

# PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

**397 Blossom Hill Rd. San Jose, CA**

Prepared for: Charities Housing

Client Ref: 102.01358.00011

December 2018



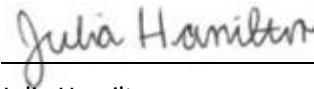
# 397 Blossom Hill Rd. San Jose, CA

Prepared for:

**Charities Housing**

397 Blossom Hill Blvd.  
San Jose CA, 95123

This document has been prepared by SLR International Corporation. The material and data in this report were prepared under the supervision and direction of the undersigned.



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Julia Hamilton  
Staff Scientist



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Hugo Vazquez  
Associate Engineer

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# 1. INTRODUCTION

SLR International Corporation (SLR) is pleased to submit this Phase II Environmental Site Assessment Report for the property located at 397 Blossom Hill Road, San Jose, California (Site) (Figure 1). This work was performed for Charities Housing, who is considering the redevelopment of the property to remove current tenants and replace them with higher occupancy residences. The purpose of the Phase II assessment activities was to evaluate the soil quality at the Site based on potential impacts from recognized environmental conditions (RECs) identified during the completion of our Phase I Report.

## 1.1 DEFINITIONS

The ASTM Practice defines a REC as:

“...the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property due to release to the environment; under conditions indicative of a release to the environment or under conditions that pose a material threat of future release. De minimis conditions are not recognized environmental conditions.”

De minimis conditions are defined as “conditions that generally do not present a threat to human health or the environment and that generally would not be subject of an enforcement action if brought to the attention of appropriate governmental agencies.”

The ASTM Practice defines a HREC as:

“...a past release of any hazardous substances or petroleum products that have occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls...”

The ASTM Practice defines a CREC as:

“...a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls...)”

## 2. BACKGROUND

SLR completed Phase I ESA Report for 397 Blossom Hill Road during August 2017. The Phase I ESA was performed in general conformance with the scope and limitations of ASTM Practice E1527-05, Standard Practice for Environmental Site Assessments.

### SITE DESCRIPTION/ OPERATIONS

The Site consists of 2.01 acres of land developed with a roller skating rink and associated parking lot located in the southern portion of the Santa Clara Valley in San Jose, Santa Clara County, California.

### HISTORICAL USE

A historical review determined that the Site was cultivated with an orchard from at least the late-1930s to the mid-1970s. The current roller rink was constructed on-Site in 1976, and has operated consistently as a roller rink until 2014 when the building was transformed into a furniture show room.

### RECOGNIZED ENVIRONMENTAL CONDITIONS

The past uses of the Site have been identified as RECs. These past uses may have been associated with hazardous materials that may have impacted the Site. Past uses of the Site include:

- *Former Agricultural Use* - The potential presence of chemical pesticides and/or insecticides may be present in the soil at the Site and is considered a REC.
- *Lead-Based Paint* – Due to the age of the buildings, lead-based paint is likely present. Lead-based paint over time may have flaked and impacted the surrounding soil.

### 3. SCOPE OF WORK

The scope of work for the Phase II Site Assessment Activities initial phase of sampling included the following:

- Collection and analysis of 7 near-surface soil samples to assess potential impacts from lead-based paint.
- Collection and analysis of 8 near-surface soil samples to evaluate potential impacts from historic agricultural site use.

Since one sample that was collected showed an above average concentration for pesticides, a second round of sampling was done. For this round of sampling five additional samples were taken near the previous sampling location where the higher concentration of pesticides was found.

## 4. ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES

To evaluate soil quality and potential impacts to soil from REC's identified during the Phase I ESA at the Site; SLR collected fifteen near-surface soil samples on October 10, 2018. The samples tested for lead were collected near the perimeter of the building on the property from the natural ground surface to a depth of approximately ½ foot using hand-sampling equipment. The samples tested for pesticides and arsenic were collected from under the asphalt of the parking lot using a Coring Subcontractor to drill through the asphalt, and then hand sampling equipment was used to collect soil samples from approximately ½ foot under the asphalt. The second round of sampling was done on November 16, 2018 in the same way.

### 4.1 FORMER AGRICULTURAL USE

To screen the Site for potential impacts to soil from former agricultural activities, eight soil samples (SB-4 through SB-11) were collected for the initial phase of sampling from randomly selected locations across the Site. Soil samples were analyzed at a state-certified laboratory for organochlorine pesticides (EPA Test Method 8081) and arsenic (EPA Test Method 6010B). Analytical results are presented in Table 1. Copies of the detailed laboratory reports are attached in Appendix A. For sample locations please refer to Figure 2.

Samples collected and analyzed for Arsenic and pesticides were used to delineate impacts to the soil from former agricultural activities (Table 1). One sample, SB-4, was above Environmental Screening Limits (ESLs) for Residential Shallow Soil; a second round of samples (SB-16 through SB-20) was collected on November 16, 2018.

### 4.2 LEAD-BASED PAINT

To evaluate the current soil quality near buildings for potential lead-based paint impact, a total of seven soil samples were initially collected at random locations near the exterior walls of the building adjacent to soil at the Site..

All soil samples collected and analyzed for lead were used to delineate impacts to soil from lead-based paint. All samples were analyzed at a California state-certified laboratory for lead by EPA Test Method 6010B. Analytical results are presented in Table 1. Copies of the detailed laboratory reports are attached in Appendix A.

