07/16/14 11:55	DB	TAL IRV

Client Sample ID: MH-SB-35-0-0.5-FD

Lab Sample ID: 440-82809-50

Date Collected: 07/08/14 12:06

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.18 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.18 g	2 mL	195006	07/19/14 14:47	KS	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.03 g	50 mL	193642	07/11/14 17:59	DP	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	193939	07/15/14 08:22	JS1	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	194327	07/16/14 12:15	DB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-36-0-0.5

Lab Sample ID: 440-82809-51

Date Collected: 07/08/14 12:14

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.30 g	2 mL	194798	07/18/14 07:28	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.30 g	2 mL	195006	07/19/14 15:01	KS	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	193642	07/11/14 18:05	DP	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	193939	07/15/14 08:22	JS1	TAL IRV
Total/NA	Analysis	7471A		1	0.49 g	50 mL	194327	07/16/14 12:17	DB	TAL IRV

Client Sample ID: MH-SB-36-1.5-2

Lab Sample ID: 440-82809-52

Date Collected: 07/08/14 12:21

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.20 g	2 mL	195065	07/21/14 00:15	KS	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.04 g	50 mL	193642	07/11/14 18:07	DP	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	193939	07/15/14 08:22	JS1	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	194327	07/16/14 12:20	DB	TAL IRV

Client Sample ID: MH-SB-37-0-0.5

Lab Sample ID: 440-82809-53

Date Collected: 07/08/14 12:33

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.10 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.10 g	2 mL	195065	07/20/14 21:36	KS	TAL IRV
Total/NA	Prep	3546			15.10 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.10 g	2 mL	194957	07/19/14 20:59	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	193955	07/15/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	194193	07/15/14 20:15	VS	TAL IRV

Client Sample ID: MH-SB-37-1.5-2

Lab Sample ID: 440-82809-54

Date Collected: 07/08/14 12:36

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.11 g	2 mL	195065	07/20/14 21:50	KS	TAL IRV
Total/NA	Prep	3546			15.11 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.11 g	2 mL	194957	07/19/14 11:52	JM	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	193956	07/15/14 08:56	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.04 g	50 mL	194153	07/15/14 18:42	VS	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-38-0-0.5

Lab Sample ID: 440-82809-55

Date Collected: 07/08/14 12:39

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	2 mL	195207	07/21/14 13:05	AB	TAL IRV
Total/NA	Analysis	8081A		1	15.08 g	2 mL	195383	07/22/14 16:16	KS	TAL IRV
Total/NA	Prep	3546			15.12 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.12 g	2 mL	194957	07/19/14 12:15	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	193956	07/15/14 08:56	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	194153	07/15/14 18:47	VS	TAL IRV

Client Sample ID: MH-SB-38-1.5-2

Lab Sample ID: 440-82809-56

Date Collected: 07/08/14 12:43

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.11 g	2 mL	195065	07/20/14 22:19	KS	TAL IRV
Total/NA	Prep	3546			15.11 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.11 g	2 mL	194957	07/19/14 12:38	JM	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	193956	07/15/14 08:56	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.03 g	50 mL	194153	07/15/14 18:46	VS	TAL IRV

Client Sample ID: MH-SB-39-0-0.5

Lab Sample ID: 440-82809-57

Date Collected: 07/08/14 12:52

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.16 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.16 g	2 mL	195065	07/21/14 00:45	KS	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	193642	07/11/14 18:09	DP	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	193939	07/15/14 08:22	JS1	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	194327	07/16/14 12:27	DB	TAL IRV

Client Sample ID: MH-SB-39-1.5-2

Lab Sample ID: 440-82809-58

Date Collected: 07/08/14 13:00

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.11 g	2 mL	195065	07/21/14 00:59	KS	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.02 g	50 mL	193743	07/14/14 12:02	EN	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	193361	07/11/14 08:54	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.02 g	50 mL	194320	07/16/14 12:43	TK	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	193939	07/15/14 08:22	JS1	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Client Sample ID: MH-SB-39-1.5-2

Lab Sample ID: 440-82809-58

Date Collected: 07/08/14 13:00

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		1	0.49 g	50 mL	194327	07/16/14 12:30	DB	TAL IRV

Client Sample ID: MH-SB-40-0-0.5

Lab Sample ID: 440-82809-59

Date Collected: 07/08/14 13:04

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.13 g	2 mL	195065	07/20/14 22:34	KS	TAL IRV
Total/NA	Prep	3546			15.13 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.13 g	2 mL	194957	07/19/14 13:00	JM	TAL IRV

Client Sample ID: MH-SB-40-1.5-2

Lab Sample ID: 440-82809-60

Date Collected: 07/08/14 13:31

Matrix: Solid

Date Received: 07/08/14 20:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.16 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8081A		1	15.16 g	2 mL	195065	07/20/14 22:48	KS	TAL IRV
Total/NA	Prep	3546			15.16 g	2 mL	194868	07/18/14 11:51	QCT	TAL IRV
Total/NA	Analysis	8082		1	15.16 g	2 mL	194957	07/19/14 13:23	JM	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: 440-82809-31 MS

Matrix: Solid

Analysis Batch: 194846

Client Sample ID: MH-SB-46-0-0.5

Prep Type: Total/NA

Prep Batch: 194607

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		13.2	7.49		ug/Kg		57	40 - 130
4,4'-DDE	11		13.2	20.0		ug/Kg		68	35 - 130
4,4'-DDT	5.0		13.2	14.2		ug/Kg		69	35 - 130
Aldrin	ND		13.2	8.72		ug/Kg		66	40 - 115
alpha-BHC	ND		13.2	8.21		ug/Kg		62	40 - 115
beta-BHC	ND		13.2	8.09		ug/Kg		61	40 - 120
delta-BHC	ND		13.2	ND		ug/Kg		63	45 - 120
Dieldrin	ND		13.2	8.60		ug/Kg		65	40 - 125
Endosulfan I	ND		13.2	10.1		ug/Kg		76	40 - 120
Endosulfan II	ND		13.2	8.81		ug/Kg		67	40 - 125
Endosulfan sulfate	ND		13.2	ND		ug/Kg		63	45 - 120
Endrin	ND		13.2	9.24		ug/Kg		70	45 - 125
Endrin aldehyde	ND		13.2	7.04		ug/Kg		53	30 - 120
Endrin ketone	ND		13.2	7.69		ug/Kg		58	40 - 120
gamma-BHC (Lindane)	ND		13.2	8.68		ug/Kg		66	40 - 120
Heptachlor	ND		13.2	8.41		ug/Kg		64	40 - 115
Heptachlor epoxide	ND		13.2	9.29		ug/Kg		70	45 - 115
Methoxychlor	ND		13.2	9.67		ug/Kg		73	40 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	59		35 - 115
DCB Decachlorobiphenyl (Surr)	63		45 - 120

Lab Sample ID: 440-82809-31 MSD

Matrix: Solid

Analysis Batch: 194846

Client Sample ID: MH-SB-46-0-0.5

Prep Type: Total/NA

Prep Batch: 194607

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
4,4'-DDD	ND		13.2	6.76		ug/Kg		51	40 - 130	18	30
4,4'-DDE	11		13.2	18.8		ug/Kg		59	35 - 130	6	30
4,4'-DDT	5.0		13.2	12.3		ug/Kg		56	35 - 130	14	30
Aldrin	ND		13.2	8.49		ug/Kg		64	40 - 115	3	30
alpha-BHC	ND		13.2	8.01		ug/Kg		60	40 - 115	2	30
beta-BHC	ND		13.2	8.21		ug/Kg		62	40 - 120	1	30
delta-BHC	ND		13.2	ND		ug/Kg		62	45 - 120	2	30
Dieldrin	ND		13.2	8.01		ug/Kg		60	40 - 125	7	30
Endosulfan I	ND		13.2	9.20		ug/Kg		69	40 - 120	9	30
Endosulfan II	ND		13.2	8.22		ug/Kg		62	40 - 125	7	30
Endosulfan sulfate	ND		13.2	ND		ug/Kg		56	45 - 120	11	30
Endrin	ND		13.2	8.51		ug/Kg		64	45 - 125	8	30
Endrin aldehyde	ND		13.2	6.32		ug/Kg		48	30 - 120	11	30
Endrin ketone	ND		13.2	7.29		ug/Kg		55	40 - 120	5	30
gamma-BHC (Lindane)	ND		13.2	8.05		ug/Kg		61	40 - 120	8	30
Heptachlor	ND		13.2	8.46	F2	ug/Kg		64	40 - 115	40	30
Heptachlor epoxide	ND		13.2	8.92		ug/Kg		67	45 - 115	4	30
Methoxychlor	ND		13.2	8.12		ug/Kg		61	40 - 135	17	30

TestAmerica Irvine

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-82809-31 MSD

Matrix: Solid

Analysis Batch: 194846

Client Sample ID: MH-SB-46-0-0.5

Prep Type: Total/NA

Prep Batch: 194607

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	56		35 - 115
DCB Decachlorobiphenyl (Surr)	56		45 - 120

Lab Sample ID: 440-82809-49 MS

Matrix: Solid

Analysis Batch: 195006

Client Sample ID: MH-SB-35-1.5-2

Prep Type: Total/NA

Prep Batch: 194798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		13.0	10.5		ug/Kg		81	40 - 130
4,4'-DDE	ND		13.0	14.2		ug/Kg		109	35 - 130
4,4'-DDT	ND		13.0	11.8		ug/Kg		91	35 - 130
Aldrin	ND		13.0	9.33		ug/Kg		71	40 - 115
alpha-BHC	ND		13.0	8.75		ug/Kg		67	40 - 115
beta-BHC	ND		13.0	9.88		ug/Kg		76	40 - 120
delta-BHC	ND		13.0	ND		ug/Kg		71	45 - 120
Dieldrin	ND		13.0	9.59		ug/Kg		74	40 - 125
Endosulfan I	ND		13.0	9.62		ug/Kg		74	40 - 120
Endosulfan II	ND		13.0	9.51		ug/Kg		73	40 - 125
Endosulfan sulfate	ND		13.0	ND		ug/Kg		74	45 - 120
Endrin	ND		13.0	10.8		ug/Kg		83	45 - 125
Endrin aldehyde	ND		13.0	8.07		ug/Kg		62	30 - 120
Endrin ketone	ND		13.0	9.27		ug/Kg		71	40 - 120
gamma-BHC (Lindane)	ND		13.0	9.02		ug/Kg		69	40 - 120
Heptachlor	ND		13.0	10.5		ug/Kg		80	40 - 115
Heptachlor epoxide	ND		13.0	9.85		ug/Kg		75	45 - 115
Methoxychlor	ND		13.0	11.9		ug/Kg		91	40 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	63		35 - 115
DCB Decachlorobiphenyl (Surr)	79		45 - 120

Lab Sample ID: 440-82809-49 MSD

Matrix: Solid

Analysis Batch: 195006

Client Sample ID: MH-SB-35-1.5-2

Prep Type: Total/NA

Prep Batch: 194798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		13.2	9.75		ug/Kg		74	40 - 130	8	30
4,4'-DDE	ND		13.2	12.4		ug/Kg		94	35 - 130	13	30
4,4'-DDT	ND		13.2	10.3		ug/Kg		78	35 - 130	14	30
Aldrin	ND		13.2	8.50		ug/Kg		64	40 - 115	9	30
alpha-BHC	ND		13.2	8.20		ug/Kg		62	40 - 115	6	30
beta-BHC	ND		13.2	9.37		ug/Kg		71	40 - 120	5	30
delta-BHC	ND		13.2	ND		ug/Kg		66	45 - 120	6	30
Dieldrin	ND		13.2	8.33		ug/Kg		63	40 - 125	14	30
Endosulfan I	ND		13.2	9.46		ug/Kg		71	40 - 120	6	30
Endosulfan II	ND		13.2	8.83		ug/Kg		67	40 - 125	7	30
Endosulfan sulfate	ND		13.2	ND		ug/Kg		69	45 - 120	6	30
Endrin	ND		13.2	9.79		ug/Kg		74	45 - 125	10	30

TestAmerica Irvine

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-82809-49 MSD

Matrix: Solid

Analysis Batch: 195006

Client Sample ID: MH-SB-35-1.5-2

Prep Type: Total/NA

Prep Batch: 194798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin aldehyde	ND		13.2	7.87		ug/Kg		59	30 - 120	2	30
Endrin ketone	ND		13.2	9.28		ug/Kg		70	40 - 120	0	30
gamma-BHC (Lindane)	ND		13.2	8.42		ug/Kg		64	40 - 120	7	30
Heptachlor	ND		13.2	9.65		ug/Kg		73	40 - 115	8	30
Heptachlor epoxide	ND		13.2	9.12		ug/Kg		69	45 - 115	8	30
Methoxychlor	ND		13.2	11.2		ug/Kg		85	40 - 135	6	30
Surrogate	%Recovery	MSD Qualifier	Limits								
Tetrachloro-m-xylene	61		35 - 115								
DCB Decachlorobiphenyl (Surr)	70		45 - 120								

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: 440-82809-8 MS

Matrix: Solid

Analysis Batch: 194318

Client Sample ID: MH-SB-28B-1.5-2

Prep Type: Total/NA

Prep Batch: 194395

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		65.9	ND		ug/Kg		66	50 - 120		
Aroclor 1260	ND		65.9	ND		ug/Kg		60	50 - 125		
Surrogate	%Recovery	MS Qualifier	Limits								
DCB Decachlorobiphenyl (Surr)	64		45 - 120								

Lab Sample ID: 440-82809-8 MSD

Matrix: Solid

Analysis Batch: 194318

Client Sample ID: MH-SB-28B-1.5-2

Prep Type: Total/NA

Prep Batch: 194395

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		66.1	ND		ug/Kg		65	50 - 120	1	30
Aroclor 1260	ND		66.1	ND		ug/Kg		59	50 - 125	1	30
Surrogate	%Recovery	MSD Qualifier	Limits								
DCB Decachlorobiphenyl (Surr)	65		45 - 120								

Lab Sample ID: 440-82809-31 MS

Matrix: Solid

Analysis Batch: 194318

Client Sample ID: MH-SB-46-0-0.5

Prep Type: Total/NA

Prep Batch: 194607

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		66.2	54.8		ug/Kg		83	50 - 120		
Aroclor 1260	ND		66.2	108	F1	ug/Kg		162	50 - 125		
Surrogate	%Recovery	MS Qualifier	Limits								
DCB Decachlorobiphenyl (Surr)	67		45 - 120								

TestAmerica Irvine

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-82809-31 MSD

Matrix: Solid

Analysis Batch: 194318

Client Sample ID: MH-SB-46-0-0.5

Prep Type: Total/NA

Prep Batch: 194607

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aroclor 1016	ND		66.2	63.9		ug/Kg		97	50 - 120	15	30
Aroclor 1260	ND		66.2	212	F1 F2	ug/Kg		320	50 - 125	65	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
DCB Decachlorobiphenyl (Surr)	75		45 - 120								

Method: 6010B - Metals (ICP)

Lab Sample ID: 440-82809-49 MS

Matrix: Solid

Analysis Batch: 193642

Client Sample ID: MH-SB-35-1.5-2

Prep Type: Total/NA

Prep Batch: 193361

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	ND		50.0	19.2	F1	mg/Kg		38	75 - 125		
Arsenic	3.6		50.0	45.8		mg/Kg		85	75 - 125		
Barium	110		50.0	198	F1	mg/Kg		179	75 - 125		
Beryllium	ND		50.0	44.6		mg/Kg		88	75 - 125		
Cadmium	1.6		50.0	44.8		mg/Kg		86	75 - 125		
Chromium	50		50.0	105		mg/Kg		111	75 - 125		
Cobalt	13		50.0	54.9		mg/Kg		84	75 - 125		
Copper	21		50.0	68.3		mg/Kg		94	75 - 125		
Lead	7.9		50.0	50.9		mg/Kg		86	75 - 125		
Molybdenum	ND		50.0	41.0		mg/Kg		79	75 - 125		
Nickel	46		50.0	90.9		mg/Kg		90	75 - 125		
Selenium	ND		50.0	36.1	F1	mg/Kg		72	75 - 125		
Thallium	ND		50.0	40.9		mg/Kg		82	75 - 125		
Vanadium	51		50.0	104		mg/Kg		106	75 - 125		
Zinc	52		50.0	91.1		mg/Kg		78	75 - 125		
Silver	ND		25.0	22.3		mg/Kg		89	75 - 125		

Lab Sample ID: 440-82809-49 MSD

Matrix: Solid

Analysis Batch: 193642

Client Sample ID: MH-SB-35-1.5-2

Prep Type: Total/NA

Prep Batch: 193361

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	ND		50.0	22.8	F1	mg/Kg		46	75 - 125	17	20
Arsenic	3.6		50.0	49.4		mg/Kg		92	75 - 125	7	20
Barium	110		50.0	134	F1 F2	mg/Kg		52	75 - 125	38	20
Beryllium	ND		50.0	46.5		mg/Kg		92	75 - 125	4	20
Cadmium	1.6		50.0	47.7		mg/Kg		92	75 - 125	6	20
Chromium	50		50.0	107		mg/Kg		116	75 - 125	2	20
Cobalt	13		50.0	59.4		mg/Kg		93	75 - 125	8	20
Copper	21		50.0	70.8		mg/Kg		99	75 - 125	4	20
Lead	7.9		50.0	50.0		mg/Kg		84	75 - 125	2	20
Molybdenum	ND		50.0	44.1		mg/Kg		86	75 - 125	7	20
Nickel	46		50.0	93.0		mg/Kg		94	75 - 125	2	20
Selenium	ND		50.0	38.5		mg/Kg		77	75 - 125	6	20
Thallium	ND		50.0	42.9		mg/Kg		86	75 - 125	5	20

TestAmerica Irvine

QC Sample Results

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-82809-49 MSD

Matrix: Solid

Analysis Batch: 193642

Client Sample ID: MH-SB-35-1.5-2

Prep Type: Total/NA

Prep Batch: 193361

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	51		50.0	108		mg/Kg		113	75 - 125	3	20
Zinc	52		50.0	88.5	F1	mg/Kg		73	75 - 125	3	20
Silver	ND		25.0	23.5		mg/Kg		94	75 - 125	5	20

Lab Sample ID: 440-82809-31 MS

Matrix: Solid

Analysis Batch: 194193

Client Sample ID: MH-SB-46-0-0.5

Prep Type: Total/NA

Prep Batch: 193955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	8.1		49.5	48.9		mg/Kg		82	75 - 125		

Lab Sample ID: 440-82809-31 MSD

Matrix: Solid

Analysis Batch: 194193

Client Sample ID: MH-SB-46-0-0.5

Prep Type: Total/NA

Prep Batch: 193955

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	8.1		50.0	51.3		mg/Kg		86	75 - 125	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: 440-82809-49 MS

Matrix: Solid

Analysis Batch: 194327

Client Sample ID: MH-SB-35-1.5-2

Prep Type: Total/NA

Prep Batch: 193939

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.047		0.784	0.863		mg/Kg		104	70 - 130		