## 5. ANALYTICAL RESULTS

### 5.1 FORMER AGRICULTURE USE: ARSENIC AND PESTICIDE ANALYTICAL RESULTS

Analysis of the eight surface soil samples screened for arsenic and pesticides revealed three of the eight samples contained arsenic levels ranging from 3.85 to 7.43 mg/kg. Remaining samples were non-detect. The SF Bay Area Regional Water Quality Control Board (RWQCB) states that background levels of Arsenic in soils in San Jose are in the range of about 11 mg/kg. All surface samples were below the background. Generally, regulatory agencies do not require cleanup below natural background concentrations.

During the initial sampling event, one sample (SB-4) showed dieldrin concentrations that were nearly 5x the residential ESLs. Therefore, a second sampling event was conducted on November 16, 2018 to further characterize the suspect area. Five samples (SB-16 through SB-20) were taken all near to SB-4, and the results from this event showed no elevated levels of pesticides near this sample.

A statistical analysis of dieldrin was performed using the calculation of upper confidence limits. The analysis of 20 samples shows the mean concentration of dieldrin was 0.00008 mg/kg, far below the ESL Threshold of 0.00017 mg/kg. Based on these results, Dieldrin should not pose a concern at this Site. Results from the statistical analysis can be found in Appendix B.

### 5.2 LEAD-BASED PAINT: LEAD IN THE SOIL ANALYTICAL RESULTS

Laboratory analysis of the initial surface soil samples detected very low levels of lead in all samples analyzed. The California Water Board has an ESL for lead to be 80.0 mg/kg of soil. All seven samples tested for lead were in the range of 16-28 mg/kg. Results from sampling are shown in Table 1.



## 6. CONCLUSIONS

To evaluate soil quality and potential impacts to soil from REC's identified during the Phase I ESA at the Site, a total of 15 soil samples were collected and analyzed for select chemicals of concern including arsenic, lead, and various pesticides. A second round of sampling was done which collected 5 additional soil samples near the spot where analytical results for pesticides were higher than ESLs found during initial sampling.

Based on the analytical results and the statistical analysis of the pesticides samples, chemicals of concern, should not pose an adverse impact on future site residential development.

## 7. REFERENCES

Department of Toxic Substances Control (DTSC), Human and Ecological Risk Office (HERO). 2018. Human Health Risk Assessment (HHRA) Note Number 3 DTSC-modified Screening Levels (DTSC-SLs). February 2018.

Dylan J. Duverge, 2011, Establishing Background Arsenic in the Soil of the Urbanized San Francisco Bay Region. Thesis Master of Science in Geoscience, San Francisco State University.

Regional Water Quality Control Board (RWQCB) San Francisco Bay Region, 2013. User's Guide: Derivation and Application of Environmental Screening Levels, Environmental Screening Levels–Interim Final February 2016. February 2016.

SLR International Corporation, 2017. Phase I Environmental Assessment Report, 397 Blossom Hill Road San Jose, CA. August 2017.

## LIMITATIONS

The services described in this work product were performed in accordance with generally accepted professional consulting principles and practices. No other representations or warranties, expressed or implied, are made. These services were performed consistent with our agreement with our client. This work product is intended solely for the use and information of our client unless otherwise noted. Any reliance on this work product by a third party is at such party's sole risk.

Opinions and recommendations contained in this work product are based on conditions that existed at the time the services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. The data reported and the findings, observations, and conclusions expressed are limited by the scope of work. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this work product.

The purpose of an environmental assessment is to reasonably evaluate the potential for, or actual impact of, past practices on a given site area. In performing an environmental assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an appropriate level of analysis for each conceivable issue of potential concern. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation can be thorough enough to exclude the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not therefore be construed as a guarantee of the absence of such materials on the site, but rather as the result of the services performed within the scope, practical limitations, and cost of the work performed.

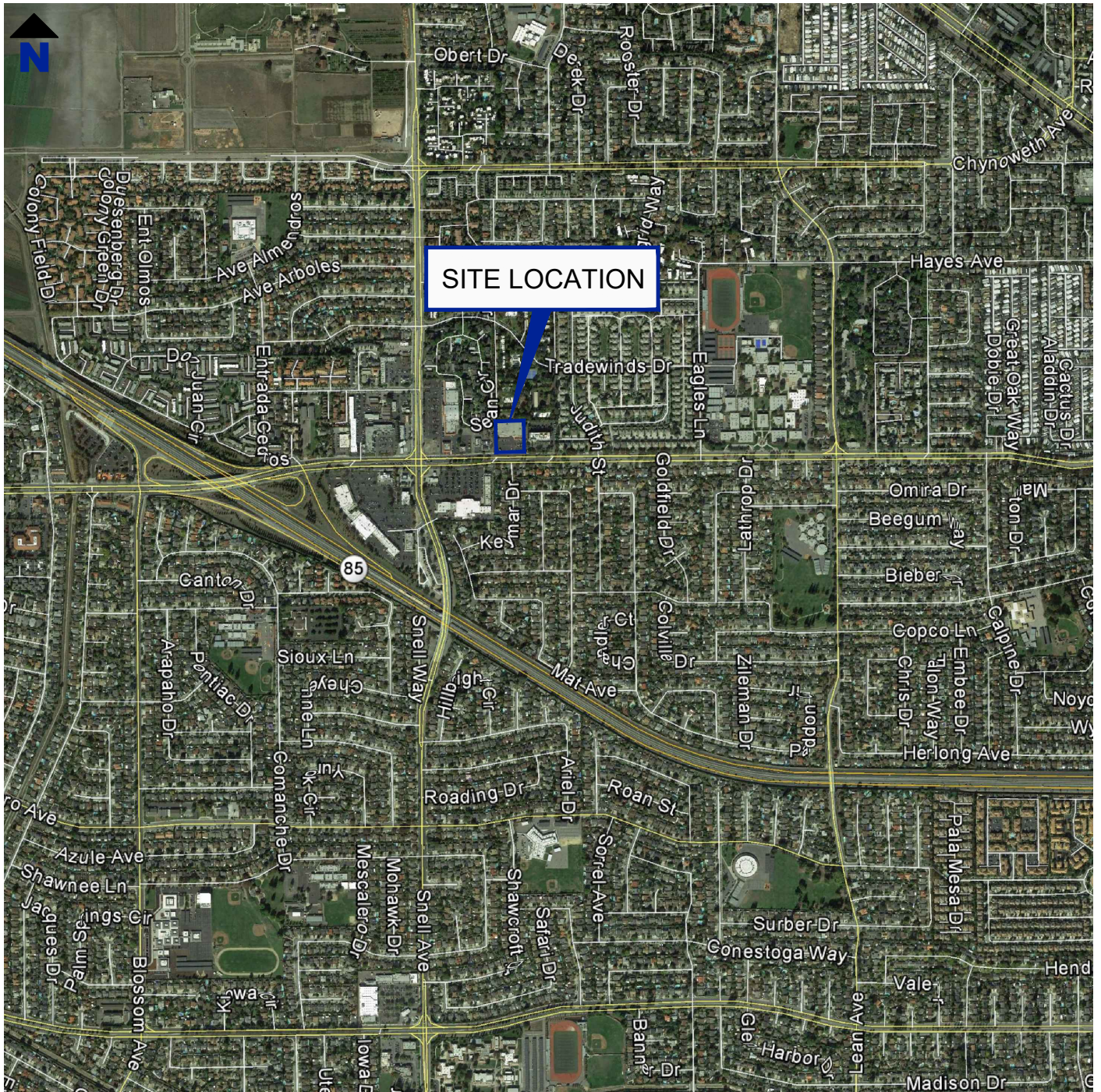
Environmental conditions that are not apparent may exist at the site. Our professional opinions are based in part on interpretation of data from a limited number of discrete sampling locations and therefore may not be representative of the actual overall site environmental conditions.

The passage of time, manifestation of latent conditions, or occurrence of future events may require further study at the site, analysis of the data, and/or reevaluation of the findings, observations, and conclusions in the work product.

This work product presents professional opinions and findings of a scientific and technical nature. The work product shall not be construed to offer legal opinion or representations as to the requirements of, nor the compliance with, environmental laws rules, regulations, or policies of federal, state or local governmental agencies.

# FIGURES

Last Saved: August 02, 2017 5:06:46 PM by hvazquez Drawing path: N:\Oakland\CAD\102.01358.00003 Charities Housing\Fig\397 Blossom Hill Road.dwg



REFERENCED FROM : GOOGLE EARTH PRO

SCALE 1:50,000



THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.



Charities Housing  
397 Blossom Hill Road  
San Jose, CA 95123

Report

Phase II ESA

Drawing

Vicinity Map

Date December 2018

Scale AS SHOWN

Fig. No.

File Name 397 Blossom Hill Road

Project No. 102.01358.00011

1

Last Saved: December 11, 2018 3:36:12 PM by hvazquez Drawing path: N:\Oakland\CAD\102.01358.00003 Charities Housing\Fig\397 Blossom Hill Road.dwg