Lab Sample ID: 440-82809-49 MSD

Matrix: Solid

Analysis Batch: 194327

Client Sample ID: MH-SB-35-1.5-2

Prep Type: Total/NA

Prep Batch: 193939

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.047		0.800	0.909		mg/Kg		108	70 - 130	5	20

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

GC Semi VOA

Analysis Batch: 194290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-9	MH-SB-28B-0-0.5-FD	Total/NA	Solid	8082	194352

Analysis Batch: 194318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-1	MH-SB-27A-0-0.5	Total/NA	Solid	8082	194395
440-82809-2	MH-SB-27A-1.5-2	Total/NA	Solid	8082	194395
440-82809-3	MH-SB-27B-0-0.5	Total/NA	Solid	8082	194395
440-82809-4	MH-SB-27B-1.5-2	Total/NA	Solid	8082	194395
440-82809-5	MH-SB-28A-0-0.5	Total/NA	Solid	8082	194395
440-82809-6	MH-SB-28A-1.5-2	Total/NA	Solid	8082	194395
440-82809-7	MH-SB-28B-0-0.5	Total/NA	Solid	8082	194395
440-82809-8	MH-SB-28B-1.5-2	Total/NA	Solid	8082	194395
440-82809-8 MS	MH-SB-28B-1.5-2	Total/NA	Solid	8082	194395
440-82809-8 MSD	MH-SB-28B-1.5-2	Total/NA	Solid	8082	194395
440-82809-10	MH-SB-29-0-0.5	Total/NA	Solid	8082	194395
440-82809-11	MH-SB-29-1.5-2	Total/NA	Solid	8082	194395
440-82809-12	MH-SB-30-0-0.5	Total/NA	Solid	8082	194395
440-82809-13	MH-SB-30-1.5-2	Total/NA	Solid	8082	194395
440-82809-16	MH-SB-32-0-0.5	Total/NA	Solid	8082	194395
440-82809-17	MH-SB-32-1.5-2	Total/NA	Solid	8082	194395
440-82809-27	MH-SB-44-0-0.5	Total/NA	Solid	8082	194607
440-82809-28	MH-SB-44-1.5-2	Total/NA	Solid	8082	194607
440-82809-29	MH-SB-45-0-0.5	Total/NA	Solid	8082	194607
440-82809-30	MH-SB-45-1.5-2	Total/NA	Solid	8082	194607
440-82809-31	MH-SB-46-0-0.5	Total/NA	Solid	8082	194607
440-82809-31 MS	MH-SB-46-0-0.5	Total/NA	Solid	8082	194607
440-82809-31 MSD	MH-SB-46-0-0.5	Total/NA	Solid	8082	194607
440-82809-32	MH-SB-46-1.5-2	Total/NA	Solid	8082	194607

Prep Batch: 194352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-9	MH-SB-28B-0-0.5-FD	Total/NA	Solid	3546	

Prep Batch: 194395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-1	MH-SB-27A-0-0.5	Total/NA	Solid	3546	
440-82809-2	MH-SB-27A-1.5-2	Total/NA	Solid	3546	
440-82809-3	MH-SB-27B-0-0.5	Total/NA	Solid	3546	
440-82809-4	MH-SB-27B-1.5-2	Total/NA	Solid	3546	
440-82809-5	MH-SB-28A-0-0.5	Total/NA	Solid	3546	
440-82809-6	MH-SB-28A-1.5-2	Total/NA	Solid	3546	
440-82809-7	MH-SB-28B-0-0.5	Total/NA	Solid	3546	
440-82809-8	MH-SB-28B-1.5-2	Total/NA	Solid	3546	
440-82809-8 MS	MH-SB-28B-1.5-2	Total/NA	Solid	3546	
440-82809-8 MSD	MH-SB-28B-1.5-2	Total/NA	Solid	3546	
440-82809-10	MH-SB-29-0-0.5	Total/NA	Solid	3546	
440-82809-11	MH-SB-29-1.5-2	Total/NA	Solid	3546	
440-82809-11 - DL	MH-SB-29-1.5-2	Total/NA	Solid	3546	
440-82809-12	MH-SB-30-0-0.5	Total/NA	Solid	3546	
440-82809-13	MH-SB-30-1.5-2	Total/NA	Solid	3546	
440-82809-14	MH-SB-31-0-0.5	Total/NA	Solid	3546	

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

GC Semi VOA (Continued)

Prep Batch: 194395 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-15	MH-SB-31-1.5-2	Total/NA	Solid	3546	
440-82809-16	MH-SB-32-0-0.5	Total/NA	Solid	3546	
440-82809-17	MH-SB-32-1.5-2	Total/NA	Solid	3546	
440-82809-18	MH-SB-33-0-0.5	Total/NA	Solid	3546	
440-82809-19	MH-SB-33-1.5-2	Total/NA	Solid	3546	
440-82809-20	MH-SB-34-0-0.5	Total/NA	Solid	3546	
440-82809-21	MH-SB-34-1.5-2	Total/NA	Solid	3546	

Analysis Batch: 194576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-11	MH-SB-29-1.5-2	Total/NA	Solid	8081A	194395
440-82809-17	MH-SB-32-1.5-2	Total/NA	Solid	8081A	194395
440-82809-18	MH-SB-33-0-0.5	Total/NA	Solid	8081A	194395
440-82809-20	MH-SB-34-0-0.5	Total/NA	Solid	8081A	194395
440-82809-21	MH-SB-34-1.5-2	Total/NA	Solid	8081A	194395

Prep Batch: 194607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-27	MH-SB-44-0-0.5	Total/NA	Solid	3546	
440-82809-28	MH-SB-44-1.5-2	Total/NA	Solid	3546	
440-82809-29	MH-SB-45-0-0.5	Total/NA	Solid	3546	
440-82809-30	MH-SB-45-1.5-2	Total/NA	Solid	3546	
440-82809-31	MH-SB-46-0-0.5	Total/NA	Solid	3546	
440-82809-31 MS	MH-SB-46-0-0.5	Total/NA	Solid	3546	
440-82809-31 MS	MH-SB-46-0-0.5	Total/NA	Solid	3546	
440-82809-31 MSD	MH-SB-46-0-0.5	Total/NA	Solid	3546	
440-82809-31 MSD	MH-SB-46-0-0.5	Total/NA	Solid	3546	
440-82809-32	MH-SB-46-1.5-2	Total/NA	Solid	3546	

Prep Batch: 194798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-33	MH-SB-46-1.5-2-FD	Total/NA	Solid	3546	
440-82809-34	MH-SB-47-0-0.5	Total/NA	Solid	3546	
440-82809-35	MH-SB-47-1.5-2	Total/NA	Solid	3546	
440-82809-36	MH-SB-48-0-0.5	Total/NA	Solid	3546	
440-82809-37	MH-SB-48-1.5-2	Total/NA	Solid	3546	
440-82809-38	MH-SB-49-0-0.5	Total/NA	Solid	3546	
440-82809-39	MH-SB-49-1.5-2	Total/NA	Solid	3546	
440-82809-40	MH-SB-62-0-0.5	Total/NA	Solid	3546	
440-82809-41	MH-SB-62-1.5-2	Total/NA	Solid	3546	
440-82809-42	MH-SB-63-0-0.5	Total/NA	Solid	3546	
440-82809-43	MH-SB-63-1.5-2	Total/NA	Solid	3546	
440-82809-44	MH-SB-64-0-0.5	Total/NA	Solid	3546	
440-82809-45	MH-SB-64-1.5-2	Total/NA	Solid	3546	
440-82809-46	MH-SB-65-0-0.5	Total/NA	Solid	3546	
440-82809-47	MH-SB-65-1.5-2	Total/NA	Solid	3546	
440-82809-48	MH-SB-35-0-0.5	Total/NA	Solid	3546	
440-82809-49	MH-SB-35-1.5-2	Total/NA	Solid	3546	
440-82809-49 MS	MH-SB-35-1.5-2	Total/NA	Solid	3546	
440-82809-49 MSD	MH-SB-35-1.5-2	Total/NA	Solid	3546	
440-82809-50	MH-SB-35-0-0.5-FD	Total/NA	Solid	3546	

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

GC Semi VOA (Continued)

Prep Batch: 194798 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-51	MH-SB-36-0-0.5	Total/NA	Solid	3546	

Analysis Batch: 194843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-10	MH-SB-29-0-0.5	Total/NA	Solid	8081A	194395
440-82809-11 - DL	MH-SB-29-1.5-2	Total/NA	Solid	8081A	194395
440-82809-12	MH-SB-30-0-0.5	Total/NA	Solid	8081A	194395
440-82809-13	MH-SB-30-1.5-2	Total/NA	Solid	8081A	194395
440-82809-14	MH-SB-31-0-0.5	Total/NA	Solid	8081A	194395
440-82809-15	MH-SB-31-1.5-2	Total/NA	Solid	8081A	194395
440-82809-16	MH-SB-32-0-0.5	Total/NA	Solid	8081A	194395
440-82809-19	MH-SB-33-1.5-2	Total/NA	Solid	8081A	194395

Analysis Batch: 194846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-31	MH-SB-46-0-0.5	Total/NA	Solid	8081A	194607
440-82809-31 MS	MH-SB-46-0-0.5	Total/NA	Solid	8081A	194607
440-82809-31 MSD	MH-SB-46-0-0.5	Total/NA	Solid	8081A	194607

Prep Batch: 194868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-52	MH-SB-36-1.5-2	Total/NA	Solid	3546	
440-82809-53	MH-SB-37-0-0.5	Total/NA	Solid	3546	
440-82809-54	MH-SB-37-1.5-2	Total/NA	Solid	3546	
440-82809-55	MH-SB-38-0-0.5	Total/NA	Solid	3546	
440-82809-56	MH-SB-38-1.5-2	Total/NA	Solid	3546	
440-82809-57	MH-SB-39-0-0.5	Total/NA	Solid	3546	
440-82809-58	MH-SB-39-1.5-2	Total/NA	Solid	3546	
440-82809-59	MH-SB-40-0-0.5	Total/NA	Solid	3546	
440-82809-60	MH-SB-40-1.5-2	Total/NA	Solid	3546	

Analysis Batch: 194910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-33	MH-SB-46-1.5-2-FD	Total/NA	Solid	8082	194798
440-82809-34	MH-SB-47-0-0.5	Total/NA	Solid	8082	194798
440-82809-35	MH-SB-47-1.5-2	Total/NA	Solid	8082	194798
440-82809-36	MH-SB-48-0-0.5	Total/NA	Solid	8082	194798
440-82809-37	MH-SB-48-1.5-2	Total/NA	Solid	8082	194798
440-82809-38	MH-SB-49-0-0.5	Total/NA	Solid	8082	194798
440-82809-39	MH-SB-49-1.5-2	Total/NA	Solid	8082	194798
440-82809-40	MH-SB-62-0-0.5	Total/NA	Solid	8082	194798
440-82809-41	MH-SB-62-1.5-2	Total/NA	Solid	8082	194798
440-82809-42	MH-SB-63-0-0.5	Total/NA	Solid	8082	194798
440-82809-43	MH-SB-63-1.5-2	Total/NA	Solid	8082	194798
440-82809-44	MH-SB-64-0-0.5	Total/NA	Solid	8082	194798
440-82809-45	MH-SB-64-1.5-2	Total/NA	Solid	8082	194798
440-82809-46	MH-SB-65-0-0.5	Total/NA	Solid	8082	194798
440-82809-47	MH-SB-65-1.5-2	Total/NA	Solid	8082	194798

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

GC Semi VOA (Continued)

Analysis Batch: 194957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-53	MH-SB-37-0-0.5	Total/NA	Solid	8082	194868
440-82809-54	MH-SB-37-1.5-2	Total/NA	Solid	8082	194868
440-82809-55	MH-SB-38-0-0.5	Total/NA	Solid	8082	194868
440-82809-56	MH-SB-38-1.5-2	Total/NA	Solid	8082	194868
440-82809-59	MH-SB-40-0-0.5	Total/NA	Solid	8082	194868
440-82809-60	MH-SB-40-1.5-2	Total/NA	Solid	8082	194868

Analysis Batch: 195005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-27	MH-SB-44-0-0.5	Total/NA	Solid	8081A	194607
440-82809-28	MH-SB-44-1.5-2	Total/NA	Solid	8081A	194607
440-82809-29	MH-SB-45-0-0.5	Total/NA	Solid	8081A	194607
440-82809-30	MH-SB-45-1.5-2	Total/NA	Solid	8081A	194607

Analysis Batch: 195006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-33	MH-SB-46-1.5-2-FD	Total/NA	Solid	8081A	194798
440-82809-34	MH-SB-47-0-0.5	Total/NA	Solid	8081A	194798
440-82809-35	MH-SB-47-1.5-2	Total/NA	Solid	8081A	194798
440-82809-36	MH-SB-48-0-0.5	Total/NA	Solid	8081A	194798
440-82809-37	MH-SB-48-1.5-2	Total/NA	Solid	8081A	194798
440-82809-38	MH-SB-49-0-0.5	Total/NA	Solid	8081A	194798
440-82809-39	MH-SB-49-1.5-2	Total/NA	Solid	8081A	194798
440-82809-40	MH-SB-62-0-0.5	Total/NA	Solid	8081A	194798
440-82809-41	MH-SB-62-1.5-2	Total/NA	Solid	8081A	194798
440-82809-42	MH-SB-63-0-0.5	Total/NA	Solid	8081A	194798
440-82809-43	MH-SB-63-1.5-2	Total/NA	Solid	8081A	194798
440-82809-44	MH-SB-64-0-0.5	Total/NA	Solid	8081A	194798
440-82809-45	MH-SB-64-1.5-2	Total/NA	Solid	8081A	194798
440-82809-46	MH-SB-65-0-0.5	Total/NA	Solid	8081A	194798
440-82809-47	MH-SB-65-1.5-2	Total/NA	Solid	8081A	194798
440-82809-48	MH-SB-35-0-0.5	Total/NA	Solid	8081A	194798
440-82809-49	MH-SB-35-1.5-2	Total/NA	Solid	8081A	194798
440-82809-49 MS	MH-SB-35-1.5-2	Total/NA	Solid	8081A	194798
440-82809-49 MSD	MH-SB-35-1.5-2	Total/NA	Solid	8081A	194798
440-82809-50	MH-SB-35-0-0.5-FD	Total/NA	Solid	8081A	194798
440-82809-51	MH-SB-36-0-0.5	Total/NA	Solid	8081A	194798

Analysis Batch: 195065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-52	MH-SB-36-1.5-2	Total/NA	Solid	8081A	194868
440-82809-53	MH-SB-37-0-0.5	Total/NA	Solid	8081A	194868
440-82809-54	MH-SB-37-1.5-2	Total/NA	Solid	8081A	194868
440-82809-56	MH-SB-38-1.5-2	Total/NA	Solid	8081A	194868
440-82809-57	MH-SB-39-0-0.5	Total/NA	Solid	8081A	194868
440-82809-58	MH-SB-39-1.5-2	Total/NA	Solid	8081A	194868
440-82809-59	MH-SB-40-0-0.5	Total/NA	Solid	8081A	194868
440-82809-60	MH-SB-40-1.5-2	Total/NA	Solid	8081A	194868

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

GC Semi VOA (Continued)

Analysis Batch: 195182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-32	MH-SB-46-1.5-2	Total/NA	Solid	8081A	194607

Prep Batch: 195207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-55	MH-SB-38-0-0.5	Total/NA	Solid	3546	

Analysis Batch: 195383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-55	MH-SB-38-0-0.5	Total/NA	Solid	8081A	195207

Metals

Prep Batch: 193361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-14	MH-SB-31-0-0.5	Total/NA	Solid	3050B	
440-82809-15	MH-SB-31-1.5-2	Total/NA	Solid	3050B	
440-82809-18	MH-SB-33-0-0.5	Total/NA	Solid	3050B	
440-82809-19	MH-SB-33-1.5-2	Total/NA	Solid	3050B	
440-82809-20	MH-SB-34-0-0.5	Total/NA	Solid	3050B	
440-82809-21	MH-SB-34-1.5-2	Total/NA	Solid	3050B	
440-82809-48	MH-SB-35-0-0.5	Total/NA	Solid	3050B	
440-82809-49	MH-SB-35-1.5-2	Total/NA	Solid	3050B	
440-82809-49 MS	MH-SB-35-1.5-2	Total/NA	Solid	3050B	
440-82809-49 MSD	MH-SB-35-1.5-2	Total/NA	Solid	3050B	
440-82809-50	MH-SB-35-0-0.5-FD	Total/NA	Solid	3050B	
440-82809-51	MH-SB-36-0-0.5	Total/NA	Solid	3050B	
440-82809-52	MH-SB-36-1.5-2	Total/NA	Solid	3050B	
440-82809-57	MH-SB-39-0-0.5	Total/NA	Solid	3050B	
440-82809-58	MH-SB-39-1.5-2	Total/NA	Solid	3050B	

Analysis Batch: 193642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-14	MH-SB-31-0-0.5	Total/NA	Solid	6010B	193361
440-82809-15	MH-SB-31-1.5-2	Total/NA	Solid	6010B	193361
440-82809-18	MH-SB-33-0-0.5	Total/NA	Solid	6010B	193361
440-82809-19	MH-SB-33-1.5-2	Total/NA	Solid	6010B	193361
440-82809-20	MH-SB-34-0-0.5	Total/NA	Solid	6010B	193361
440-82809-48	MH-SB-35-0-0.5	Total/NA	Solid	6010B	193361
440-82809-49	MH-SB-35-1.5-2	Total/NA	Solid	6010B	193361
440-82809-49 MS	MH-SB-35-1.5-2	Total/NA	Solid	6010B	193361
440-82809-49 MSD	MH-SB-35-1.5-2	Total/NA	Solid	6010B	193361
440-82809-50	MH-SB-35-0-0.5-FD	Total/NA	Solid	6010B	193361
440-82809-51	MH-SB-36-0-0.5	Total/NA	Solid	6010B	193361
440-82809-52	MH-SB-36-1.5-2	Total/NA	Solid	6010B	193361
440-82809-57	MH-SB-39-0-0.5	Total/NA	Solid	6010B	193361

Prep Batch: 193703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-14	MH-SB-31-0-0.5	Total/NA	Solid	7471A	
440-82809-15	MH-SB-31-1.5-2	Total/NA	Solid	7471A	

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Metals (Continued)

Prep Batch: 193703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-18	MH-SB-33-0-0.5	Total/NA	Solid	7471A	
440-82809-19	MH-SB-33-1.5-2	Total/NA	Solid	7471A	

Analysis Batch: 193743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-21	MH-SB-34-1.5-2	Total/NA	Solid	6010B	193361
440-82809-58	MH-SB-39-1.5-2	Total/NA	Solid	6010B	193361

Analysis Batch: 193826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-14	MH-SB-31-0-0.5	Total/NA	Solid	7471A	193703
440-82809-15	MH-SB-31-1.5-2	Total/NA	Solid	7471A	193703
440-82809-18	MH-SB-33-0-0.5	Total/NA	Solid	7471A	193703
440-82809-19	MH-SB-33-1.5-2	Total/NA	Solid	7471A	193703