REFERENCED FROM : GOOGLE EARTH PRO

LEGEND

- - - - - PROPERTY BOUNDARY
- SB-9 APPROXIMATE LOCATION OF SAMPLE

THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

**Charities Housing**  
**397 Blossom Hill Road**  
**San Jose, CA 95123**

Report  
**Phase II ESA**

Drawing  
**Site Plan Showing Sampling Locations**

Date December 2018  
 File Name 397 Blossom Hill Road

Scale 1" = 60'  
 Project No. 102.01358.00011

Fig. No.  
**2**



## **TABLES**

**397 Blosson Hill Phase II  
Summary of Analytical Data**

Sample ID		Screening Level Values			SB-1		SB-2		SB-3		SB-4		SB-5		SB-6		SB-7		SB-8		SB-9		SB-10			
Depth					0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5	
Collect Date					10/10/2018		10/10/2018		10/10/2018		10/10/2018		10/10/2018		10/10/2018		10/10/2018		10/10/2018		10/10/2018		10/10/2018		10/10/2018	
Method	Parameter	Units	CA CI ESLs	SF Bay RWQCB	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
<b>Metals</b>																										
6010 B	Lead	mg/kg	80.0	NE	21.8		27.6		27.3		NA		NA		NA		NA		NA		NA		NA			
6010 B	Arsenic	mg/kg	0.067	11	NA		NA		NA		3.85		ND		ND		7.43		6.99		ND		ND			
<b>Pesticides</b>																										
8081	Aldrin	mg/kg	0.036	NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Alpha BHC	mg/kg		NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Beta BHC	mg/kg		NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Delta BHC	mg/kg		NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Gamma BHC	mg/kg		NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	4,4-DDD	mg/kg	2.7	NE	NA		NA		NA		ND		ND		ND		0.00033	J	ND		ND		ND			
8081	4,4-DDE	mg/kg	1.9	NE	NA		NA		NA		0.00472	J	ND		ND		0.00751	J	0.00121	J	ND		ND			
8081	4,4-DDT	mg/kg	1.9	NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Dieldrin	mg/kg	0.00017	NE	NA		NA		NA		<b>0.000533</b>	J	ND		ND		ND		ND		ND		ND			
8081	Endosulfan I	mg/kg	0.0046	NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Endosulfan II	mg/kg		NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Endosulfan sulfate	mg/kg		NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Endrin	mg/kg	0.00065	NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Endrin aldehyde	mg/kg		NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Endrin ketone	mg/kg		NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Heptachlor	mg/kg	0.00077	NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Heptachlor epoxide	mg/kg	0.00042	NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Hexachlorobenzene	mg/kg	0.34	NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Methoxychlor	mg/kg	19.0	NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Chlordane	mg/kg	0.48	NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			
8081	Toxaphene	mg/kg	0.00042	NE	NA		NA		NA		ND		ND		ND		ND		ND		ND		ND			

**Notes**

Qualifiers J: The identification of the analyte is acceptable; the reported value is an estimate.

NA Not Analyzed

ND Not Detected

NE Not Established

**Bold Red** Indicates Exceedance of Screening Levels



**397 Blosson Hill Phase II  
Summary of Analytical Data**

Sample ID		Screening Level Values			SB-11		SB-12		SB-13		SB-14		SB-15		SB-16		SB-17		SB-18		SB-19		SB-20			
Depth					0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5	
Collect Date					10/10/2018		10/10/2018		10/10/2018		10/10/2018		10/10/2018		11/14/2018		11/14/2018		11/14/2018		11/14/2018		11/14/2018		11/14/2018	
Method	Parameter	Units	CA CI ESLs	SF Bay RWQCB	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
<b>Metals</b>																										
6010 B	Lead	mg/kg	80.0	NE	NA		18.4		18.2		16.7		22.00		NA		NA		NA		NA		NA			
6010 B	Arsenic	mg/kg	0.067	11	ND		NA		NA		NA		NA		NA		NA		NA		NA		NA			
<b>Pesticides</b>																										
8081	Aldrin	mg/kg	0.036	NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Alpha BHC	mg/kg		NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Beta BHC	mg/kg		NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		0.00039	J P		
8081	Delta BHC	mg/kg		NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Gamma BHC	mg/kg		NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	4,4-DDD	mg/kg	2.7	NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	4,4-DDE	mg/kg	1.9	NE	ND		NA		NA		NA		NA		ND		ND		ND		0.00348	J	0.0024	J P		
8081	4,4-DDT	mg/kg	1.9	NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Dieldrin	mg/kg	0.00017	NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Endosulfan I	mg/kg	0.0046	NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Endosulfan II	mg/kg		NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Endosulfan sulfate	mg/kg		NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Endrin	mg/kg	0.00065	NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Endrin aldehyde	mg/kg		NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Endrin ketone	mg/kg		NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Heptachlor	mg/kg	0.00077	NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Heptachlor epoxide	mg/kg	0.00042	NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Hexachlorobenzene	mg/kg	0.34	NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Methoxychlor	mg/kg	19.0	NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Chlordane	mg/kg	0.48	NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			
8081	Toxaphene	mg/kg	0.00042	NE	ND		NA		NA		NA		NA		ND		ND		ND		ND		ND			

**Notes**

Qualifiers J: The identification of the analyte is acceptable; the reported value is an estimate.

NA Not Analyzed

ND Not Detected

NE Not Established

**Bold Red** Indicates Exceedance of Screening Levels

## **APPENDIX A**

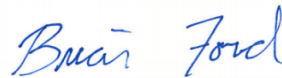
### **FULL ANALYTICAL RESULTS AND ORIGINAL LABORATORY REPORT**

## SLR International Corporation - Oakland

Sample Delivery Group: L1034052  
Samples Received: 10/11/2018  
Project Number: CHARITIES  
Description: 397 Blossom Hill

Report To: Julia Hamilton  
110 - 11th Street  
2nd Floor  
Oakland, CA 94607

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	<b><sup>1</sup>Cp</b>
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b><sup>2</sup>Tc</b>
<b>Cn: Case Narrative</b>	<b>6</b>	
<b>Sr: Sample Results</b>	<b>7</b>	<b><sup>3</sup>Ss</b>
<b>SB-1 L1034052-01</b>	<b>7</b>	
<b>SB-2 L1034052-02</b>	<b>8</b>	<b><sup>4</sup>Cn</b>
<b>SB-3 L1034052-03</b>	<b>9</b>	<b><sup>5</sup>Sr</b>
<b>SB-4 L1034052-04</b>	<b>10</b>	
<b>SB-5 L1034052-05</b>	<b>11</b>	<b><sup>6</sup>Qc</b>
<b>SB-6 L1034052-06</b>	<b>12</b>	
<b>SB-7 L1034052-07</b>	<b>13</b>	<b><sup>7</sup>Gl</b>
<b>SB-8 L1034052-08</b>	<b>14</b>	<b><sup>8</sup>Al</b>
<b>SB-9 L1034052-09</b>	<b>15</b>	
<b>SB-10 L1034052-10</b>	<b>16</b>	<b><sup>9</sup>Sc</b>
<b>SB-11 L1034052-11</b>	<b>17</b>	
<b>SB-12 L1034052-12</b>	<b>18</b>	
<b>SB-13 L1034052-13</b>	<b>19</b>	
<b>SB-14 L1034052-14</b>	<b>20</b>	
<b>SB-15 L1034052-15</b>	<b>21</b>	
<b>Qc: Quality Control Summary</b>	<b>22</b>	
<b>Total Solids by Method 2540 G-2011</b>	<b>22</b>	
<b>Metals (ICP) by Method 6010B</b>	<b>24</b>	
<b>Pesticides (GC) by Method 8081</b>	<b>25</b>	
<b>Gl: Glossary of Terms</b>	<b>29</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>30</b>	
<b>Sc: Sample Chain of Custody</b>	<b>31</b>	