Prep Batch: 193939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-20	MH-SB-34-0-0.5	Total/NA	Solid	7471A	
440-82809-21	MH-SB-34-1.5-2	Total/NA	Solid	7471A	
440-82809-48	MH-SB-35-0-0.5	Total/NA	Solid	7471A	
440-82809-49	MH-SB-35-1.5-2	Total/NA	Solid	7471A	
440-82809-49 MS	MH-SB-35-1.5-2	Total/NA	Solid	7471A	
440-82809-49 MSD	MH-SB-35-1.5-2	Total/NA	Solid	7471A	
440-82809-50	MH-SB-35-0-0.5-FD	Total/NA	Solid	7471A	
440-82809-51	MH-SB-36-0-0.5	Total/NA	Solid	7471A	
440-82809-52	MH-SB-36-1.5-2	Total/NA	Solid	7471A	
440-82809-57	MH-SB-39-0-0.5	Total/NA	Solid	7471A	
440-82809-58	MH-SB-39-1.5-2	Total/NA	Solid	7471A	

Prep Batch: 193955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-10	MH-SB-29-0-0.5	Total/NA	Solid	3050B	
440-82809-11	MH-SB-29-1.5-2	Total/NA	Solid	3050B	
440-82809-12	MH-SB-30-0-0.5	Total/NA	Solid	3050B	
440-82809-13	MH-SB-30-1.5-2	Total/NA	Solid	3050B	
440-82809-16	MH-SB-32-0-0.5	Total/NA	Solid	3050B	
440-82809-17	MH-SB-32-1.5-2	Total/NA	Solid	3050B	
440-82809-27	MH-SB-44-0-0.5	Total/NA	Solid	3050B	
440-82809-28	MH-SB-44-1.5-2	Total/NA	Solid	3050B	
440-82809-29	MH-SB-45-0-0.5	Total/NA	Solid	3050B	
440-82809-30	MH-SB-45-1.5-2	Total/NA	Solid	3050B	
440-82809-31	MH-SB-46-0-0.5	Total/NA	Solid	3050B	
440-82809-31 MS	MH-SB-46-0-0.5	Total/NA	Solid	3050B	
440-82809-31 MSD	MH-SB-46-0-0.5	Total/NA	Solid	3050B	
440-82809-32	MH-SB-46-1.5-2	Total/NA	Solid	3050B	
440-82809-33	MH-SB-46-1.5-2-FD	Total/NA	Solid	3050B	
440-82809-34	MH-SB-47-0-0.5	Total/NA	Solid	3050B	
440-82809-35	MH-SB-47-1.5-2	Total/NA	Solid	3050B	
440-82809-36	MH-SB-48-0-0.5	Total/NA	Solid	3050B	
440-82809-37	MH-SB-48-1.5-2	Total/NA	Solid	3050B	
440-82809-40	MH-SB-62-0-0.5	Total/NA	Solid	3050B	

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Metals (Continued)

Prep Batch: 193955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-41	MH-SB-62-1.5-2	Total/NA	Solid	3050B	
440-82809-53	MH-SB-37-0-0.5	Total/NA	Solid	3050B	

Prep Batch: 193956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-54	MH-SB-37-1.5-2	Total/NA	Solid	3050B	
440-82809-55	MH-SB-38-0-0.5	Total/NA	Solid	3050B	
440-82809-56	MH-SB-38-1.5-2	Total/NA	Solid	3050B	

Analysis Batch: 194153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-54	MH-SB-37-1.5-2	Total/NA	Solid	6010B	193956
440-82809-55	MH-SB-38-0-0.5	Total/NA	Solid	6010B	193956
440-82809-56	MH-SB-38-1.5-2	Total/NA	Solid	6010B	193956

Analysis Batch: 194193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-10	MH-SB-29-0-0.5	Total/NA	Solid	6010B	193955
440-82809-11	MH-SB-29-1.5-2	Total/NA	Solid	6010B	193955
440-82809-12	MH-SB-30-0-0.5	Total/NA	Solid	6010B	193955
440-82809-13	MH-SB-30-1.5-2	Total/NA	Solid	6010B	193955
440-82809-16	MH-SB-32-0-0.5	Total/NA	Solid	6010B	193955
440-82809-17	MH-SB-32-1.5-2	Total/NA	Solid	6010B	193955
440-82809-27	MH-SB-44-0-0.5	Total/NA	Solid	6010B	193955
440-82809-28	MH-SB-44-1.5-2	Total/NA	Solid	6010B	193955
440-82809-29	MH-SB-45-0-0.5	Total/NA	Solid	6010B	193955
440-82809-30	MH-SB-45-1.5-2	Total/NA	Solid	6010B	193955
440-82809-31	MH-SB-46-0-0.5	Total/NA	Solid	6010B	193955
440-82809-31 MS	MH-SB-46-0-0.5	Total/NA	Solid	6010B	193955
440-82809-31 MSD	MH-SB-46-0-0.5	Total/NA	Solid	6010B	193955
440-82809-32	MH-SB-46-1.5-2	Total/NA	Solid	6010B	193955
440-82809-33	MH-SB-46-1.5-2-FD	Total/NA	Solid	6010B	193955
440-82809-34	MH-SB-47-0-0.5	Total/NA	Solid	6010B	193955
440-82809-35	MH-SB-47-1.5-2	Total/NA	Solid	6010B	193955
440-82809-36	MH-SB-48-0-0.5	Total/NA	Solid	6010B	193955
440-82809-37	MH-SB-48-1.5-2	Total/NA	Solid	6010B	193955
440-82809-40	MH-SB-62-0-0.5	Total/NA	Solid	6010B	193955
440-82809-41	MH-SB-62-1.5-2	Total/NA	Solid	6010B	193955
440-82809-53	MH-SB-37-0-0.5	Total/NA	Solid	6010B	193955

Analysis Batch: 194320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-21	MH-SB-34-1.5-2	Total/NA	Solid	6010B	193361
440-82809-58	MH-SB-39-1.5-2	Total/NA	Solid	6010B	193361

Analysis Batch: 194327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-20	MH-SB-34-0-0.5	Total/NA	Solid	7471A	193939
440-82809-21	MH-SB-34-1.5-2	Total/NA	Solid	7471A	193939
440-82809-48	MH-SB-35-0-0.5	Total/NA	Solid	7471A	193939
440-82809-49	MH-SB-35-1.5-2	Total/NA	Solid	7471A	193939

TestAmerica Irvine

QC Association Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Metals (Continued)

Analysis Batch: 194327 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-82809-49 MS	MH-SB-35-1.5-2	Total/NA	Solid	7471A	193939
440-82809-49 MSD	MH-SB-35-1.5-2	Total/NA	Solid	7471A	193939
440-82809-50	MH-SB-35-0-0.5-FD	Total/NA	Solid	7471A	193939
440-82809-51	MH-SB-36-0-0.5	Total/NA	Solid	7471A	193939
440-82809-52	MH-SB-36-1.5-2	Total/NA	Solid	7471A	193939
440-82809-57	MH-SB-39-0-0.5	Total/NA	Solid	7471A	193939
440-82809-58	MH-SB-39-1.5-2	Total/NA	Solid	7471A	193939

Definitions/Glossary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: ENVIRON International Corp.
Project/Site: SMMUSD

TestAmerica Job ID: 440-82809-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-15
Arizona	State Program	9	AZ0671	10-13-14
California	LA Cty Sanitation Districts	9	10256	01-31-15
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-15
Hawaii	State Program	9	N/A	01-29-15 *
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15
Northern Mariana Islands	State Program	9	MP0002	01-29-15
Oregon	NELAP	10	4005	01-29-15
USDA	Federal		P330-09-00080	06-06-15
USEPA UCMR	Federal	1	CA01531	01-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Irvine



CHAIN-OF-CUSTODY

NO 10011

PAGE 1 of 5

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PROJECT NAME / FACILITY ID: SMMUSD

FIELD PERSON: A. Caron / K. Sutherland

PROJECT NUMBER: 04-33980A

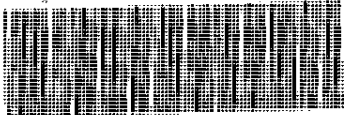
PROJECT MANAGER: Safaa Dergham

PROJECT LOCATION: Malibu, CA

LABORATORY: TestAmerica

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: Amy Caron		SIGNATURE: 	YEAR 2014	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (ft)	AIR SAMPLE VOLUME (L)	MATRIX (A) AIR (S) SOIL (G) GAS (M) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	PCBs 8082A Pesticides 8141 & 8081 Herbicides 8151 Lead 6010 Metals 6010/7000 MS/MSD	COMMENTS
SAMPLE I.D. NUMBER														
MH-SB-27A-0-0.5			7/8	0730	0.5	/	/	S	1	U	NO	X		
MH-SB-27A-1.5-2				0730	1.5	/	/		1			X		email results to: sdegham@environmentcorp.com
MH-SB-27B-0-0.5				0740	0.5	/	/		1			X		acaron@
MH-SB-27B-1.5-2				0755	1.5	/	/		1			X		
MH-SB-28A-0-0.5				0803	0.5	/	/		1			X		
MH-SB-28A-1.5-2				0808	1.5	/	/		1			X		
MH-SB-28B-0-0.5				0811	0.5	/	/		1			X		
MH-SB-28B-1.5-2				0821	1.5	/	/		2			X	X	
MH-SB-28B-0-0.5-FD				0813	0.5	/	/		1			X		
MH-SB-29-0-0.5				0844	0.5	/	/		1			X	X	
MH-SB-29-1.5-2				0847	1.5	/	/		1			X	X	
MH-SB-30-0-0.5				0854	0.5	/	/		1			X	X	
MH-SB-30-1.5-2				0858	1.5	/	/		1			X	X	
TOTAL														


440-82809 Chain of Custody

RELINQUISHED BY:	TIME/DATE: 1546 7/8/14	RECEIVED BY:	TIME/DATE: 1546 7/8/14	TURNAROUND TIME (CIRCLE ONE)	SAME DAY 24 HOURS 48 HOURS	72 HOURS 5 DAYS NORMAL
RELINQUISHED BY:	TIME/DATE: 1546 7/8/14	RECEIVED BY:	TIME/DATE: 1546 7/8/14	SAMPLE INTEGRITY:	IF SEALED, SEAL INTEGRITY	INTACT: Y N
RELINQUISHED BY:	TIME/DATE: 1546 7/8/14	RECEIVED BY:	TIME/DATE: 1546 7/8/14	TEMP: 4.8/4.6	INTACT: Y N	INTACT: Y N

440-82809 Chain of Custody

CHAIN-of-CUSTODY

No. 09861

PAGE 2 of 5

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PROJECT NAME / FACILITY ID: \$MMUSD

PROJECT NUMBER: 04-33980A

PROJECT LOCATION: Malibu, CA

IS THIS AUST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

MSA#: _____ WO#: _____

FIELD PERSON: A. Caron / K. Sutherland

PROJECT MANAGER: Safaa Dergham

LABORATORY: TestAmerica

SAMPLER: Amy Caron		SIGNATURE: Amy Caron		YEAR: 2014		SAMPLE DATE		SAMPLE TIME		SAMPLE DEPTH		AIR SAMPLE VOLUME (L)		MATRIX		NUMBER OF CONTAINERS		FILTERED/UNFILTERED (F/U)		PRESERVATION (SEE KEY)		ANALYSIS REQUIRED		PCBs 8082A		Pesticides		Herbicides		Lead 6010		Metals		SVOCs 8270C		TPH-tu11 cc		8015M		COMMENTS					
MH-SB-31-0-0.5		7/8		0.5		0.5		1		S		1		U		NO																													
MH-SB-31-1.5-2		1.5		2		0.5		1		S		1		U																															
MH-SB-32-0-0.5		0		0.5		0.5		1		S		1		U																															
MH-SB-32-1.5-2		1.5		2		0.5		1		S		1		U																															
MH-SB-33-0-0.5		0		0.5		0.5		1		S		1		U																															
MH-SB-33-1.5-2		1.5		2		0.5		1		S		1		U																															
MH-SB-34-0-0.5		0		0.5		0.5		1		S		1		U																															
MH-SB-34-1.5-2		1.5		2		0.5		1		S		1		U																															
JC-SB-62-4.5-5		4.5		5		0.5		1		S		1		U																															
JC-SB-62-14.5-15		14.5		15		0.5		1		S		1		U																															
JC-SB-62-24.5-25		24.5		25		0.5		1		S		1		U																															
JC-SB-62-34.5-35		34.5		35		0.5		1		S		1		U																															
JC-SB-62-34.5-40		34.5		40		0.5		1		S		1		U																															
TOTAL		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X			

RELINQUISHED BY: *[Signature]* 1546 7/8/14

RELINQUISHED BY: *[Signature]* 1546 7/8/14

RELINQUISHED BY: *[Signature]* 1546 7/8/14

RECEIVED BY: *[Signature]* 1546 7/8/14

RECEIVED BY: *[Signature]* 1546 7/8/14

RECEIVED BY: *[Signature]* 1546 7/8/14

TIME/DATE: 1546 7/8/14

TIME/DATE: 1546 7/8/14

TIME/DATE: 1546 7/8/14

IF SEALED, SEAL INTEGRITY

INTACT: Y N

SAMPLE INTEGRITY: 1546 7/8/14

INTACT: Y N Temp 5.12

72 HOURS

5 DAYS

NORMAL



CHAIN-OF-CUSTODY

NO 10083

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(602) 734-7700
(602) 734-7701 (fax)

PROJECT NAME / FACILITY ID: SMMUSD

PROJECT NUMBER: 0433980A

PROJECT LOCATION: Malibu, CA

MSA#: _____ WO#: _____

FIELD PERSON: K. Sutherland/A. Carran

PROJECT MANAGER: S. Derdham

LABORATORY: Test America

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER:	SIGNATURE:	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (ft)	AIR SAMPLE VOLUME (L)	MATRIX (A) AIR (S) SOIL (C) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	Herbicides by 8/1/08 Pesticides by 8/1/08 Metals by 6/10/2000 Lead by 6/10/2000 PCBs by 6/08/2000 MS/MSD	COMMENTS
MH-SB-44-0-0.5		2014	7/8	0153	0.5	1	S	1	✓	0	X	X	see pg 1
MH-SB-44-1.5-2			7/8	0804	1.5	1		1			X	X	
MH-SB-45-0-0.5			7/8	0807	0.5	1		1			X	X	
MH-SB-45-1.5-2			7/8	0816	1.5	1		1			X	X	
MH-SB-46-0-0.5			7/8	0824	0.5	2		2			X	X	
MH-SB-46-1.5-2			7/8	0827	1.5	1		1			X	X	
MH-SB-46-1.5-2-4D			7/8	0830	1.5	1		1			X	X	
MH-SB-47-0-0.5			7/8	0848	0.5	1		1			X	X	
MH-SB-47-1.5-2			7/8	0901	1.5	1		1			X	X	
MH-SB-48-0-0.5			7/8	0903	0.5	1		1			X	X	
MH-SB-48-1.5-2			7/8	0911	1.5	1		1			X	X	
MH-SB-49-0-0.5			7/8	0920	0.5	1		1			X	X	
MH-SB-49-1.5-2			7/8	0928	1.5	1		1			X	X	
TOTAL			7/8	0938	2	1		1			X	X	

RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:	TURNDOWN TIME (CIRCLE ONE)	SAME DAY 24 HOURS 48 HOURS	72 HOURS 5 DAYS NORMAL
	7/8/14		7/8/14			
	7/8/14		7/8/14			
	7/8/14		7/8/14			

IF SEALED, SEAL INTEGRITY	INTACT: Y N
SAMPLE INTEGRITY #51 48.46	INTACT: Y N



CHAIN-OF-CUSTODY

No 10082

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(602) 734-7701 (fax)

PROJECT NAME / FACILITY ID: SMMUSD

PROJECT NUMBER: 0433980A

PROJECT LOCATION: Malibu, CA

MSA#: _____ WO#: _____

FIELD PERSON: K. Sutherland/A. Carson

PROJECT MANAGER: S. Dergham

LABORATORY: Test America

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: <u>Kevin Sutherland</u>	SIGNATURE: <u>[Signature]</u>	SAMPLE DATE	YEAR	SAMPLE TIME	SAMPLE DEPTH (ft)	AIR SAMPLE VOLUME (L)	MATRIX (A) AIR (S) SOIL (G) GAS (M) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED				COMMENTS
											Residuals by 8/14 and 8/15	Metals by 8/15	6010/7000 Lead by 6010	PCBS by 8082A 6010	
MH-SB-62-0-0.5		7/8	2014	0941	0.5	✓	S	1	U	NO	X	X	X	X	See pg 1
MH-SB-62-1.5-2				0953	1.5			1			X	X	X	X	
MH-SB-63-0-0.5				1008	0.5			1			X	X	X	X	
MH-SB-63-1.5-2				1018	1.5			1			X	X	X	X	
MH-SB-64-0-0.5				1028	0.5			1			X	X	X	X	
MH-SB-64-1.5-2				1035	1.5			1			X	X	X	X	
MH-SB-65-0-0.5				1039	0.5			1			X	X	X	X	
MH-SB-65-1.5-2				1040	1.5			1			X	X	X	X	
MH-SB-35-0-0.5				1157	0.5			1			X	X	X	X	
MH-SB-35-1.5-2				1204	1.5			2			X	X	X	X	
MH-SB-35-0-0.5-FD				1206	0.5			1			X	X	X	X	
MH-SB-36-0-0.5				1214	0.5			1			X	X	X	X	
MH-SB-36-1.5-2				1221	1.5			1			X	X	X	X	
TOTAL				XXXX											

RELINQUISHED BY: <u>[Signature]</u>	TIME/DATE: <u>1941 7/8/14</u>	RECEIVED BY: <u>[Signature]</u>	TIME/DATE: <u>1546 7/8/14</u>	TURNAROUND TIME (CIRCLE ONE)	72 HOURS 5 DAYS NORMAL
RELINQUISHED BY: <u>[Signature]</u>	TIME/DATE: <u>0055 7/8/14</u>	RECEIVED BY: <u>[Signature]</u>	TIME/DATE: <u>7/8/14</u>	SAMPLE INTEGRITY: <u>4.9/46.5</u>	IF SEALED, SEAL INTEGRITY
RELINQUISHED BY: <u>[Signature]</u>	TIME/DATE: <u>20:15 7/8/14</u>	RECEIVED BY: <u>[Signature]</u>	TIME/DATE: <u>7/8/14</u>	INTACT: Y N	INTACT: Y N



CHAIN-OF-CUSTODY

NO 10084

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(602) 734-7701 (fax)

PROJECT NAME / FACILITY ID: SMMVSD

PROJECT NUMBER: 0433980A

PROJECT LOCATION: Malibu, CA

DATE: 7/8/14

MSA#: _____

WO#: _____

FIELD PERSON: K. Sutherland/A. Caron

PROJECT MANAGER: S. Derham

LABORATORY: Test America

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #:

SAMPLER: <u>Kevin Sutherland</u>	SIGNATURE: <u>[Signature]</u>	YEAR: <u>2014</u>	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (ft)	AIR SAMPLE VOLUME (L)	MATRIX (W) AIR (S) SOIL (G) GAS (M) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	TURNAROUND TIME (CIRCLE ONE)				IF SEALED, SEAL INTEGRITY
												72 HOURS	24 HOURS	48 HOURS	5 DAYS	
MH-SB-37-0-0.5		7/8	1238	0.5	1	1	1	1	1	1	X	X	X	X	see pg 1	
MH-SB-37-1.5-2		7/8	1236	1.5-2	1	1	1	1	1	1	X	X	X	X	did not sample	
MH-SB-38-0-0.5		7/8	1239	0.5	1	1	1	1	1	1	X	X	X	X	MH-SB-41 or	
MH-SB-38-1.5-2		7/8	1240	1.5-2	1	1	1	1	1	1	X	X	X	X	MH-SB-42	
MH-SB-39-0-0.5		7/8	1252	0.5	1	1	1	1	1	1	X	X	X	X		
MH-SB-39-1.5-2		7/8	1300	1.5-2	1	1	1	1	1	1	X	X	X	X		
MH-SB-40-0-0.5		7/8	1304	0.5	1	1	1	1	1	1	X	X	X	X		
MH-SB-40-1.5-2		7/8	1331	1.5-2	1	1	1	1	1	1	X	X	X	X		
MH-SB-41-0-0.5		7/8		0.5	1	1	1	1	1	1	X	X	X	X		
MH-SB-41-1.5-2		7/8		1.5-2	1	1	1	1	1	1	X	X	X	X		
MH-SB-42-0-0.5		7/8		0.5	1	1	1	1	1	1	X	X	X	X		
MH-SB-42-1.5-2		7/8		1.5-2	1	1	1	1	1	1	X	X	X	X		
TOTAL																

Login Sample Receipt Checklist

Client: ENVIRON International Corp.