# SAMPLE SUMMARY



## SB-1 L1034052-01 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 09:27  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181522	1	10/17/18 12:07	10/17/18 12:13	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 19:58	ST

1  
Cp

2  
Tc

3  
Ss

## SB-2 L1034052-02 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 09:31  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181522	1	10/17/18 12:07	10/17/18 12:13	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 20:01	ST

4  
Cn

5  
Sr

6  
Qc

## SB-3 L1034052-03 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 09:33  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181522	1	10/17/18 12:07	10/17/18 12:13	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 20:09	ST

7  
Gl

8  
Al

9  
Sc

## SB-4 L1034052-04 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 09:45  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181522	1	10/17/18 12:07	10/17/18 12:13	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 20:12	ST
Pesticides (GC) by Method 8081	WG1180410	1	10/13/18 08:51	10/13/18 19:42	VKS

## SB-5 L1034052-05 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 09:55  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181522	1	10/17/18 12:07	10/17/18 12:13	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 20:15	ST
Pesticides (GC) by Method 8081	WG1180410	1	10/13/18 08:51	10/13/18 19:56	VKS

## SB-6 L1034052-06 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 10:08  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181522	1	10/17/18 12:07	10/17/18 12:13	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 20:17	ST
Pesticides (GC) by Method 8081	WG1180410	1	10/13/18 08:51	10/13/18 20:11	VKS

## SB-7 L1034052-07 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 10:20  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181522	1	10/17/18 12:07	10/17/18 12:13	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 20:20	ST
Pesticides (GC) by Method 8081	WG1180410	1	10/13/18 08:51	10/13/18 20:26	VKS

# SAMPLE SUMMARY



## SB-8 L1034052-08 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 10:37  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181522	1	10/17/18 12:07	10/17/18 12:13	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 20:23	ST
Pesticides (GC) by Method 8081	WG1180410	1	10/13/18 08:51	10/13/18 20:41	VKS

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## SB-9 L1034052-09 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 10:50  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181522	1	10/17/18 12:07	10/17/18 12:13	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 20:26	ST
Pesticides (GC) by Method 8081	WG1180859	1	10/16/18 07:51	10/16/18 12:35	TD

## SB-10 L1034052-10 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 10:59  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181522	1	10/17/18 12:07	10/17/18 12:13	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 20:28	ST
Pesticides (GC) by Method 8081	WG1180859	1	10/16/18 07:51	10/16/18 12:47	TD

## SB-11 L1034052-11 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 11:20  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181523	1	10/17/18 12:01	10/17/18 12:06	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 20:31	ST
Pesticides (GC) by Method 8081	WG1180859	1	10/16/18 07:51	10/21/18 20:08	VKS

## SB-12 L1034052-12 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 11:48  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181523	1	10/17/18 12:01	10/17/18 12:06	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 19:45	ST

## SB-13 L1034052-13 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 11:50  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181523	1	10/17/18 12:01	10/17/18 12:06	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 20:34	ST

## SB-14 L1034052-14 Solid

Collected by  
Julia Hamilton  
Collected date/time  
10/10/18 11:51  
Received date/time  
10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181523	1	10/17/18 12:01	10/17/18 12:06	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 20:42	ST

# SAMPLE SUMMARY



SB-15 L1034052-15 Solid

Collected by: Julia Hamilton  
 Collected date/time: 10/10/18 11:53  
 Received date/time: 10/11/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181523	1	10/17/18 12:01	10/17/18 12:06	KS
Metals (ICP) by Method 6010B	WG1180523	1	10/15/18 05:23	10/15/18 20:44	ST

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.9		1	10/17/2018 12:13	<a href="#">WG1181522</a>

1 Cp

2 Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Lead	21.8		0.214	0.563	1	10/15/2018 19:58	<a href="#">WG1180523</a>

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.4		1	10/17/2018 12:13	<a href="#">WG1181522</a>

1 Cp

2 Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Lead	27.6		0.204	0.536	1	10/15/2018 20:01	<a href="#">WG1180523</a>

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.2		1	10/17/2018 12:13	<a href="#">WG1181522</a>

1 Cp

2 Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Lead	27.3		0.202	0.531	1	10/15/2018 20:09	<a href="#">WG1180523</a>

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/10/18 09:45

L1034052

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.4		1	10/17/2018 12:13	<a href="#">WG1181522</a>

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.85		0.572	2.49	1	10/15/2018 20:12	<a href="#">WG1180523</a>

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000290	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Alpha BHC	U		0.000240	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Beta BHC	U		0.000377	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Delta BHC	U		0.000188	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Gamma BHC	U		0.000305	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
4,4-DDD	U		0.000204	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
4,4-DDE	0.00472	J	0.000205	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
4,4-DDT	U		0.000331	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Dieldrin	0.000533	J	0.000111	0.00249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Endosulfan I	U		0.000266	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Endosulfan II	U		0.000286	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Endosulfan sulfate	U		0.000211	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Endrin	U		0.000272	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Endrin aldehyde	U		0.000301	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Endrin ketone	U		0.000198	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Heptachlor	U		0.000126	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Heptachlor epoxide	U		0.000470	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Hexachlorobenzene	U		0.000279	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Methoxychlor	U		0.000329	0.0249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Chlordane	U		0.0485	0.249	1	10/13/2018 19:42	<a href="#">WG1180410</a>
Toxaphene	U		0.0448	0.497	1	10/13/2018 19:42	<a href="#">WG1180410</a>
(S) Decachlorobiphenyl	73.3			10.0-135		10/13/2018 19:42	<a href="#">WG1180410</a>
(S) Tetrachloro-m-xylene	106			10.0-139		10/13/2018 19:42	<a href="#">WG1180410</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/10/18 09:55

L1034052

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.2		1	10/17/2018 12:13	<a href="#">WG1181522</a>

1 Cp

2 Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		0.553	2.40	1	10/15/2018 20:15	<a href="#">WG1180523</a>

3 Ss

4 Cn

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000280	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Alpha BHC	U		0.000232	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Beta BHC	U		0.000364	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Delta BHC	U		0.000182	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Gamma BHC	U		0.000295	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
4,4-DDD	U		0.000197	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
4,4-DDE	U		0.000198	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
4,4-DDT	U		0.000320	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Dieldrin	U		0.000107	0.00240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Endosulfan I	U		0.000257	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Endosulfan II	U		0.000277	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Endosulfan sulfate	U		0.000204	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Endrin	U		0.000263	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Endrin aldehyde	U		0.000291	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Endrin ketone	U		0.000191	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Heptachlor	U		0.000121	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Heptachlor epoxide	U		0.000454	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Hexachlorobenzene	U		0.000269	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Methoxychlor	U		0.000319	0.0240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Chlordane	U		0.0469	0.240	1	10/13/2018 19:56	<a href="#">WG1180410</a>
Toxaphene	U		0.0433	0.481	1	10/13/2018 19:56	<a href="#">WG1180410</a>
(S) Decachlorobiphenyl	74.5			10.0-135		10/13/2018 19:56	<a href="#">WG1180410</a>
(S) Tetrachloro-m-xylene	110			10.0-139		10/13/2018 19:56	<a href="#">WG1180410</a>

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.2		1	10/17/2018 12:13	<a href="#">WG1181522</a>

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		0.546	2.38	1	10/15/2018 20:17	<a href="#">WG1180523</a>

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000277	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Alpha BHC	U		0.000229	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Beta BHC	U		0.000360	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Delta BHC	U		0.000179	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Gamma BHC	U		0.000291	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
4,4-DDD	U		0.000195	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
4,4-DDE	U		0.000196	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
4,4-DDT	U		0.000316	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Dieldrin	U		0.000106	0.00238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Endosulfan I	U		0.000254	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Endosulfan II	U		0.000273	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Endosulfan sulfate	U		0.000202	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Endrin	U		0.000260	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Endrin aldehyde	U		0.000287	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Endrin ketone	U		0.000189	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Heptachlor	U		0.000120	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Heptachlor epoxide	U		0.000449	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Hexachlorobenzene	U		0.000266	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Methoxychlor	U		0.000315	0.0238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Chlordane	U		0.0463	0.238	1	10/13/2018 20:11	<a href="#">WG1180410</a>
Toxaphene	U		0.0428	0.475	1	10/13/2018 20:11	<a href="#">WG1180410</a>
(S) Decachlorobiphenyl	77.4			10.0-135		10/13/2018 20:11	<a href="#">WG1180410</a>
(S) Tetrachloro-m-xylene	116			10.0-139		10/13/2018 20:11	<a href="#">WG1180410</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/10/18 10:20

L1034052

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.1		1	10/17/2018 12:13	<a href="#">WG1181522</a>

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	7.43		0.534	2.32	1	10/15/2018 20:20	<a href="#">WG1180523</a>

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000271	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Alpha BHC	U		0.000224	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Beta BHC	U		0.000352	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Delta BHC	U		0.000175	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Gamma BHC	U		0.000285	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
4,4-DDD	0.000330	J	0.000190	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
4,4-DDE	0.00751	J	0.000192	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
4,4-DDT	U		0.000309	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Dieldrin	U		0.000103	0.00232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Endosulfan I	U		0.000249	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Endosulfan II	U		0.000267	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Endosulfan sulfate	U		0.000197	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Endrin	U		0.000254	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Endrin aldehyde	U		0.000281	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Endrin ketone	U		0.000185	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Heptachlor	U		0.000117	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Heptachlor epoxide	U		0.000439	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Hexachlorobenzene	U		0.000260	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Methoxychlor	U		0.000308	0.0232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Chlordane	U		0.0453	0.232	1	10/13/2018 20:26	<a href="#">WG1180410</a>
Toxaphene	U		0.0418	0.465	1	10/13/2018 20:26	<a href="#">WG1180410</a>
(S) Decachlorobiphenyl	59.0			10.0-135		10/13/2018 20:26	<a href="#">WG1180410</a>
(S) Tetrachloro-m-xylene	105			10.0-139		10/13/2018 20:26	<a href="#">WG1180410</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.0		1	10/17/2018 12:13	<a href="#">WG1181522</a>