Job Number: 440-82809-1

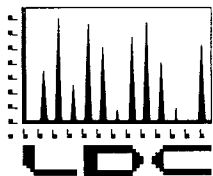
Login Number: 82809

List Source: TestAmerica Irvine

List Number: 1

Creator: Bernal, Janie M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

ENVIRON International Corporation
18100 Von Karman Avenue Ste. 600
Irvine, CA 92612
Attn: Ms. Safaa Dergham
CC: J. Arblaster & D. Rowe

July 31, 2014

SUBJECT: SMMUSD Malibu, Data Validation

Dear Ms. Dergham

Enclosed is the final validation report for the fractions listed below. This SDG was received on July 25, 2014. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #32263:

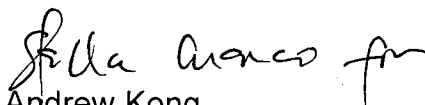
<u>SDG #</u>	<u>Fraction</u>
440-82503-1	Semivolatiles, Chlorinated Pesticides, Polychlorinated Biphenyls, Metals, Gasoline Range Organics, Diesel Range Organics, Organophosphorus Pesticides

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,


Andrew Kong
Project Manager/Senior Chemist

LDC #32263 (Environ-Irvine / SMMUSD Malibu)

32263ST-L3.wpd

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: SMMUSD
Collection Date: July 7, 2014
LDC Report Date: July 31, 2014
Matrix: Soil
Parameters: Semivolatiles
Validation Level: EPA Level III
Laboratory: TestAmerica, Inc.
Sample Delivery Group (SDG): 440-82503-1

Sample Identification

JC-SB-58-4.5-5
JC-SB-58-14.5-15
JC-SB-58-24.5-25
JC-SB-58-34.5-35
JC-SB-59-4.5-5
JC-SB-59-14.5-15
JC-SB-59-24.5-25
JC-SB-59-34.5-35

Introduction

This data review covers 8 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the validation criteria of less than or equal to 20.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
7/9/14	Benzidine	24.4	All samples in SDG 440-82503-1	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
6/23/14	Benzidine	125.6	All samples in SDG 440-82503-1	J (all detects) UJ (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

SMMUSD**Semivolatiles - Data Qualification Summary - SDG 440-82503-1**

SDG	Sample	Compound	Flag	A or P	Reason
440-82503-1	JC-SB-58-4.5-5 JC-SB-58-14.5-15 JC-SB-58-24.5-25 JC-SB-58-34.5-35 JC-SB-59-4.5-5 JC-SB-59-14.5-15 JC-SB-59-24.5-25 JC-SB-59-34.5-35	Benzidine	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
440-82503-1	JC-SB-58-4.5-5 JC-SB-58-14.5-15 JC-SB-58-24.5-25 JC-SB-58-34.5-35 JC-SB-59-4.5-5 JC-SB-59-14.5-15 JC-SB-59-24.5-25 JC-SB-59-34.5-35	Benzidine	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D)

SMMUSD**Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 440-82503-1**

No Sample Data Qualified in this SDG

SMMUSD**Semivolatiles - Field Blank Data Qualification Summary - SDG 440-82503-1**

No Sample Data Qualified in this SDG

LDC #: 32263A2a
 SDG #: 440-82503-1
 Laboratory: Test America, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 7-28-14

Page: 1 of 1

Reviewer: gm

2nd Reviewer: e

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>7/7/14</u>
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	$\leq 30/15/12$
IV.	Continuing calibration/ICV	SW	ccv/icv ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	C.S.
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	N	
XII.	Compound quantitation/RL/LOQ/LODs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: 50:1

1	JC-SB-58-4.5-5	11		21		31	
2	JC-SB-58-14.5-15	12		22		32	
3	JC-SB-58-24.5-25	13		23		33	
4	JC-SB-58-34.5-35	14		24		34	
5	JC-SB-59-4.5-5	15		25		35	
6	JC-SB-59-14.5-15	16		26		36	
7	JC-SB-59-24.5-25	17		27		37	
8	JC-SB- ~~59~~ ⁵ -34.5-35 <u>cm</u>	18		28		38	
9		19		29		39	
10		20	NB440-19283	30		40	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	T. 4-Chloroaniline	MM. 4-Chlorophenyl-phenyl ether	FFF. Di-n-octylphthalate	YYY. 2,3,5-Trimethylnaphthalene
B. Bis (2-chloroethyl) ether	U. Hexachlorobutadiene	NN. Fluorene	GGG. Benzo(b)fluoranthene	ZZZ. Perylene
C. 2-Chlorophenol	V. 4-Chloro-3-methylphenol	OO. 4-Nitroaniline	HHH. Benzo(k)fluoranthene	AAAA. Dibenzothiophene
D. 1,3-Dichlorobenzene	W. 2-Methylnaphthalene	PP. 4,6-Dinitro-2-methylphenol	III. Benzo(a)pyrene	BBBB. Benzo(a)fluoranthene
E. 1,4-Dichlorobenzene	X. Hexachlorocyclopentadiene	QQ. N-Nitrosodiphenylamine	JJJ. Indeno(1,2,3-cd)pyrene	CCCC. Benzo(b)fluorene
F. 1,2-Dichlorobenzene	Y. 2,4,6-Trichlorophenol	RR. 4-Bromophenyl-phenylether	KKK. Dibenz(a,h)anthracene	DDDD. cis/trans-Decalin
G. 2-Methylphenol	Z. 2,4,5-Trichlorophenol	SS. Hexachlorobenzene	LLL. Benzo(g,h,i)perylene	EEEE. Biphenyl
H. 2,2'-Oxybis(1-chloropropane)	AA. 2-Chloronaphthalene	TT. Pentachlorophenol	MMM. Bis(2-Chloroisopropyl)ether	FFFF. Retene
I. 4-Methylphenol	BB. 2-Nitroaniline	UU. Phenanthrene	NNN. Aniline	GGGG. C30-Hopane
J. N-Nitroso-di-n-propylamine	CC. Dimethylphthalate	VV. Anthracene	OOO. N-Nitrosodimethylamine	HHHH. 1-Methylphenanthrene
K. Hexachloroethane	DD. Acenaphthylene	WW. Carbazole	PPP. Benzoic Acid	IIII. 1,4-Dioxane
L. Nitrobenzene	EE. 2,6-Dinitrotoluene	XX. Di-n-butylphthalate	QQQ. Benzyl alcohol	JJJJ. Acetophenone
M. Isophorone	FF. 3-Nitroaniline	YY. Fluoranthene	RRR. Pyridine	KKKK. Atrazine
N. 2-Nitrophenol	GG. Acenaphthene	ZZ. Pyrene	SSS. Benzidine	LLLL. Benzaldehyde
O. 2,4-Dimethylphenol	HH. 2,4-Dinitrophenol	AAA. Butylbenzylphthalate	TTT. 1-Methylnaphthalene	MMMM. Caprolactam
P. Bis(2-chloroethoxy)methane	II. 4-Nitrophenol	BBB. 3,3'-Dichlorobenzidine	UUU. Benzo(b)thiophene	NNNN.
Q. 2,4-Dichlorophenol	JJ. Dibenzofuran	CCC. Benzo(a)anthracene	VVV. Benzonaphthothiophene	OOOO.
R. 1,2,4-Trichlorobenzene	KK. 2,4-Dinitrotoluene	DDD. Chrysene	WWW. Benzo(e)pyrene	PPPP.
S. Naphthalene	LL. Diethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	XXX. 2,6-Dimethylnaphthalene	QQQQ.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: SMMUSD
Collection Date: July 7, 2014
LDC Report Date: July 29, 2014
Matrix: Soil
Parameters: Chlorinated Pesticides
Validation Level: EPA Level III
Laboratory: TestAmerica, Inc.
Sample Delivery Group (SDG): 440-82503-1

Sample Identification

JC-SB-31-0-0.5	MH-SB-50-1.5-2
JC-SB-31-1.5-2	MH-SB-50-0-0.5-FD
JC-SB-32-0-0.5	MH-SB-51-0-0.5
JC-SB-32-1.5-2	MH-SB-51-1.5-2
JC-SB-32-1.5-2-FD	MH-SB-53-0-0.5
JC-SB-42-0-0.5	MH-SB-53-1.5-2
JC-SB-42-1.5-2	MH-SB-52-0-0.5
MH-SB-61-0-0.5	MH-SB-52-1.5-2
MH-SB-61-1.5-2	JC-SB-32-0-0.5MS
MH-SB-60-0-0.5	JC-SB-32-0-0.5MSD
MH-SB-60-1.5-2	MH-SB-50-1.5-2MS
MH-SB-59-0-0.5	MH-SB-50-1.5-2MSD
MH-SB-59-1.5-2	
MH-SB-58-0-0.5	
MH-SB-58-1.5-2	
MH-SB-57-0-0.5	
MH-SB-57-1.5-2	
MH-SB-56-0-0.5	
MH-SB-56-1.5-2	
MH-SB-50-0-0.5	

Introduction

This data review covers 32 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081A for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

The individual Endrin breakdowns were not within QC limits of 15.0%. Since the samples were all non-detected, no data were qualified.

The individual 4,4'-DDT breakdowns (%BD) were less than or equal to 15.0%.

III. Initial Calibration

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
MH-SB-51-1.5-2	RTX-CLPIB	Decachlorobiphenyl	40 (45-120)	All TCL compounds	J (all detects) UJ (all non-detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
MH-SB-50-1.5-2MS/MSD (MH-SB-50-1.5-2)	beta-BHC	39 (40-120)	-	-	J (all detects) UJ (all non-detects)	A
MH-SB-50-1.5-2MS/MSD (MH-SB-50-1.5-2)	Methoxychlor	242 (40-135)	141 (40-135)	54 (≤ 30)	J (all detects)	A
	4,4'-DDD	-	-	39 (≤ 30)	J (all detects)	
	Endrin aldehyde	-	-	44 (≤ 30)	J (all detects)	

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples JC-SB-32-1.5-2 and JC-SB-32-1.5-2-FD and samples MH-SB-50-0-0.5 and MH-SB-50-0-0.5-FD were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	JC-SB-32-1.5-2	JC-SB-32-1.5-2-FD	
4,4'-DDE	4.9U	16	200

SMMUSD**Chlorinated Pesticides - Data Qualification Summary - SDG 440-82503-1**

SDG	Sample	Compound	Flag	A or P	Reason
440-82503-1	MH-SB-51-1.5-2	All TCL compounds	J (all detects) UJ (all non-detects)	P	Surrogate spikes (%R)
440-82503-1	MH-SB-50-1.5-2	beta-BHC	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)
440-82503-1	MH-SB-50-1.5-2	Methoxychlor	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD)
440-82503-1	MH-SB-50-1.5-2	4,4'-DDD Endrin aldehyde	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD)

SMMUSD**Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 440-82503-1**

No Sample Data Qualified in this SDG

SMMUSD**Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG 440-82503-1**

No Sample Data Qualified in this SDG

LDC #: 32263A3a
 SDG #: 440-82503-1
 Laboratory: Test America Inc.

VALIDATION COMPLETENESS WORKSHEET Level III

Date: 7-28-14
 Page: 1 of 1
 Reviewer: SW
 2nd Reviewer: A

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/7/14
II.	GC Instrument Performance Check	SW	(see CCV Sheet)
III.	Initial calibration	A	≤ 20
IV.	Continuing calibration/ICV	A	CCV/ICV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LOS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation/RL/LOQ/LODs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	D = 4+5, 20+22*
XVI.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

* ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

Soil

1	JC-SB-31-0-0.5	11	3	MH-SB-60-1.5-2	21	2	MH-SB-50-1.5-2	31	2	MH-SB-50-1.5-2MS
2	JC-SB-31-1.5-2	12	3	MH-SB-59-0-0.5	22	2	MH-SB-50-0-0.5-FD	32	2	MH-SB-50-1.5-2MSD
3	JC-SB-32-0-0.5	13	3	MH-SB-59-1.5-2	23	1	MH-SB-51-0-0.5	33		
4	JC-SB-32-1.5-2	14	3	MH-SB-58-0-0.5	24	1	MH-SB-51-1.5-2	34		
5	JC-SB-32-1.5-2-FD	15	3	MH-SB-58-1.5-2	25	1	MH-SB-53-0-0.5	35		
6	2 JC-SB-42-0-0.5	16	3	MH-SB-57-0-0.5	26	1	MH-SB-53-1.5-2	36		
7	2 JC-SB-42-1.5-2	17	3	MH-SB-57-1.5-2	27	1	MH-SB-52-0-0.5	37		
8	2 MH-SB-61-0-0.5	18	3	MH-SB-56-0-0.5	28	1	MH-SB-52-1.5-2	38	1	MB440-193676
9	2 MH-SB-61-1.5-2	19	3	MH-SB-56-1.5-2	29	1	JC-SB-32-0-0.5MS	39	2	MB440-194027
10	2 MH-SB-60-0-0.5	20	3	MH-SB-50-0-0.5	30	1	JC-SB-32-0-0.5MSD	40	3	MB440-194607

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPA SW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. oxy-Chlordane
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Mirex
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK.
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL.
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM.
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes: _____

VALIDATION FINDINGS WORKSHEET

Continuing Calibration

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

Y/N N/A Were Evaluation mix standards run before initial calibration and before samples?

Y ☒ N/A Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard ($\leq 15.0\%$ for individual breakdowns)?

(Y) N N/A	Was at least one standard run daily to verify the working curve?

Y N N/A Did the continuing calibration standards meet the percent difference (%D) of <20.0%?

Level IV/D Only

Y N (N/A) Were the retention times for all calibrated compounds within their respective acceptance windows?

[illegible]

A. alpha-BHC	E. Heptachlor	I. Dieldrin	M. 4,4'-DDD	Q. Endrin ketone	U. Toxaphene	Y. Aroclor-1242	CC. 2,4'-DDD	GG. Chlordane
B. beta-BHC	F. Aldrin	J. 4,4'-DDE	N. Endosulfan sulfate	R. Endrin aldehyde	V. Aroclor-1016	Z. Aroclor-1248	DD. 2,4'-DDE	HH. Chlordane (Technical)
C. delta-BHC	G. Heptachlor epoxide	K. Endrin	O. 4,4'-DDT	S. alpha-Chlordane	W. Aroclor-1221	AA. Aroclor-1254	EE. 2,4'-DDT	
D. gamma-BHC	H. Endosulfan I	L. Endosulfan II	P. Methoxychlor	T. gamma-Chlordane	X. Aroclor-1232	BB. Aroclor-1260	FF. Hexachlorobenzene	

Surrogate Spikes

Reviewer: Sh

2nd Reviewer: A

Please see qualifications below for all questions answered "N". Not applicable questions are identified as N/A.

YN N/A Were surrogates spiked into all samples, standards and blanks?

Y/N/A Were all DCB surrogate recoveries within advisory QC limits on each column.

Level IV/D ONLY

Y N N/A Were surrogate retention times (RTs) on each column within the established RT windows for all samples, standards and blanks?

[illegible]

DCB = Decachlorobiphenyl

Comments:

Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1

Reviewer: Sm

2nd Reviewer:

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

2 N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

Q N N/A Was a MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Y ☒ N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

[illegible]

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: GC

☒ N N/A
☒ Y N/A

Were field duplicate pairs identified in this SDG?

Were target compounds detected in the field duplicate pairs?

Compound	Concentration (µg/kg)		RPD
	4	5	
J	49u	16	200

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: SMMUSD
Collection Date: July 7, 2014
LDC Report Date: July 29, 2014
Matrix: Soil
Parameters: Polychlorinated Biphenyls
Validation Level: EPA Level III
Laboratory: TestAmerica, Inc.
Sample Delivery Group (SDG): 440-82503-1

Sample Identification

JC-SB-31-0-0.5	MH-SB-50-1.5-2
JC-SB-31-1.5-2	MH-SB-50-0-0.5-FD
JC-SB-32-0-0.5	MH-SB-51-0-0.5
JC-SB-32-1.5-2	MH-SB-51-1.5-2
JC-SB-32-1.5-2-FD	MH-SB-53-0-0.5
JC-SB-42-0-0.5	MH-SB-53-1.5-2
JC-SB-42-1.5-2	MH-SB-52-0-0.5
MH-SB-61-0-0.5	MH-SB-52-1.5-2
MH-SB-61-1.5-2	JC-SB-32-0-0.5MS
MH-SB-60-0-0.5	JC-SB-32-0-0.5MSD
MH-SB-60-1.5-2	MH-SB-50-1.5-2MS
MH-SB-59-0-0.5	MH-SB-50-1.5-2MSD
MH-SB-59-1.5-2	
MH-SB-58-0-0.5	
MH-SB-58-1.5-2	
MH-SB-57-0-0.5	
MH-SB-57-1.5-2	
MH-SB-56-0-0.5	
MH-SB-56-1.5-2	
MH-SB-50-0-0.5	

Introduction

This data review covers 32 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

The percent difference (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
MH-SB-58-0-0.5	RTX-CLPII	Decachlorobiphenyl	124 (45-120)	All TCL compounds	J (all detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples JC-SB-32-1.5-2 and JC-SB-32-1.5-2-FD and samples MH-SB-50-0-0.5 and MH-SB-50-0-0.5-FD were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples.

SMMUSD**Polychlorinated Biphenyls - Data Qualification Summary - SDG 440-82503-1**

SDG	Sample	Compound	Flag	A or P	Reason
440-82503-1	MH-SB-58-0-0.5	All TCL compounds	J (all detects)	P	Surrogate spikes (%R)

SMMUSD**Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 440-82503-1**

No Sample Data Qualified in this SDG

SMMUSD**Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG 440-82503-1**

No Sample Data Qualified in this SDG

LDC #: 32263A3b
SDG #: 440-82503-1
Laboratory: Test America Inc.