1 Cp

2 Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	6.99		0.529	2.30	1	10/15/2018 20:23	<a href="#">WG1180523</a>

3 Ss

4 Cn

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000268	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Alpha BHC	U		0.000222	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Beta BHC	U		0.000348	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Delta BHC	U		0.000174	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Gamma BHC	U		0.000282	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
4,4-DDD	U		0.000188	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
4,4-DDE	0.00121	J	0.000190	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
4,4-DDT	U		0.000306	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Dieldrin	U		0.000102	0.00230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Endosulfan I	U		0.000246	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Endosulfan II	U		0.000264	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Endosulfan sulfate	U		0.000195	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Endrin	U		0.000252	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Endrin aldehyde	U		0.000278	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Endrin ketone	U		0.000183	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Heptachlor	U		0.000116	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Heptachlor epoxide	U		0.000434	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Hexachlorobenzene	U		0.000257	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Methoxychlor	U		0.000304	0.0230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Chlordane	U		0.0448	0.230	1	10/13/2018 20:41	<a href="#">WG1180410</a>
Toxaphene	U		0.0414	0.460	1	10/13/2018 20:41	<a href="#">WG1180410</a>
(S) Decachlorobiphenyl	62.5			10.0-135		10/13/2018 20:41	<a href="#">WG1180410</a>
(S) Tetrachloro-m-xylene	105			10.0-139		10/13/2018 20:41	<a href="#">WG1180410</a>

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.9		1	10/17/2018 12:13	<a href="#">WG1181522</a>

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		0.523	2.28	1	10/15/2018 20:26	<a href="#">WG1180523</a>

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000265	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Alpha BHC	U		0.000220	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Beta BHC	U		0.000345	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Delta BHC	U		0.000172	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Gamma BHC	U		0.000279	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
4,4-DDD	U		0.000187	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
4,4-DDE	U		0.000188	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
4,4-DDT	U		0.000303	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Dieldrin	U		0.000101	0.00228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Endosulfan I	U		0.000243	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Endosulfan II	U		0.000262	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Endosulfan sulfate	U		0.000193	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Endrin	U		0.000249	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Endrin aldehyde	U		0.000275	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Endrin ketone	U		0.000181	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Heptachlor	U		0.000115	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Heptachlor epoxide	U		0.000430	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Hexachlorobenzene	U		0.000255	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Methoxychlor	U		0.000302	0.0228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Chlordane	U		0.0444	0.228	1	10/16/2018 12:35	<a href="#">WG1180859</a>
Toxaphene	U		0.0410	0.455	1	10/16/2018 12:35	<a href="#">WG1180859</a>
(S) Decachlorobiphenyl	81.2			10.0-135		10/16/2018 12:35	<a href="#">WG1180859</a>
(S) Tetrachloro-m-xylene	88.3			10.0-139		10/16/2018 12:35	<a href="#">WG1180859</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	10/17/2018 12:13	<a href="#">WG1181522</a>

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		0.482	2.10	1	10/15/2018 20:28	<a href="#">WG1180523</a>

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000244	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Alpha BHC	U		0.000202	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Beta BHC	U		0.000318	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Delta BHC	U		0.000158	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Gamma BHC	U		0.000257	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
4,4-DDD	U		0.000172	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
4,4-DDE	U		0.000173	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
4,4-DDT	U		0.000279	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Dieldrin	U		0.0000933	0.00210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Endosulfan I	U		0.000224	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Endosulfan II	U		0.000241	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Endosulfan sulfate	U		0.000178	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Endrin	U		0.000230	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Endrin aldehyde	U		0.000254	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Endrin ketone	U		0.000167	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Heptachlor	U		0.000106	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Heptachlor epoxide	U		0.000396	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Hexachlorobenzene	U		0.000235	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Methoxychlor	U		0.000278	0.0210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Chlordane	U		0.0409	0.210	1	10/16/2018 12:47	<a href="#">WG1180859</a>
Toxaphene	U		0.0377	0.419	1	10/16/2018 12:47	<a href="#">WG1180859</a>
(S) Decachlorobiphenyl	99.4			10.0-135		10/16/2018 12:47	<a href="#">WG1180859</a>
(S) Tetrachloro-m-xylene	101			10.0-139		10/16/2018 12:47	<a href="#">WG1180859</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 10/10/18 11:20

L1034052

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.4		1	10/17/2018 12:06	<a href="#">WG1181523</a>

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		0.602	2.62	1	10/15/2018 20:31	<a href="#">WG1180523</a>