VALIDATION COMPLETENESS WORKSHEET Level III

Date: 7-29-14
Page: 1 of 1
Reviewer: SM
2nd Reviewer: A

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/7/14
II.	GC Instrument Performance Check	N	
III.	Initial calibration	A	$\leq 20\%$
IV.	Continuing calibration/ICV	A	CCV/ICV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation/RL/LOQ/LODs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	ND	D=4+5, 20+22
XVI.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	JC-SB-31-0-0.5	11	MH-SB-60-1.5-2	21	MH-SB-50-1.5-2	31	MH-SB-50-1.5-2MS
2	JC-SB-31-1.5-2	12	MH-SB-59-0-0.5	22	MH-SB-50-0-0.5-FD	32	MH-SB-50-1.5-2MSD
3	JC-SB-32-0-0.5	13	MH-SB-59-1.5-2	23	MH-SB-51-0-0.5	33	
4	JC-SB-32-1.5-2	14	MH-SB-58-0-0.5	24	MH-SB-51-1.5-2	34	
5	JC-SB-32-1.5-2-FD	15	MH-SB-58-1.5-2	25	MH-SB-53-0-0.5	35	
6	JC-SB-42-0-0.5	16	MH-SB-57-0-0.5	26	MH-SB-53-1.5-2	36	
7	JC-SB-42-1.5-2	17	MH-SB-57-1.5-2	27	MH-SB-52-0-0.5	37	NB 440-193419
8	MH-SB-61-0-0.5	18	MH-SB-56-0-0.5	28	MH-SB-52-1.5-2	38	NB 440-193676
9	MH-SB-61-1.5-2	19	MH-SB-56-1.5-2	29	JC-SB-32-0-0.5MS	39	NB 440-194027
10	MH-SB-60-0-0.5	20	MH-SB-50-0-0.5	30	JC-SB-32-0-0.5MSD	40	NB 440-194607

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: SMMUSD
Collection Date: July 7, 2014
LDC Report Date: July 31, 2014
Matrix: Soil
Parameters: Metals
Validation Level: EPA Level III
Laboratory: TestAmerica, Inc.
Sample Delivery Group (SDG): 440-82503-1

Sample Identification

JC-SB-58-4.5-5 JC-SB-32-0-0.5MSD
JC-SB-58-14.5-15
JC-SB-58-24.5-25
JC-SB-58-34.5-35
JC-SB-59-4.5-5
JC-SB-59-14.5-15
JC-SB-59-24.5-25
JC-SB-59-34.5-35
JC-SB-31-0-0.5
JC-SB-31-1.5-2
JC-SB-32-0-0.5
JC-SB-32-1.5-2
JC-SB-32-1.5-2-FD
JC-SB-42-0-0.5
JC-SB-42-1.5-2
BKRD-1-0-0.5
BKRD-2-0-0.5
BKRD-3-0-0.5
BKRD-1-0-0.5
JC-SB-32-0-0.5MS

Introduction

This data review covers 21 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B and 7471A for Metals. The metals analyzed were Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

The initial and continuing calibrations were performed at the required frequency.

The calibration standards criteria were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No metal contaminants were found in the preparation blanks.

No field blanks were identified in this SDG.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
JC-SB-32-0-0.5MS/MSD (JC-SB-58-4.5-5 JC-SB-58-14.5-15 JC-SB-58-24.5-25 JC-SB-58-34.5-35 JC-SB-59-4.5-5 JC-SB-59-14.5-15 JC-SB-59-24.5-25 JC-SB-59-34.5-35 BKRD-1-0-0.5 BKRD-2-0-0.5 BKRD-3-0-0.5 BKRD-1-0-0.5)	Antimony	32 (75-125)	38 (75-125)	-	J (all detects) UJ (all non-detects)	A

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. ICP Serial Dilution

ICP serial dilution results were not provided and therefore were not reviewed.

IX. Sample Result Verification

Raw data were not reviewed for this SDG.

X. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XI. Field Duplicates

Samples JC-SB-32-1.5-2 and JC-SB-32-1.5-2-FD were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD
	JC-SB-32-1.5-2	JC-SB-32-1.5-2-FD	
Lead	2.4	2.6	40

SMMUSD**Metals - Data Qualification Summary - SDG 440-82503-1**

SDG	Sample	Analyte	Flag	A or P	Reason
440-82503-1	JC-SB-58-4.5-5 JC-SB-58-14.5-15 JC-SB-58-24.5-25 JC-SB-58-34.5-35 JC-SB-59-4.5-5 JC-SB-59-14.5-15 JC-SB-59-24.5-25 JC-SB-59-34.5-35 BKRD-1-0-0.5 BKRD-2-0-0.5 BKRD-3-0-0.5 BKRD-1-0-0.5	Antimony	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)

SMMUSD**Metals - Laboratory Blank Data Qualification Summary - SDG 440-82503-1**

No Sample Data Qualified in this SDG

SMMUSD**Metals - Field Blank Data Qualification Summary - SDG 440-82503-1**

No Sample Data Qualified in this SDG

LDC #: 32263A4
 SDG #: 440-82503-1
 Laboratory: Test America Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 7/18/14

Page: 1 of 1

Reviewer: KL

2nd Reviewer: ON

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/7/14
II.	ICP/MS Tune	N	
III.	Calibration	A	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	A	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	ICP Serial Dilution	N	
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	SW	(12, 13)
XIV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: 8, 1

1	JC-SB-58-4.5-5	11	JC-SB-32-0-0.5	21	JC-SB-32-0-0.5MSD	31	
2	JC-SB-58-14.5-15	12	JC-SB-32-1.5-2	22		32	
3	JC-SB-58-24.5-25	13	JC-SB-31-1.5-2-FD	23		33	
4	JC-SB-58-34.5-35	14	JC-SB-42-0-0.5	24		34	
5	JC-SB-59-4.5-5	15	JC-SB-42-1.5-2	25		35	
6	JC-SB-59-14.5-15	16	BKRD-1-0-0.5	26		36	
7	JC-SB-59-24.5-25	17	BKRD-2-0-0.5	27		37	
8	JC-SB-59-34.5-35	18	BKRD-3-0-0.5	28		38	
9	JC-SB-31-0-0.5	19	BKRD-1-0-0.5	29		39	
10	JC-SB-31-1.5-2	20	JC-SB-32-0-0.5MS	30		40	

Notes: _____

LDC#: 32263A4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: KK
2nd Reviewer: 

METHOD: Metals (EPA Method 6010B/7471A)

Analyte	Concentration (mg/kg)		RPD
	12	13	
Lead	2.4	3.6	40

\\LDCFILESERVER\Validation\FIELD DUPLICATES\FD_inorganic\32263A4.wpd

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: SMMUSD
Collection Date: July 7, 2014
LDC Report Date: July 29, 2014
Matrix: Soil
Parameters: Gasoline Range Organics
Validation Level: EPA Level III
Laboratory: TestAmerica, Inc.
Sample Delivery Group (SDG): 440-82503-1

Sample Identification

JC-SB-58-4.5-5
JC-SB-58-14.5-15
JC-SB-58-24.5-25
JC-SB-58-34.5-35
JC-SB-59-4.5-5
JC-SB-59-14.5-15
JC-SB-59-24.5-25
JC-SB-59-34.5-35

Introduction

This data review covers 8 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Gasoline Range Organics.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

III. Calibration Verification

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No gasoline range organic contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
JC-SB-59-4.5-5	4-Bromofluorobenzene	53 (65-140)	All TCL compounds	J (all detects) UJ (all non-detects)	P

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

Raw data were not reviewed for this SDG.

IX. Compound Quantitation

Raw data were not reviewed for this SDG.

X. System Performance

Raw data were not reviewed for this SDG.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

SMMUSD**Gasoline Range Organics - Data Qualification Summary - SDG 440-82503-1**

SDG	Sample	Compound	Flag	A or P	Reason
440-82503-1	JC-SB-59-4.5-5	All TCL compounds	J (all detects) UJ (all non-detects)	P	Surrogate spikes (%R)

SMMUSD**Gasoline Range Organics - Laboratory Blank Data Qualification Summary - SDG 440-82503-1**

No Sample Data Qualified in this SDG

SMMUSD**Gasoline Range Organics - Field Blank Data Qualification Summary - SDG 440-82503-1**

No Sample Data Qualified in this SDG

LDC #: 32263A7
 SDG #: 440-82503-1
 Laboratory: Test America, Inc.

VALIDATION COMPLETENESS WORKSHEET Level III

Date: 7-28-14
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: Gasoline Range Organics (EPA SW846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/7/14
II.	Initial calibration	A	≤ 20
III.	Calibration verification/ICV	A	CV/ICV ≤ 20
IV.	Blanks	A	
V.	Surrogate recovery	SW	
VI.	Matrix spike/Matrix spike duplicates	N	
VII.	Laboratory control samples	A	LCS/LCSD
VIII.	Target compound identification	N	
IX.	Compound quantitation/RL/LOQ/LODs	N	
X.	System Performance	N	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: Soil

1	JC-SB-58-4.5-5	11		21		31	
2	JC-SB-58-14.5-15	12		22		32	
3	JC-SB-58-24.5-25	13		23		33	
4	JC-SB-58-34.5-35	14		24		34	
5	JC-SB-59-4.5-5	15		25		35	
6	JC-SB-59-14.5-15	16		26		36	
7	JC-SB-59-24.5-25	17		27		37	
8	JC-SB-59-34.5-35	18		28		38	
9		19	MB440-192557	29		39	
10		20	MB440-192554	30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET

Surrogate Recovery

METHOD: X GC HPLC

Are surrogates required by the method? Yes X or No .

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were surrogates spiked into all samples and blanks?

Y (N) N/A Did all surrogate recoveries (%R) meet the QC limits?

[illegible]

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene		
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Triphenyltin		
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin		
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate		
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: SMMUSD
Collection Date: July 7, 2014
LDC Report Date: July 29, 2014
Matrix: Soil
Parameters: Diesel Range Organics
Validation Level: EPA Level III
Laboratory: TestAmerica, Inc.
Sample Delivery Group (SDG): 440-82503-1

Sample Identification

JC-SB-58-4.5-5
JC-SB-58-14.5-15
JC-SB-58-24.5-25
JC-SB-58-34.5-35
JC-SB-59-4.5-5
JC-SB-59-14.5-15
JC-SB-59-24.5-25
JC-SB-59-34.5-35

Introduction

This data review covers 8 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Diesel Range Organics.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

III. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No diesel range organic contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
JC-SB-59-24.5-25	n-Octacosane	38 (40-140)	All TCL compounds	J (all detects) UJ (all non-detects)	P

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

Raw data were not reviewed for this SDG.

IX. Compound Quantitations

Raw data were not reviewed for this SDG.

X. System Performance

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

SMMUSD**Diesel Range Organics - Data Qualification Summary - SDG 440-82503-1**

SDG	Sample	Compound	Flag	A or P	Reason
440-82503-1	JC-SB-59-24.5-25	All TCL compounds	J (all detects) UJ (all non-detects)	P	Surrogate spikes (%R)

SMMUSD**Diesel Range Organics - Laboratory Blank Data Qualification Summary - SDG 440-82503-1**

No Sample Data Qualified in this SDG

SMMUSD**Diesel Range Organics - Field Blank Data Qualification Summary - SDG 440-82503-1**

No Sample Data Qualified in this SDG

LDC #: 32263A8
 SDG #: 440-82503-1
 Laboratory: Test America, Inc.

VALIDATION COMPLETENESS WORKSHEET Level III

Date: 7-28-14
 Page: 1 of 1
 Reviewer: *[Signature]*
 2nd Reviewer: *[Signature]*

METHOD: GC Diesel Range Organics (EPA SW846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/7/14
II.	Initial calibration	A	≤ 20
III.	Calibration verification/ICV	A	CCV/ICV ≤ 20
IV.	Blanks	A	
V.	Surrogate recovery	SW	
VI.	Matrix spike/Matrix spike duplicates	N	C.S.
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	N	
IX.	Compound quantitation/RL/LOQ/LODs	N	
X.	System Performance	N	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: *Soi*

1	JC-SB-58-4.5-5	11		21		31	
2	JC-SB-58-14.5-15	12		22		32	
3	JC-SB-58-24.5-25	13		23		33	
4	JC-SB-58-34.5-35	14		24		34	
5	JC-SB-59-4.5-5	15		25		35	
6	JC-SB-59-14.5-15	16		26		36	
7	JC-SB-59-24.5-25	17		27		37	
8	JC-SB-59-34.5-35	18		28		38	
9		19 ¹	MB440-192829	29		39	
10		20 ²	MB440-193643	30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET

Surrogate Recovery

METHOD: ~~GC~~ HPLC

Are surrogates required by the method? Yes X or No .

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

☒ N N/A Were surrogates spiked into all samples and blanks?

Y (N) N/A	Did all surrogate recoveries (%R) meet the QC limits?

[illegible]

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	n - Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene		
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Triphenyltin		
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin		
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate		
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: SMMUSD
Collection Date: July 7, 2014
LDC Report Date: July 29, 2014
Matrix: Soil
Parameters: Organophosphorus Pesticides
Validation Level: EPA Level III
Laboratory: TestAmerica, Inc.
Sample Delivery Group (SDG): 440-82503-1

Sample Identification

JC-SB-31-0-0.5	MH-SB-50-1.5-2
JC-SB-31-1.5-2	MH-SB-50-0-0.5-FD
JC-SB-32-0-0.5	MH-SB-51-0-0.5
JC-SB-32-1.5-2	MH-SB-51-1.5-2
JC-SB-32-1.5-2-FD	MH-SB-53-0-0.5
JC-SB-42-0-0.5	MH-SB-53-1.5-2
JC-SB-42-1.5-2	MH-SB-52-0-0.5
MH-SB-61-0-0.5	MH-SB-52-1.5-2
MH-SB-61-1.5-2	JC-SB-32-0-0.5MS
MH-SB-60-0-0.5	JC-SB-32-0-0.5MSD
MH-SB-60-1.5-2	MH-SB-50-1.5-2MS
MH-SB-59-0-0.5	MH-SB-50-1.5-2MSD
MH-SB-59-1.5-2	
MH-SB-58-0-0.5	
MH-SB-58-1.5-2	
MH-SB-57-0-0.5	
MH-SB-57-1.5-2	
MH-SB-56-0-0.5	
MH-SB-56-1.5-2	
MH-SB-50-0-0.5	

Introduction

This data review covers 32 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8141A for Organophosphorus Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

III. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
7/14/14	J0740208.D	RTX-OPP1	Dichlorvos	38.9	JC-SB-31-0-0.5 JC-SB-31-1.5-2 JC-SB-32-0-0.5 JC-SB-32-0-0.5MS JC-SB-32-0-0.5MSD MB180-111242	Dichlorvos	J (all detects) UJ (all non-detects)	A
7/14/14	J0740208.D	RTX-OPP2	Dichlorvos Fensulfothion Azinphos-methyl Coumaphos Demeton-S	46.8 22.4 20.9 22.9 25.5	JC-SB-31-0-0.5 JC-SB-31-1.5-2 JC-SB-32-0-0.5 JC-SB-32-0-0.5MS JC-SB-32-0-0.5MSD MB180-111242	Dichlorvos Fensulfothion Azinphos-methyl Coumaphos Demeton, Total	J (all detects) UJ (all non-detects)	A
7/14/14	J0740219.D	RTX-OPP1	Dichlorvos	38.9	JC-SB-32-1.5-2 JC-SB-32-1.5-2-FD JC-SB-42-0-0.5 JC-SB-42-1.5-2 MH-SB-61-0-0.5 MH-SB-61-1.5-2 MH-SB-60-0-0.5 MH-SB-60-1.5-2 MH-SB-59-0-0.5	Dichlorvos	J (all detects) UJ (all non-detects)	A

Date	Standard	Column	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
7/14/14	J0740219.D	RTX-OPP2	Dichlorvos Fensulfothion Azinphos-methyl Coumaphos Demeton-S	47.0 26.3 25.7 25.6 27.1	JC-SB-32-1.5-2 JC-SB-32-1.5-2-FD JC-SB-42-0-0.5 JC-SB-42-1.5-2 MH-SB-61-0-0.5 MH-SB-61-1.5-2 MH-SB-60-0-0.5 MH-SB-60-1.5-2 MH-SB-59-0-0.5	Dichlorvos Fensulfothion Azinphos-methyl Coumaphos Demeton, Total	J (all detects) UJ (all non-detects)	A
7/14/14	J0740230.D	RTX-OPP1	Dichlorvos	37.7	MH-SB-59-1.5-2 MH-SB-58-0-0.5 MH-SB-58-1.5-2 MH-SB-57-0-0.5 MH-SB-57-1.5-2 MH-SB-56-0-0.5 MH-SB-56-1.5-2 MH-SB-50-0-0.5	Dichlorvos	J (all detects) UJ (all non-detects)	A
7/14/14	J0740230.D	RTX-OPP2	Dichlorvos Fensulfothion Azinphos-methyl Coumaphos Demeton-S	44.5 22.5 24.8 23.6 26.8	MH-SB-59-1.5-2 MH-SB-58-0-0.5 MH-SB-58-1.5-2 MH-SB-57-0-0.5 MH-SB-57-1.5-2 MH-SB-56-0-0.5 MH-SB-56-1.5-2 MH-SB-50-0-0.5	Dichlorvos Fensulfothion Azinphos-methyl Coumaphos Demeton, Total	J (all detects) UJ (all non-detects)	A
7/16/14	J0740275.D	RTX-OPP1	Dichlorvos	30.0	MB180-111571	Dichlorvos	J (all detects) UJ (all non-detects)	A
7/16/14	J0740275.D	RTX-OPP2	Dichlorvos Fensulfothion Demeton-S	38.6 24.0 21.0	MB180-111571	Dichlorvos Fensulfothion Demeton, Total	J (all detects) UJ (all non-detects)	A
7/16/14	J0740284.D	RTX-OPP1	Dichlorvos	32.2	MH-SB-50-1.5-2	Dichlorvos	J (all detects) UJ (all non-detects)	A
7/16/14	J0740284.D	RTX-OPP2	Dichlorvos Fensulfothion Azinphos-methyl Demeton-S	39.6 28.9 21.2 22.4	MH-SB-50-1.5-2	Dichlorvos Fensulfothion Azinphos-methyl Demeton, Total	J (all detects) UJ (all non-detects)	A
7/16/14	J0740295.D	RTX-OPP1	Dichlorvos	34.8	MH-SB-50-0-0.5-FD MH-SB-51-0-0.5 MH-SB-51-1.5-2 MH-SB-53-0-0.5 MH-SB-53-1.5-2 MH-SB-52-0-0.5 MH-SB-52-1.5-2 MH-SB-50-1.5-2MS MH-SB-50-1.5-2MSD	Dichlorvos	J (all detects) UJ (all non-detects)	A

Date	Standard	Column	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
7/16/14	J0740295.D	RTX-OPP2	Dichlorvos Fensulfothion Azinphos-methyl Demeton-S	42.5 30.5 20.2 22.7	MH-SB-50-0-0.5-FD MH-SB-51-0-0.5 MH-SB-51-1.5-2 MH-SB-53-0-0.5 MH-SB-53-1.5-2 MH-SB-52-0-0.5 MH-SB-52-1.5-2 MH-SB-50-1.5-2MS MH-SB-50-1.5-2MSD	Dichlorvos Fensulfothion Azinphos-methyl Demeton, Total	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Affected Compounds	Flag	A or P
7/9/14	J0740060.D	RTX-OPP2	Demeton-S	22.2	All samples in SDG 440-82503-1	Demeton, Total	J (all detects) UJ (all non-detects)	A

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No organophosphorus pesticide contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
MH-SB-53-0-0.5	RTX-OPP2	Tributyl phosphate	43 (47-130)	All TCL compounds	J (all detects) UJ (all non-detects)	P
JC-SB-32-0-0.5	RTX-OPP1	Triphenyl phosphate	126 (55-125)	All TCL compounds	J (all detects)	A
JC-SB-32-0-0.5	RTX-OPP2	Triphenyl phosphate	132 (55-125)	All TCL compounds	J (all detects)	A

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS180-111242	Thionazin	139 (48-126)	JC-SB-31-0-0.5 JC-SB-31-1.5-2 JC-SB-32-0-0.5 JC-SB-32-1.5-2 JC-SB-32-1.5-2-FD JC-SB-42-0-0.5 JC-SB-42-1.5-2 MH-SB-61-0-0.5 MH-SB-61-1.5-2 MH-SB-60-0-0.5 MH-SB-60-1.5-2 MH-SB-59-0-0.5 MH-SB-59-1.5-2 MH-SB-58-0-0.5 MH-SB-58-1.5-2 MH-SB-57-0-0.5 MH-SB-57-1.5-2 MH-SB-56-0-0.5 MH-SB-56-1.5-2 MH-SB-50-0-0.5	J (all detects)	P

VIII. Target Compound Identification

Raw data were not reviewed for this SDG.

IX. Compound Quantitation

Raw data were not reviewed for this SDG.

X. System Performance

Raw data were not reviewed for this SDG.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples JC-SB-32-1.5-2 and JC-SB-32-1.5-2-FD and samples MH-SB-50-0-0.5 and MH-SB-50-0-0.5-FD were identified as field duplicates. No organophosphorus pesticides were detected in any of the samples.

SMMUSD
Organophosphorus Pesticides - Data Qualification Summary - SDG 440-82503-1

SDG	Sample	Compound	Flag	A or P	Reason
440-82503-1	JC-SB-31-0-0.5 JC-SB-31-1.5-2 JC-SB-32-0-0.5 JC-SB-32-1.5-2 JC-SB-32-1.5-2-FD JC-SB-42-0-0.5 JC-SB-42-1.5-2 MH-SB-61-0-0.5 MH-SB-61-1.5-2 MH-SB-60-0-0.5 MH-SB-60-1.5-2 MH-SB-59-0-0.5 MH-SB-59-1.5-2 MH-SB-58-0-0.5 MH-SB-58-1.5-2 MH-SB-57-0-0.5 MH-SB-57-1.5-2 MH-SB-56-0-0.5 MH-SB-56-1.5-2 MH-SB-50-0-0.5	Dichlorvos Demeton, Total Fensulfothion Azinphos-methyl Coumaphos	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
440-82503-1	MH-SB-50-1.5-2 MH-SB-50-0-0.5-FD MH-SB-51-0-0.5 MH-SB-51-1.5-2 MH-SB-53-0-0.5 MH-SB-53-1.5-2 MH-SB-52-0-0.5 MH-SB-52-1.5-2	Dichlorvos Demeton, Total Fensulfothion Azinphos-methyl	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
440-82503-1	JC-SB-31-0-0.5 JC-SB-31-1.5-2 JC-SB-32-0-0.5 JC-SB-32-1.5-2 JC-SB-32-1.5-2-FD JC-SB-42-0-0.5 JC-SB-42-1.5-2 MH-SB-61-0-0.5 MH-SB-61-1.5-2 MH-SB-60-0-0.5 MH-SB-60-1.5-2 MH-SB-59-0-0.5 MH-SB-59-1.5-2 MH-SB-58-0-0.5 MH-SB-58-1.5-2 MH-SB-57-0-0.5 MH-SB-57-1.5-2 MH-SB-56-0-0.5 MH-SB-56-1.5-2 MH-SB-50-0-0.5 MH-SB-50-1.5-2 MH-SB-50-0-0.5-FD MH-SB-51-0-0.5 MH-SB-51-1.5-2 MH-SB-53-0-0.5 MH-SB-53-1.5-2 MH-SB-52-0-0.5 MH-SB-52-1.5-2	Demeton, Total	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D)

SDG	Sample	Compound	Flag	A or P	Reason
440-82503-1	MH-SB-53-0-0.5	All TCL compounds	J (all detects) UJ (all non-detects)	P	Surrogate spikes (%R)
440-82503-1	JC-SB-32-0-0.5	All TCL compounds	J (all detects)	A	Surrogate spikes (%R)
440-82503-1	JC-SB-31-0-0.5 JC-SB-31-1.5-2 JC-SB-32-0-0.5 JC-SB-32-1.5-2 JC-SB-32-1.5-2-FD JC-SB-42-0-0.5 JC-SB-42-1.5-2 MH-SB-61-0-0.5 MH-SB-61-1.5-2 MH-SB-60-0-0.5 MH-SB-60-1.5-2 MH-SB-59-0-0.5 MH-SB-59-1.5-2 MH-SB-58-0-0.5 MH-SB-58-1.5-2 MH-SB-57-0-0.5 MH-SB-57-1.5-2 MH-SB-56-0-0.5 MH-SB-56-1.5-2 MH-SB-50-0-0.5	Thionazin	J (all detects)	P	Laboratory control samples (%R)

SMMUSD

Organophosphorus Pesticides - Laboratory Blank Data Qualification Summary - SDG 440-82503-1

No Sample Data Qualified in this SDG

SMMUSD

Organophosphorus Pesticides - Field Blank Data Qualification Summary - SDG 440-82503-1

No Sample Data Qualified in this SDG

LDC #: 32263A17
 SDG #: 440-82503-1
 Laboratory: Test America Inc.

VALIDATION COMPLETENESS WORKSHEET Level III

Date: 7-7-14
 Page: 1 of 1
 Reviewer: Ch
 2nd Reviewer: A

METHOD: GC Organophosphorus Pesticides (EPA SW 846 Method 8141A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/7/14
II	Initial calibration	A	$\leq 20/\sqrt{r^2}$
III.	Calibration verification/ICV	SW	CCV/ICV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	SW	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	SW	LCS
VIII.	Target compound identification	N	
IX.	Compound quantitation/RL/LOQ/LODs	N	
X.	System Performance	N	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	D = 4+5, 20+22
XIII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: Soil

1	JC-SB-31-0-0.5	11	MH-SB-60-1.5-2	21	MH-SB-50-1.5-2	31	MH-SB-50-1.5-2MS
2	JC-SB-31-1.5-2	12	MH-SB-59-0-0.5	22	MH-SB-50-0-0.5-FD	32	MH-SB-50-1.5-2MSD
3	JC-SB-32-0-0.5	13	MH-SB-59-1.5-2	23	MH-SB-51-0-0.5	33	
4	JC-SB-32-1.5-2	14	MH-SB-58-0-0.5	24	MH-SB-51-1.5-2	34	
5	JC-SB-32-1.5-2-FD	15	MH-SB-58-1.5-2	25	MH-SB-53-0-0.5	35	
6	JC-SB-42-0-0.5	16	MH-SB-57-0-0.5	26	MH-SB-53-1.5-2	36	
7	JC-SB-42-1.5-2	17	MH-SB-57-1.5-2	27	MH-SB-52-0-0.5	37	MB180-111242
8	MH-SB-61-0-0.5	18	MH-SB-56-0-0.5	28	MH-SB-52-1.5-2	38	MB180-111571
9	MH-SB-61-1.5-2	19	MH-SB-56-1.5-2	29	JC-SB-32-0-0.5MS	39	MB180-
10	MH-SB-60-0-0.5	20	MH-SB-50-0-0.5	30	JC-SB-32-0-0.5MSD	40	

Notes: _____

VALIDATION FINDINGS WORKSHEET

METHOD: GC Organophosphorus Pesticides

A. Dichlorvos	K. Disulfoton	U. Tokuthion	EE. Def		
B. Mevinphos	L. Parathion-methyl	V. Fensulfothion	FF. Prowl		
C. Demeton-O	M. Ronnel	W. Bolstar	GG. Ethion		
D. Demeton-S	N. Malathion	X. EPN	HH. Tetrachlorvinphos		
E. Ethoprop	O. Chlorpyrifos	Y. Azinphos-methyl	II. Sulprofos		
F. Naled	P. Fenthion	Z. Coumaphos			
G. Sulfotepp	Q. Parathion-ethyl	AA. Parathion			
H. Phorate	R. Trichloronate	BB. Famphur			
I. Dimethoate	S. Merphos	CC. Phosmet			
J. Diazinon	T. Stirophos	DD. Trifluralin			

LDC #: 32263A17

VALIDATION FINDINGS WORKSHEET **Continuing Calibration**

Page: 1 of 2

Reviewer: Ym2nd Reviewer: CMETHOD: X GC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were continuing calibration standards analyzed at the required frequencies?Y N N/A Did the continuing calibration standards meet the %D validation criteria of $\leq 20.0\%$?**Level IV Only**Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Column / Detector	Compound	%D (Limit ≤ 20.0)	RT (Limits)	Associated Samples	Qualifications
ICV	07/09/14	J0740060.D	RTX-OPP2	D	22.2	()	all	J/UJ/A (Demeton, Total)
						()		
CCV	07/14/14	J0740208.D	RTX-OPP1	A	38.9	()	1-3, 29,30, MB180-111242	J/UJ/A
			RTX-OPP2	A	46.8	()		J/UJ/A
				D	25.5	()		J/UJ/A (Demeton, Total)
				V	22.4	()		J/UJ/A
				Y	20.9	()		J/UJ/A
				Z	22.9	()		J/UJ/A
						()		
CCV	07/14/14	J0740219.D	RTX-OPP1	A	38.9	()	4-12	J/UJ/A
			RTX-OPP2	A	47.0	()		J/UJ/A
				D	27.1	()		J/UJ/A (Demeton, Total)
				V	26.3	()		J/UJ/A
				Y	25.7	()		J/UJ/A
				Z	25.6	()		J/UJ/A
						()		
CCV	07/14/14	J0740230.D	RTX-OPP1	A	37.7	()	13-20	J/UJ/A
			RTX-OPP2	A	44.5	()		J/UJ/A
				D	26.8	()		J/UJ/A (Demeton, Total)
				V	22.5	()		J/UJ/A
				Y	24.8	()		J/UJ/A
				Z	23.6	()		J/UJ/A
						()		

LDC #: 32263A17

VALIDATION FINDINGS WORKSHEET **Continuing Calibration**

Page: 2 of 2
Reviewer: gn
2nd Reviewer: 4

METHOD: X GC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were continuing calibration standards analyzed at the required frequencies?Y N N/A Did the continuing calibration standards meet the %D validation criteria of $\leq 20.0\%$?**Level IV Only**Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Column / Detector	Compound	%D (Limit ≤ 20.0)	RT (Limits)	Associated Samples	Qualifications
CCV	07/16/14	J0740275.D	RTX-OPP1	A	30.0	()	MB180-111571	J/UJ/A
			RTX-OPP2	A	38.6	()		J/UJ/A
				D	21.0	()		J/UJ/A (Demeton, Total)
				V	24.0	()		J/UJ/A
						()		
CCV	07/16/14	J0740284.D	RTX-OPP1	A	32.2	()	21	J/UJ/A
			RTX-OPP2	A	39.6	()		J/UJ/A
				D	22.4	()		J/UJ/A (Demeton, Total)
				V	28.9	()		J/UJ/A
				Y	21.2	()		J/UJ/A
						()		
CCV	07/16/14	J0740295.D	RTX-OPP1	A	34.8	()	22-28, 31, 32	J/UJ/A
			RTX-OPP2	A	42.5	()		J/UJ/A
				D	22.7	()		J/UJ/A (Demeton, Total)
				V	30.5	()		J/UJ/A
				Y	20.2	()		J/UJ/A
						()		
						()		
						()		
						()		
						()		
						()		
						()		

Surrogate Recovery

Reviewer: 

2nd Reviewer: 

METHOD: GC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all surrogate %R within QC limits?

Y ~~N~~ N/A	If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?

[illegible]

TBPH = Tributyl phosphate
TAP = Triphenyl phosphate

(Sample 3 has MS/MSD)

... 22052151 +

Reviewer: Th

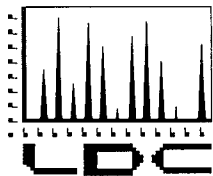
2nd Reviewer: _____

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a blank spike analyzed for each matrix or whenever a sample extraction was performed?

Y N N/A Were the blank spike percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

T = Thionazin



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

ENVIRON International Corporation
18100 Von Karman Avenue Ste. 600
Irvine, CA 92612
Attn: Ms. Safaa Dergham
CC: J. Arblaster & D. Rowe

August 4, 2014

SUBJECT: SMMUSD Malibu, Data Validation

Dear Ms. Dergham

Enclosed is the final validation report for the fractions listed below. This SDG was received on July 28, 2014. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #32274:

SDG #

Fraction

440-82809-1

Semivolatiles, Chlorinated Pesticides, Polychlorinated Biphenyls, Metals, Gasoline Range Organics, Diesel Range Organics

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Andrew Kong
Project Manager/Senior Chemist

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: SMMUSD
Collection Date: July 8, 2014
LDC Report Date: July 29, 2014
Matrix: Soil
Parameters: Semivolatiles
Validation Level: EPA Level III
Laboratory: TestAmerica, Inc.
Sample Delivery Group (SDG): 440-82809-1

Sample Identification

JC-SB-62-4.5-5
JC-SB-62-14.5-15
JC-SB-62-24.5-25
JC-SB-62-34.5-35
JC-SB-62-39.5-40

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the validation criteria of less than or equal to 20.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
7/10/14	Benzidine	26.5	JC-SB-62-4.5-5 JC-SB-62-14.5-15 JC-SB-62-34.5-35	J (all detects) UJ (all non-detects)	A
7/14/14	3-Nitroaniline 4-Nitroaniline	24.9 21.9	JC-SB-62-24.5-25 JC-SB-62-39.5-40	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
6/23/14	Benzidine	125.6	JC-SB-62-4.5-5 JC-SB-62-14.5-15 JC-SB-62-34.5-35	J (all detects) UJ (all non-detects)	A
7/8/14	Benzidine	85.0	JC-SB-62-24.5-25 JC-SB-62-39.5-40 MB440-193212	J (all detects) UJ (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

SMMUSD**Semivolatiles - Data Qualification Summary - SDG 440-82809-1**

SDG	Sample	Compound	Flag	A or P	Reason
440-82809-1	JC-SB-62-4.5-5 JC-SB-62-14.5-15 JC-SB-62-34.5-35	Benzidine	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
440-82809-1	JC-SB-62-24.5-25 JC-SB-62-39.5-40	3-Nitroaniline 4-Nitroaniline	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
440-82809-1	JC-SB-62-4.5-5 JC-SB-62-14.5-15 JC-SB-62-34.5-35 JC-SB-62-24.5-25 JC-SB-62-39.5-40	Benzidine	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D)

SMMUSD**Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 440-82809-1**

No Sample Data Qualified in this SDG

SMMUSD**Semivolatiles - Field Blank Data Qualification Summary - SDG 440-82809-1**

No Sample Data Qualified in this SDG

LDC #: 32274A2a **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: 440-82809-1 **Level III**
 Laboratory: Test America, Inc.

Date: 7-29-14
 Page: 1 of 1
 Reviewer: on
 2nd Reviewer: SM

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/8/14
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	$\leq 30/15/r^2$
IV.	Continuing calibration/ICV	SW	$CCV/ICV \leq 20$
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	CS
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/RL/LOQ/LODs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: Soil

1	JC-SB-62-4.5-5	11		21		31	
2	JC-SB-62-14.5-15	12		22		32	
3	JC-SB-62-24.5-25	13		23		33	
4	JC-SB-62-34.5-35	14		24		34	
5	JC-SB-62-39.5-40	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20	MB440-193212	30		40	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	T. 4-Chloroaniline	MM. 4-Chlorophenyl-phenyl ether	FFF. Di-n-octylphthalate	YYY. 2,3,5-Trimethylnaphthalene
B. Bis (2-chloroethyl) ether	U. Hexachlorobutadiene	NN. Fluorene	GGG. Benzo(b)fluoranthene	ZZZ. Perylene
C. 2-Chlorophenol	V. 4-Chloro-3-methylphenol	OO. 4-Nitroaniline	HHH. Benzo(k)fluoranthene	AAAA. Dibenzothiophene
D. 1,3-Dichlorobenzene	W. 2-Methylnaphthalene	PP. 4,6-Dinitro-2-methylphenol	III. Benzo(a)pyrene	BBBB. Benzo(a)fluoranthene
E. 1,4-Dichlorobenzene	X. Hexachlorocyclopentadiene	QQ. N-Nitrosodiphenylamine	JJJ. Indeno(1,2,3-cd)pyrene	CCCC. Benzo(b)fluorene
F. 1,2-Dichlorobenzene	Y. 2,4,6-Trichlorophenol	RR. 4-Bromophenyl-phenylether	KKK. Dibenz(a,h)anthracene	DDDD. cis/trans-Decalin
G. 2-Methylphenol	Z. 2,4,5-Trichlorophenol	SS. Hexachlorobenzene	LLL. Benzo(g,h,i)perylene	EEEE. Biphenyl
H. 2,2'-Oxybis(1-chloropropane)	AA. 2-Chloronaphthalene	TT. Pentachlorophenol	MMM. Bis(2-Chloroisopropyl)ether	FFFF. Retene
I. 4-Methylphenol	BB. 2-Nitroaniline	UU. Phenanthrene	NNN. Aniline	GGGG. C30-Hopane
J. N-Nitroso-di-n-propylamine	CC. Dimethylphthalate	VV. Anthracene	OOO. N-Nitrosodimethylamine	HHHH. 1-Methylphenanthrene
K. Hexachloroethane	DD. Acenaphthylene	WW. Carbazole	PPP. Benzoic Acid	IIII. 1,4-Dioxane
L. Nitrobenzene	EE. 2,6-Dinitrotoluene	XX. Di-n-butylphthalate	QQQ. Benzyl alcohol	JJJJ. Acetophenone
M. Isophorone	FF. 3-Nitroaniline	YY. Fluoranthene	RRR. Pyridine	KKKK. Atrazine
N. 2-Nitrophenol	GG. Acenaphthene	ZZ. Pyrene	SSS. Benzidine	LLLL. Benzaldehyde
O. 2,4-Dimethylphenol	HH. 2,4-Dinitrophenol	AAA. Butylbenzylphthalate	TTT. 1-Methylnaphthalene	MMMM. Caprolactam
P. Bis(2-chloroethoxy)methane	II. 4-Nitrophenol	BBB. 3,3'-Dichlorobenzidine	UUU. Benzo(b)thiophene	NNNN.
Q. 2,4-Dichlorophenol	JJ. Dibenzofuran	CCC. Benzo(a)anthracene	VVV. Benzonaphthothiophene	OOOO.
R. 1,2,4-Trichlorobenzene	KK. 2,4-Dinitrotoluene	DDD. Chrysene	WWW. Benzo(e)pyrene	PPPP.
S. Naphthalene	LL. Diethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	XXX. 2,6-Dimethylnaphthalene	QQQQ.

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours of sample analysis for each instrument?

YN N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?

Y N N/A Were all %D and RRFs within the validation criteria of ≤ 20 %D and ≥ 0.05 RRF ?

[illegible]

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: SMMUSD

Collection Date: July 8, 2014

LDC Report Date: July 31, 2014

Matrix: Soil

Parameters: Chlorinated Pesticides

Validation Level: EPA Level III

Laboratory: TestAmerica, Inc.

Sample Delivery Group (SDG): 440-82809-1

Sample Identification

MH-SB-29-0-0.5	MH-SB-47-1.5-2	MH-SB-38-0-0.5
MH-SB-29-1.5-2	MH-SB-48-0-0.5	MH-SB-38-1.5-2
MH-SB-30-0-0.5	MH-SB-48-1.5-2	MH-SB-39-0-0.5
MH-SB-30-1.5-2	MH-SB-49-0-0.5	MH-SB-39-1.5-2
MH-SB-31-0-0.5	MH-SB-49-1.5-2	MH-SB-40-0-0.5
MH-SB-31-1.5-2	MH-SB-62-0-0.5	MH-SB-40-1.5-2
MH-SB-32-0-0.5	MH-SB-62-1.5-2	MH-SB-31-0-0.5MS
MH-SB-32-1.5-2	MH-SB-63-0-0.5	MH-SB-31-0-0.5MSD
MH-SB-33-0-0.5	MH-SB-63-1.5-2	MH-SB-46-0-0.5MS
MH-SB-33-1.5-2	MH-SB-64-0-0.5	MH-SB-46-0-0.5MSD
MH-SB-34-0-0.5	MH-SB-64-1.5-2	MH-SB-35-1.5-2MS
MH-SB-34-1.5-2	MH-SB-65-0-0.5	MH-SB-35-1.5-2MSD
MH-SB-44-0-0.5	MH-SB-65-1.5-2	
MH-SB-44-1.5-2	MH-SB-35-0-0.5	
MH-SB-45-0-0.5	MH-SB-35-1.5-2	
MH-SB-45-1.5-2	MH-SB-35-0-0.5-FD	
MH-SB-46-0-0.5	MH-SB-36-0-0.5	
MH-SB-46-1.5-2	MH-SB-36-1.5-2	
MH-SB-46-1.5-2-FD	MH-SB-37-0-0.5	
MH-SB-47-0-0.5	MH-SB-37-1.5-2	

Introduction

This data review covers 52 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081A for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

The individual 4,4'-DDT and Endrin breakdowns (%BD) were less than or equal to 15.0%.

III. Initial Calibration

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
7/18/14	G18_008.D	RTX0CLPIIB	4,4'-DDD Endrin aldehyde Methoxychlor Endrin ketone	28.8 21.5 24.0 23.6	MH-SB-29-0-0.5 MH-SB-30-0-0.5 MH-SB-30-1.5-2 MH-SB-31-0-0.5 MH-SB-31-1.5-2 MH-SB-32-0-0.5 MH-SB-33-1.5-2	J (all detects) UJ (all non-detects)	A

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
7/19/14	G19_008.D	RTX-CLPIB	Methoxychlor	23.4	MH-SB-46-1.5-2-FD MH-SB-47-0-0.5 MH-SB-47-1.5-2 MH-SB-48-0-0.5 MH-SB-48-1.5-2 MH-SB-49-0-0.5 MH-SB-49-1.5-2 MH-SB-62-0-0.5 MH-SB-62-1.5-2 MH-SB-63-0-0.5 MH-SB-63-1.5-2 MH-SB-64-0-0.5 MH-SB-64-1.5-2 MH-SB-65-0-0.5 MH-SB-65-1.5-2 MH-SB-35-0-0.5 MH-SB-35-1.5-2 MH-SB-35-0-0.5-FD MH-SB-36-0-0.5 MH-SB-35-1.5-2MS MH-SB-35-1.5-2MSD MB440-194798	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
MH-SB-63-0-0.5	RTX-CLPIB	Decachlorobiphenyl	125 (45-120)	All TCL compounds	J (all detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
MH-SB-46-0-0.5MS/MSD (MH-SB-46-0-0.5)	Heptachlor	-	-	40 (≤30)	J (all detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples MH-SB-46-1.5-2 and MH-SB-46-1.5-2-FD and samples MH-SB-35-0-0.5 and MH-SB-35-0-0.5-FD were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	MH-SB-46-1.5-2	MH-SB-46-1.5-2-FD	
4,4'-DDE	5.4	8.8	48

SMMUSD**Chlorinated Pesticides - Data Qualification Summary - SDG 440-82809-1**

SDG	Sample	Compound	Flag	A or P	Reason
440-82809-1	MH-SB-29-0-0.5 MH-SB-30-0-0.5 MH-SB-30-1.5-2 MH-SB-31-0-0.5 MH-SB-31-1.5-2 MH-SB-32-0-0.5 MH-SB-33-1.5-2	4,4'-DDD Endrin aldehyde Methoxychlor Endrin ketone	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
440-82809-1	MH-SB-46-1.5-2-FD MH-SB-47-0-0.5 MH-SB-47-1.5-2 MH-SB-48-0-0.5 MH-SB-48-1.5-2 MH-SB-49-0-0.5 MH-SB-49-1.5-2 MH-SB-62-0-0.5 MH-SB-62-1.5-2 MH-SB-63-0-0.5 MH-SB-63-1.5-2 MH-SB-64-0-0.5 MH-SB-64-1.5-2 MH-SB-65-0-0.5 MH-SB-65-1.5-2 MH-SB-35-0-0.5 MH-SB-35-1.5-2 MH-SB-35-0-0.5-FD MH-SB-36-0-0.5	Methoxychlor	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
440-82809-1	MH-SB-63-0-0.5	All TCL compounds	J (all detects)	P	Surrogate spikes (%R)
440-82809-1	MH-SB-46-0-0.5	Heptachlor	J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD)

SMMUSD**Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 440-82809-1**

No Sample Data Qualified in this SDG

SMMUSD**Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG 440-82809-1**

No Sample Data Qualified in this SDG

LDC #: 32274A3a
 SDG #: 440-82809-1
 Laboratory: Test America Inc.

VALIDATION COMPLETENESS WORKSHEET Level III

Date: 7-25-14
 Page: 1 of 2
 Reviewer: YH
 2nd Reviewer: SM

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/8/14
II.	GC Instrument Performance Check	A	
III.	Initial calibration	A	$\leq 20\%$
IV.	Continuing calibration/ICV	SW	ccv/icv ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florasil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation/RL/LOQ/LODs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	D=18+19, 34+36*
XVI.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

* ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: 581

1	MH-SB-29-0-0.5	11	MH-SB-34-0-0.5	21	MH-SB-47-1.5-2	31	MH-SB-64-1.5-2
2	MH-SB-29-1.5-2	12	MH-SB-34-1.5-2	22	MH-SB-48-0-0.5	32	MH-SB-65-0-0.5
3	MH-SB-30-0-0.5	13	MH-SB-44-0-0.5	23	MH-SB-48-1.5-2	33	MH-SB-65-1.5-2
4	MH-SB-30-1.5-2	14	MH-SB-44-1.5-2	24	MH-SB-49-0-0.5	34	MH-SB-35-0-0.5
5	MH-SB-31-0-0.5	15	MH-SB-45-0-0.5	25	MH-SB-49-1.5-2	35	MH-SB-35-1.5-2
6	MH-SB-31-1.5-2	16	MH-SB-45-1.5-2	26	MH-SB-62-0-0.5	36	MH-SB-35-0-0.5-FD
7	MH-SB-32-0-0.5	17	MH-SB-46-0-0.5	27	MH-SB-62-1.5-2	37	MH-SB-36-0-0.5
8	MH-SB-32-1.5-2	18	MH-SB-46-1.5-2	28	MH-SB-63-0-0.5	38	MH-SB-36-1.5-2
9	MH-SB-33-0-0.5	19	MH-SB-46-1.5-2-FD	29	MH-SB-63-1.5-2	39	MH-SB-37-0-0.5
10	MH-SB-33-1.5-2	20	MH-SB-47-0-0.5	30	MH-SB-64-0-0.5	40	MH-SB-37-1.5-2

LDC #: 32274A3a
 SDG #: 440-82809-1
 Laboratory: Test America Inc.

VALIDATION COMPLETENESS WORKSHEET Level III

Date: 7-25-14
 Page: 2 of 2
 Reviewer: gn
 2nd Reviewer: SM

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times		Sampling dates:
II.	GC Instrument Performance Check	-	
III.	Initial calibration		
IV.	Continuing calibration/ICV		
V.	Blanks		
VI.	Surrogate spikes		
VII.	Matrix spike/Matrix spike duplicates		
VIII.	Laboratory control samples		
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation/RL/LOQ/LODs	N	
XIV.	Overall assessment of data		
XV.	Field duplicates		
XVI.	Field blanks		

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

41 ⁵	MH-SB-38-0-0.5	51 ⁴	MH-SB-35-1.5-2MS	61		71	
42 ³	MH-SB-38-1.5-2	52 ⁴	MH-SB-35-1.5-2MSD	62		72	
43 ³	MH-SB-39-0-0.5	53		63		73	
44 ³	MH-SB-39-1.5-2	54		64		74	
45 ³	MH-SB-40-0-0.5	55		65		75	
46 ³	MH-SB-40-1.5-2	56		66	MB440-194395	76	
47	MH-SB-31-0-0.5MS	57		67	MB440-194607	77	
48	MH-SB-31-0-0.5MSD	58		68	MB440-194868	78	
49	MH-SB-46-0-0.5MS	59		69	MB440-194798	79	
50	MH-SB-46-0-0.5MSD	60		70	MB440-195207	80	

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPA SW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. oxy-Chlordane
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Mirex
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK.
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL.
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM.
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:

VALIDATION FINDINGS WORKSHEET Continuing Calibration

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

- ☒ N N/A Were Evaluation mix standards run before initial calibration and before samples?
☒ N N/A Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard ($\leq 15.0\%$ for individual breakdowns)?
☒ N N/A Was at least one standard run daily to verify the working curve?
☒ Y ☒ N/A Did the continuing calibration standards meet the percent difference (%D) of $\leq 20.0\%$?

Level IV/D Only

- ☒ Y ☒ N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Column	Compound	%D (Limit: ≤ 20.0)	RT (Limits)	Associated Samples	Qualifications
CCV	7/18/14	G18-008.D	RTX-CLP II B	M	28.8	()	1, 3-7, 10	J/uJ/A
↓	↓	↓	↓	R	21.5	()	↓	↓
↓	↓	↓	↓	P	24.0	()	↓	↓
↓	↓	↓	↓	Q	23.6	()	↓	↓
						()		
CCV	7/19/14	G19-008.D	RTX-CLP II B	P	23.4	()	19-37, 51-52, MB440-194798	J/uJ/A
						()		
						()		
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						()		

A. alpha-BHC
B. beta-BHC
C. delta-BHC
D. gamma-BHC

E. Heptachlor
F. Aldrin
G. Heptachlor epoxide
H. Endosulfan I

I. Dieldrin
J. 4,4'-DDE
K. Endrin
L. Endosulfan II

M. 4,4'-DDD
N. Endosulfan sulfate
O. 4,4'-DDT
P. Methoxychlor

Q. Endrin ketone
R. Endrin aldehyde
S. alpha-Chlordane
T. gamma-Chlordane

U. Toxaphene
V. Aroclor-1016
W. Aroclor-1221
X. Aroclor-1232

Y. Aroclor-1242
Z. Aroclor-1248
AA. Aroclor-1254
BB. Aroclor-1260

CC. 2,4'-DDD
DD. 2,4'-DDE
EE. 2,4'-DDT
FF. Hexachlorobenzene

GG. Chlordane
HH. Chlordane (Technical)

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081A/8082A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as N/A.

☐ N N/A Were surrogates spiked into all samples, standards and blanks?

☒ Y ~~N~~ N/A Were all DCB surrogate recoveries within advisory QC limits on each column.

Level IV/D ONLY

Y N N/A Were surrogate retention times (RTs) on each column within the established RT windows for all samples, standards and blanks?

[illegible]

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

Comments: _____

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

④ N N/A	Was a MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Y (N) N/A	Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

[illegible]

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: GC

☒ N N/A
☒ N N/A

Were field duplicate pairs identified in this SDG?

Were target compounds detected in the field duplicate pairs?

Compound	Concentration (µg/kg)		RPD
	18	19	
J	5.4	8.8	48

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: SMMUSD
Collection Date: July 8, 2014
LDC Report Date: July 30, 2014
Matrix: Soil
Parameters: Polychlorinated Biphenyls
Validation Level: EPA Level III
Laboratory: TestAmerica, Inc.
Sample Delivery Group (SDG): 440-82809-1

Sample Identification

MH-SB-27A-0-0.5	MH-SB-46-1.5-2	MH-SB-40-0-0.5
MH-SB-27A-1.5-2	MH-SB-46-1.5-2-FD	MH-SB-40-1.5-2
MH-SB-27B-0-0.5	MH-SB-47-0-0.5	MH-SB-28B-1.5-2MS
MH-SB-27B-1.5-2	MH-SB-47-1.5-2	MH-SB-28B-1.5-2MSD
MH-SB-28A-0-0.5	MH-SB-48-0-0.5	MH-SB-46-0-0.5MS
MH-SB-28A-1.5-2	MH-SB-48-1.5-2	MH-SB-46-0-0.5MSD
MH-SB-28B-0-0.5	MH-SB-49-0-0.5	MH-SB-49-1.5-2MS
MH-SB-28B-1.5-2	MH-SB-49-1.5-2	MH-SB-49-1.5-2MSD
MH-SB-28B-0-0.5-FD	MH-SB-62-0-0.5	
MH-SB-29-0-0.5	MH-SB-62-1.5-2	
MH-SB-29-1.5-2	MH-SB-63-0-0.5	
MH-SB-30-0-0.5	MH-SB-63-1.5-2	
MH-SB-30-1.5-2	MH-SB-64-0-0.5	
MH-SB-32-0-0.5	MH-SB-64-1.5-2	
MH-SB-32-1.5-2	MH-SB-65-0-0.5	
MH-SB-44-0-0.5	MH-SB-65-1.5-2	
MH-SB-44-1.5-2	MH-SB-37-0-0.5	
MH-SB-45-0-0.5	MH-SB-37-1.5-2	
MH-SB-45-1.5-2	MH-SB-38-0-0.5	
MH-SB-46-0-0.5	MH-SB-38-1.5-2	

Introduction

This data review covers 48 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC Instrument Performance Check

Instrument performance was not required by the method.

III. Initial Calibration

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

The percent difference (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
MH-SB-28B-0-0.5	DB-608	Decachlorobiphenyl	40 (45-120)	All TCL compounds	J (all detects) UJ (all non-detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Affected Compound	Flag	A or P
MH-SB-46-0-0.5MS/MSD (MH-SB-46-0-0.5)	Aroclor-1260	162 (50-125)	320 (50-125)	65 (≤30)	Aroclor-1260 Aroclor-1242 Aroclor-1248 Aroclor-1254	J (all detects) J (all detects) J (all detects) J (all detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not reviewed in this SDG.

XI. GPC Calibration

GPC cleanup was not reviewed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples MH-SB-28B-0-0.5 and MH-SB-28B-0-0.5-FD and samples MH-SB-46-1.5-2 and MH-SB-46-1.5-2-FD were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples.

SMMUSD**Polychlorinated Biphenyls - Data Qualification Summary - SDG 440-82809-1**

SDG	Sample	Compound	Flag	A or P	Reason
440-82809-1	MH-SB-28B-0-0.5	All TCL compounds	J (all detects) UJ (all non-detects)	P	Surrogate spikes (%R)
440-82809-1	MH-SB-46-0-0.5	Aroclor-1260 Aroclor-1242 Aroclor-1248 Aroclor-1254	J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD)

SMMUSD**Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 440-82809-1**

No Sample Data Qualified in this SDG

SMMUSD**Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG 440-82809-1**

No Sample Data Qualified in this SDG

LDC #: 32274A3b
 SDG #: 440-82809-1
 Laboratory: Test America Inc.

VALIDATION COMPLETENESS WORKSHEET Level III

Date: 7-29-14
 Page: 1 of 2
 Reviewer: SM
 2nd Reviewer: CM

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/8/14
II.	GC Instrument Performance Check	N	
III.	Initial calibration	A	$\leq 20\%$
IV.	Continuing calibration/ICV	A	CCV/ICV $\leq 20\%$
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation/RL/LOQ/LODs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	ND	b = 7+9, 21+22
XVI.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: Soil

1 <u>2</u>	MH-SB-27A-0-0.5	11 <u>2</u>	MH-SB-29-1.5-2	21 <u>3</u>	MH-SB-46-1.5-2	31 <u>4</u>	MH-SB-63-0-0.5
2 <u>2</u>	MH-SB-27A-1.5-2	12 <u>2</u>	MH-SB-30-0-0.5	22 <u>4</u>	MH-SB-46-1.5-2-FD	32 <u>4</u>	MH-SB-63-1.5-2
3 <u>2</u>	MH-SB-27B-0-0.5	13 <u>2</u>	MH-SB-30-1.5-2	23 <u>4</u>	MH-SB-47-0-0.5	33 <u>4</u>	MH-SB-64-0-0.5
4 <u>2</u>	MH-SB-27B-1.5-2	14 <u>2</u>	MH-SB-32-0-0.5	24 <u>4</u>	MH-SB-47-1.5-2	34 <u>4</u>	MH-SB-64-1.5-2
5 <u>2</u>	MH-SB-28A-0-0.5	15 <u>2</u>	MH-SB-32-1.5-2	25 <u>4</u>	MH-SB-48-0-0.5	35 <u>4</u>	MH-SB-65-0-0.5
6 <u>2</u>	MH-SB-28A-1.5-2	16 <u>3</u>	MH-SB-44-0-0.5	26 <u>4</u>	MH-SB-48-1.5-2	36 <u>4</u>	MH-SB-65-1.5-2
7 <u>2</u>	MH-SB-28B-0-0.5	17 <u>3</u>	MH-SB-44-1.5-2	27 <u>4</u>	MH-SB-49-0-0.5	37 <u>5</u>	MH-SB-37-0-0.5
8 <u>2</u>	MH-SB-28B-1.5-2	18 <u>3</u>	MH-SB-45-0-0.5	28 <u>4</u>	MH-SB-49-1.5-2	38 <u>5</u>	MH-SB-37-1.5-2
9 <u>1</u>	MH-SB-28B-0-0.5-FD	19 <u>3</u>	MH-SB-45-1.5-2	29 <u>4</u>	MH-SB-62-0-0.5	39 <u>5</u>	MH-SB-38-0-0.5
10 <u>2</u>	MH-SB-29-0-0.5	20 <u>3</u>	MH-SB-46-0-0.5	30 <u>4</u>	MH-SB-62-1.5-2	40 <u>5</u>	MH-SB-38-1.5-2

LDC #: 32274A3b
 SDG #: 440-82809-1
 Laboratory: Test America Inc.

VALIDATION COMPLETENESS WORKSHEET Level III

Date: 7-29-14
 Page: 2 of 2
 Reviewer: SM
 2nd Reviewer: SM

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times		Sampling dates:
II.	GC Instrument Performance Check	-	
III.	Initial calibration		
IV.	Continuing calibration/ICV		
V.	Blanks		
VI.	Surrogate spikes		
VII.	Matrix spike/Matrix spike duplicates		
VIII.	Laboratory control samples		
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation/PL/LOQ/LODs	N	
XIV.	Overall assessment of data		
XV.	Field duplicates		
XVI.	Field blanks		

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

41 ⁵	MH-SB-40-0-0.5	51		61		71	
42 ⁵	MH-SB-40-1.5-2	52		62		72	
43 ²	MH-SB-28B-1.5-2MS	53		63		73	
44 ²	MH-SB-28B-1.5-2MSD	54 ¹	MB440-194352	64		74	
45 ³	MH-SB-46-0-0.5MS	55 ²	MB440-194395	65		75	
46 ³	MH-SB-46-0-0.5MSD	56 ³	MB440-194607	66		76	
47 ⁴	MH-SB-49-1.5-2MS	57 ⁴	MB440-194798	67		77	
48 ⁴	MH-SB-49-1.5-2MSD	58 ⁵	MB440-194868	68		78	
49		59		69		79	
50		60		70		80	

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPA SW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. oxy-Chlordane
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Mirex
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK.
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL.
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM.
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes: _____

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081A/8082A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as N/A.

Y N N/A Were surrogates spiked into all samples, standards and blanks?

Y N N/A Were all DCB surrogate recoveries within advisory QC limits on each column.

Level IV/D ONLY

Y N N/A Were surrogate retention times (RTs) on each column within the established RT windows for all samples, standards and blanks?

[illegible]

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

Comments: _____

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

N	N/A	Was a MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Y (N) N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

[illegible]

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: SMMUSD

Collection Date: July 8, 2014

LDC Report Date: July 31, 2014

Matrix: Soil

Parameters: Metals

Validation Level: EPA Level III

Laboratory: TestAmerica, Inc.

Sample Delivery Group (SDG): 440-82809-1

Sample Identification

MH-SB-29-0-0.5	MH-SB-45-1.5-2	MH-SB-39-1.5-2
MH-SB-29-1.5-2	MH-SB-46-0-0.5	MH-SB-46-0-0.5MS
MH-SB-30-0-0.5	MH-SB-46-1.5-2	MH-SB-46-0-0.5MSD
MH-SB-30-1.5-2	MH-SB-46-1.5-2-FD	MH-SB-35-1.5-2MS
MH-SB-31-0-0.5	MH-SB-47-0-0.5	MH-SB-35-1.5-2MSD
MH-SB-31-1.5-2	MH-SB-47-1.5-2	
MH-SB-32-0-0.5	MH-SB-48-0-0.5	
MH-SB-32-1.5-2	MH-SB-48-1.5-2	
MH-SB-33-0-0.5	MH-SB-62-0-0.5	
MH-SB-33-1.5-2	MH-SB-62-1.5-2	
MH-SB-34-0-0.5	MH-SB-35-0-0.5	
MH-SB-34-1.5-2	MH-SB-35-1.5-2	
JC-SB-62-4.5-5	MH-SB-35-0-0.5-FD	
JC-SB-62-14.5-15	MH-SB-36-0-0.5	
JC-SB-62-24.5-25	MH-SB-36-1.5-2	
JC-SB-62-34.5-35	MH-SB-37-0-0.5	
JC-SB-62-39.5-40	MH-SB-37-1.5-2	
MH-SB-44-0-0.5	MH-SB-38-0-0.5	
MH-SB-44-1.5-2	MH-SB-38-1.5-2	
MH-SB-45-0-0.5	MH-SB-39-0-0.5	

Introduction

This data review covers 47 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B and 7471A for Metals. The metals analyzed were Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

ICP-MS was not utilized in this SDG.

III. Calibration

The initial and continuing calibrations were performed at the required frequency.

The calibration standards criteria were met with the following exceptions:

Date	Lab. Reference/ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
7/11/14	CRQL (10:05)	Lead	62 (70-130)	MH-SB-31-1.5-2 MH-SB-33-0-0.5 JC-SB-62-4.5-5 JC-SB-62-24.5-25 JC-SB-62-34.5-35 JC-SB-62-39.5-40 MH-SB-35-0-0.5 MH-SB-35-0-0.5-FD MH-SB-36-1.5-2	J (all detects) UJ (all non-detects)	P

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No metal contaminants were found in the preparation, initial, and continuing calibration blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Antimony	0.0114 mg/L	MH-SB-31-0-0.5 MH-SB-31-1.5-2 MH-SB-33-0-0.5 MH-SB-35-1.5-2

Data qualification by the initial and continuing (ICB/CCB) was based on the maximum contaminant concentration in the ICB/CCBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks.

No field blanks were identified in this SDG.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
MH-SB-35-1.5-2MS/MSD (MH-SB-31-0-0.5 MH-SB-31-1.5-2 MH-SB-33-0-0.5 MH-SB-33-1.5-2 MH-SB-34-0-0.5 MH-SB-34-1.5-2 JC-SB-62-4.5-5 JC-SB-62-14.5-15 JC-SB-62-24.5-25 JC-SB-62-34.5-35 JC-SB-62-39.5-40 MH-SB-35-0-0.5 MH-SB-35-0-0.5-FD MH-SB-36-0-0.5 MH-SB-36-1.5-2)	Antimony	38 (75-125)	46 (75-125) -	- -	J (all detects) UJ (all non-detects)	A
MH-SB-35-1.5-2MS/MSD (MH-SB-39-0-0.5 MH-SB-39-1.5-2)	Selenium Zinc Barium	72 (75-125) - 179 (75-125)	- 73 (75-125) 52 (75-125)	- - 38 (≤20)	J (all detects) UJ (all non-detects)	A

VII. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in this SDG, and therefore duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

Samples MH-SB-46-1.5-2 and MH-SB-46-1.5-2-FD and samples MH-SB-35-0-0.5 and MH-SB-35-0-0.5-FD were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD
	MH-SB-35-0-0.5	MH-SB-35-0-0.5-FD	
Barium	56	41	31
Cadmium	0.54	0.49U	200
Chromium	18	14	25
Cobalt	5.0	4.5	11
Copper	10	7.7	26
Lead	3.7	2.5	39
Mercury	0.032	0.049	42
Nickel	13	12	8
Vanadium	24	19	23
Zinc	45	31	37

SMMUSD**Metals - Data Qualification Summary - SDG 440-82809-1**

SDG	Sample	Analyte	Flag	A or P	Reason
440-82809-1	MH-SB-31-1.5-2 MH-SB-33-0-0.5 JC-SB-62-4.5-5 JC-SB-62-24.5-25 JC-SB-62-34.5-35 JC-SB-62-39.5-40 MH-SB-35-0-0.5 MH-SB-35-0-0.5-FD MH-SB-36-1.5-2	Lead	J (all detects) UJ (all non-detects)	P	Calibration (%R)
440-82809-1	MH-SB-31-0-0.5 MH-SB-31-1.5-2 MH-SB-33-0-0.5 MH-SB-33-1.5-2 MH-SB-34-0-0.5 MH-SB-34-1.5-2 JC-SB-62-4.5-5 JC-SB-62-14.5-15 JC-SB-62-24.5-25 JC-SB-62-34.5-35 JC-SB-62-39.5-40 MH-SB-35-0-0.5 MH-SB-35-0-0.5-FD MH-SB-36-0-0.5 MH-SB-36-1.5-2	Antimony	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)
440-82809-1	MH-SB-39-0-0.5 MH-SB-39-1.5-2	Selenium Zinc	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)
440-82809-1	MH-SB-39-0-0.5 MH-SB-39-1.5-2	Barium	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD)

SMMUSD**Metals - Laboratory Blank Data Qualification Summary - SDG 440-82809-1**

No Sample Data Qualified in this SDG

SMMUSD**Metals - Field Blank Data Qualification Summary - SDG 440-82809-1**

No Sample Data Qualified in this SDG

LDC #: 32274A4
 SDG #: 440-82809-1
 Laboratory: Test America Inc.

VALIDATION COMPLETENESS WORKSHEET **Level III**

Date: 7/30/14
 Page: 1 of 2
 Reviewer: KR
 2nd Reviewer: ca

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>7/8/14</u>
II.	ICP/MS Tune	N	
III.	Calibration	SW	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	A	
VI.	Matrix Spike Analysis	SW	MSP
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	ICP Serial Dilution	N	
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	SW	<u>*(23, 24) (31, 33)</u>
XIV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

*ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: 8/1

1	MH-SB-29-0-0.5	11	MH-SB-34-0-0.5	21	MH-SB-45-1.5-2	31	MH-SB-35-0-0.5
2	MH-SB-29-1.5-2	12	MH-SB-34-1.5-2	22	MH-SB-46-0-0.5	32	MH-SB-35-1.5-2
3	MH-SB-30-0-0.5	13	JC-SB-62-4.5-5	23	MH-SB-46-1.5-2	33	MH-SB-35-0-0.5-FD
4	MH-SB-30-1.5-2	14	JC-SB-62-14.5-15	24	MH-SB-46-1.5-2-FD	34	MH-SB-36-0-0.5
5	MH-SB-31-0-0.5	15	JC-SB-62-24.5-25	25	MH-SB-47-0-0.5	35	MH-SB-36-1.5-2
6	MH-SB-31-1.5-2	16	JC-SB-62-34.5-35	26	MH-SB-47-1.5-2	36	MH-SB-37-0-0.5
7	MH-SB-32-0-0.5	17	JC-SB-62-39.5-40	27	MH-SB-48-0-0.5	37	MH-SB-37-1.5-2
8	MH-SB-32-1.5-2	18	MH-SB-44-0-0.5	28	MH-SB-48-1.5-2	38	MH-SB-38-0-0.5
9	MH-SB-33-0-0.5	19	MH-SB-44-1.5-2	29	MH-SB-62-0-0.5	39	MH-SB-38-1.5-2
10	MH-SB-33-1.5-2	20	MH-SB-45-0-0.5	30	MH-SB-62-1.5-2	40	MH-SB-39-0-0.5

Notes: _____

LDC #: 32254A4

VALIDATION COMPLETENESS WORKSHEET

Date: 7/30/14

SDG #: 440-82809-1

Level III

Page: 2 of 2

Laboratory: Test America Inc.

Reviewer: *KK*2nd Reviewer: *an***METHOD:** Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times		Sampling dates:
II.	ICP/MS Tune		
III.	Calibration		
IV.	Blanks		
V.	ICP Interference Check Sample (ICS) Analysis		<i>See pg 1</i>
VI.	Matrix Spike Analysis		
VII.	Duplicate Sample Analysis		
VIII.	Laboratory Control Samples (LCS)		
IX.	Internal Standard (ICP-MS)		
X.	ICP Serial Dilution		
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data		
XIII.	Field Duplicates		
XIV.	Field Blanks		

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

41	MH-SB-39-1.5-2	51		61		71	
42	MH-SB-46-0-0.5MS	52		62		72	
43	MH-SB-46-0-0.5MSD	53		63		73	
44	MH-SB-35-1.5-2MS	54		64		74	
45	MH-SB-35-1.5-2MSD	55		65		75	
46	# 37 MS	56		66		76	
47	# 37 MSD	57		67		77	
48		58		68		78	
49		59		69		79	
50		60		70		80	

Notes: _____

All circled elements are applicable to each sample.

[illegible]

Comments: ~~Mercury by CVAA if performed~~

6010B / 7471A

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

N N/A Were all instruments calibrated daily, each set-up time, and were the proper number of standards used?

Y	N	N/A	Were all initial and continuing calibration verification percent recoveries (%R) within the control limits of 90-110% for all analytes except mercury (80-120%)?

LEVEL IV ONLY:

Y N N/A Was a midrange cyanide standard distilled?

Y	N	N/A	
			Are all correlation coefficients >0.995 ?

Y N N/A Were recalculated results acceptable? See Level IV Initial and Continuing Calibration Recalculation Worksheet for recalculations.

[illegible]

Comments:

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLESReviewer: jk2nd Reviewer: or

METHOD: Trace metals (EPA SW 864 Method 6010B/7471A)

Soil preparation factor applied: 25

Sample Concentration units, unless otherwise noted: mg/kg

Associated Samples: 32, 5-6, 9

					Sample Identification									
Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (mg/l)	Maximum ICB/CCB ^a (mg/l)	Action Level	no qual									
Sb			0.0114	1.425										

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

METHOD: Trace metals (EPA SW 846 Method 6010B/6020A/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A

Was a matrix spike analyzed for each matrix in this SDG?

Y N N/A

Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

Y (N) N/A

Were all duplicate sample relative percent differences (RPD) $\leq 20\%$ for water samples and $\leq 35\%$ for soil samples?

LEVEL IV ONLY:

Y N N/A

Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

[illegible]

Comments: _____

LDC#: 32274A4**VALIDATION FINDINGS WORKSHEET**
Field DuplicatesPage: 1 of 1
Reviewer: KK
2nd Reviewer: OL**METHOD:** Metals (EPA Method 6010B/7471A)

Analyte	Concentration (mg/Kg)		RPD
	31	33	
Barium	56	41	31
Cadmium	0.54	0.49U	200
Chromium	18	14	25
Cobalt	5.0	4.5	11
Copper	10	7.7	26
Lead	3.7	2.5	39
Mercury	0.032	0.049	42
Nickel	13	12	8
Vanadium	24	19	23
Zinc	45	31	37

\\LDCFILESERVER\Validation\FIELD DUPLICATES\FD_inorganic\32274A4.wpd

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: SMMUSD
Collection Date: July 8, 2014
LDC Report Date: July 29, 2014
Matrix: Soil
Parameters: Gasoline Range Organics
Validation Level: EPA Level III
Laboratory: TestAmerica, Inc.
Sample Delivery Group (SDG): 440-82809-1

Sample Identification

JC-SB-62-4.5-5
JC-SB-62-14.5-15
JC-SB-62-24.5-25
JC-SB-62-34.5-35
JC-SB-62-39.5-40
JC-SB-62-4.5-5MS
JC-SB-62-4.5-5MSD

Introduction

This data review covers 7 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Gasoline Range Organics.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

III. Calibration Verification

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No gasoline range organic contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
JC-SB-62-4.5-5MS/MSD (JC-SB-62-4.5-5)	Gasoline range organics (C4-C12)	-	-	34 (≤30)	J (all detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

Raw data were not reviewed for this SDG.

IX. Compound Quantitation

Raw data were not reviewed for this SDG.

X. System Performance

Raw data were not reviewed for this SDG.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

SMMUSD**Gasoline Range Organics - Data Qualification Summary - SDG 440-82809-1**

SDG	Sample	Compound	Flag	A or P	Reason
440-82809-1	JC-SB-62-4.5-5	Gasoline range organics (C4-C12)	J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD)

SMMUSD**Gasoline Range Organics - Laboratory Blank Data Qualification Summary - SDG 440-82809-1**

No Sample Data Qualified in this SDG

SMMUSD**Gasoline Range Organics - Field Blank Data Qualification Summary - SDG 440-82809-1**

No Sample Data Qualified in this SDG

LDC #: 32274A7
 SDG #: 440-82809-1
 Laboratory: Test America, Inc.

VALIDATION COMPLETENESS WORKSHEET Level III

Date: 7-29-14
 Page: 1 of 1
 Reviewer: SM
 2nd Reviewer: SM

METHOD: Gasoline Range Organics (EPA SW846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/8/14
II.	Initial calibration	A	≤ 20
III.	Calibration verification/ICV	A	CCV/ICV ≤ 20
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	A	LCS/LCSD
VIII.	Target compound identification	N	
IX.	Compound quantitation/RL/LOQ/LODs	N	
X.	System Performance	N	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

Soil

1	JC-SB-62-4.5-5	11		21		31	
2	JC-SB-62-14.5-15	12		22		32	
3	JC-SB-62-24.5-25	13		23		33	
4	JC-SB-62-34.5-35	14		24		34	
5	JC-SB-62-39.5-40	15		25		35	
6	JC-SB-62-4.5-5MS	16		26		36	
7	JC-SB-62-4.5-5MSD	17		27		37	
8		18		28		38	
9		19	MB440-193789	29		39	
10		20	MB440-194086	30		40	

Notes: _____

METHOD: X GC HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

YN N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Y(N) N/A	Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

[illegible]

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: SMMUSD
Collection Date: July 8, 2014
LDC Report Date: July 29, 2014
Matrix: Soil
Parameters: Diesel Range Organics
Validation Level: EPA Level III
Laboratory: TestAmerica, Inc.
Sample Delivery Group (SDG): 440-82809-1

Sample Identification

JC-SB-62-4.5-5
JC-SB-62-14.5-15
JC-SB-62-24.5-25
JC-SB-62-34.5-35
JC-SB-62-39.5-40

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Diesel Range Organics.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

III. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No diesel range organic contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

Raw data were not reviewed for this SDG.

IX. Compound Quantitations

Raw data were not reviewed for this SDG.

X. System Performance

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

SMMUSD

Diesel Range Organics - Data Qualification Summary - SDG 440-82809-1

No Sample Data Qualified in this SDG

SMMUSD

Diesel Range Organics - Laboratory Blank Data Qualification Summary - SDG 440-82809-1

No Sample Data Qualified in this SDG

SMMUSD

Diesel Range Organics - Field Blank Data Qualification Summary - SDG 440-82809-1

No Sample Data Qualified in this SDG

LDC #: 32274A8
 SDG #: 440-82809-1
 Laboratory: Test America, Inc.

VALIDATION COMPLETENESS WORKSHEET Level III

Date: 7-29-14
 Page: 1 of 1
 Reviewer: gh
 2nd Reviewer: SN

METHOD: GC Diesel Range Organics (EPA SW846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/8/14
II.	Initial calibration	A	$\leq 20\%$
III.	Calibration verification/ICV	A	CCV/ICV ≤ 20
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	C.S.
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	N	
IX.	Compound quantitation/RL/LOQ/LODs	N	
X.	System Performance	N	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: soil

1	JC-SB-62-4.5-5	11		21		31	
2	JC-SB-62-14.5-15	12		22		32	
3	JC-SB-62-24.5-25	13		23		33	
4	JC-SB-62-34.5-35	14		24		34	
5	JC-SB-62-39.5-40	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20	MB440-193643	30		40	

Notes: _____