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000305	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Alpha BHC	U		0.000253	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Beta BHC	U		0.000397	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Delta BHC	U		0.000198	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Gamma BHC	U		0.000321	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
4,4-DDD	U		0.000215	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
4,4-DDE	U		0.000216	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
4,4-DDT	U		0.000348	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Dieldrin	U		0.000117	0.00262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Endosulfan I	U		0.000280	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Endosulfan II	U		0.000301	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Endosulfan sulfate	U		0.000223	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Endrin	U		0.000287	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Endrin aldehyde	U		0.000317	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Endrin ketone	U		0.000208	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Heptachlor	U		0.000132	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Heptachlor epoxide	U		0.000495	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Hexachlorobenzene	U		0.000293	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Methoxychlor	U		0.000347	0.0262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Chlordane	U		0.0511	0.262	1	10/21/2018 20:08	<a href="#">WG1180859</a>
Toxaphene	U		0.0471	0.524	1	10/21/2018 20:08	<a href="#">WG1180859</a>
(S) Decachlorobiphenyl	69.0			10.0-135		10/21/2018 20:08	<a href="#">WG1180859</a>
(S) Tetrachloro-m-xylene	81.4			10.0-139		10/21/2018 20:08	<a href="#">WG1180859</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.4		1	10/17/2018 12:06	<a href="#">WG1181523</a>

1 Cp

2 Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Lead	18.4		0.231	0.607	1	10/15/2018 19:45	<a href="#">WG1180523</a>

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	74.9		1	10/17/2018 12:06	<a href="#">WG1181523</a>

1 Cp

2 Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Lead	18.2		0.254	0.668	1	10/15/2018 20:34	<a href="#">WG1180523</a>

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.9		1	10/17/2018 12:06	<a href="#">WG1181523</a>

1 Cp

2 Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Lead	16.7		0.224	0.589	1	10/15/2018 20:42	<a href="#">WG1180523</a>

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.0		1	10/17/2018 12:06	<a href="#">WG1181523</a>

1 Cp

2 Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Lead	22.0		0.216	0.568	1	10/15/2018 20:44	<a href="#">WG1180523</a>

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3351718-1 10/17/18 12:13

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L1034052-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1034052-08 10/17/18 12:13 • (DUP) R3351718-3 10/17/18 12:13

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	87.0	86.7	1	0.415		10

<sup>7</sup> Gl

<sup>8</sup> Al

Laboratory Control Sample (LCS)

(LCS) R3351718-2 10/17/18 12:13

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3351715-1 10/17/18 12:06

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

L1034054-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1034054-03 10/17/18 12:06 • (DUP) R3351715-3 10/17/18 12:06

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	93.2	93.0	1	0.209		10

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3351715-2 10/17/18 12:06

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3350890-1 10/15/18 19:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.460	2.00
Lead	U		0.190	0.500

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3350890-2 10/15/18 19:40 • (LCSD) R3350890-3 10/15/18 19:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	98.1	97.8	98.1	97.8	80.0-120			0.307	20
Lead	100	101	101	101	101	80.0-120			0.259	20

L1034052-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1034052-12 10/15/18 19:45 • (MS) R3350890-6 10/15/18 19:53 • (MSD) R3350890-7 10/15/18 19:56

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	121	6.36	121	118	94.7	91.6	1	75.0-125			3.11	20
Lead	121	18.4	135	131	96.1	92.6	1	75.0-125			3.14	20



Method Blank (MB)

(MB) R3350837-1 10/13/18 16:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	111			10.0-135
(S) Tetrachloro-m-xylene	107			10.0-139

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3350837-2 10/13/18 16:30 • (LCSD) R3350837-3 10/13/18 16:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0666	0.0665	0.0799	99.8	120	34.0-136			18.3	38
Alpha BHC	0.0666	0.0667	0.0787	100	118	34.0-139			16.5	38
Beta BHC	0.0666	0.0657	0.0776	98.6	117	34.0-133			16.6	37
Delta BHC	0.0666	0.0652	0.0780	97.9	117	34.0-135			17.9	38
Gamma BHC	0.0666	0.0642	0.0760	96.4	114	34.0-136			16.8	38
4,4-DDD	0.0666	0.0691	0.0834	104	125	33.0-141			18.8	39
4,4-DDE	0.0666	0.0675	0.0816	101	123	34.0-134			18.9	38
4,4-DDT	0.0666	0.0556	0.0669	83.5	100	30.0-143			18.4	40
Dieldrin	0.0666	0.0676	0.0810	102	122	35.0-137			18.0	37
Endosulfan I	0.0666	0.0664	0.0796	99.7	120	34.0-134			18.1	37



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3350837-2 10/13/18 16:30 • (LCSD) R3350837-3 10/13/18 16:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Endosulfan II	0.0666	0.0627	0.0749	94.1	112	35.0-132			17.7	38
Endosulfan sulfate	0.0666	0.0683	0.0812	103	122	35.0-132			17.3	37
Endrin	0.0666	0.0615	0.0742	92.3	111	34.0-137			18.7	37
Endrin aldehyde	0.0666	0.0665	0.0794	99.8	119	23.0-121			17.7	39
Endrin ketone	0.0666	0.0680	0.0819	102	123	35.0-144			18.5	37
Heptachlor	0.0666	0.0637	0.0762	95.6	114	36.0-141			17.9	37
Heptachlor epoxide	0.0666	0.0678	0.0810	102	122	36.0-134			17.7	37
Hexachlorobenzene	0.0666	0.0625	0.0753	93.8	113	33.0-129			18.6	37
Methoxychlor	0.0666	0.0523	0.0632	78.5	94.9	28.0-150			18.9	38
<i>(S) Decachlorobiphenyl</i>				74.9	113	10.0-135				
<i>(S) Tetrachloro-m-xylene</i>				78.4	113	10.0-139				

L1034245-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1034245-02 10/13/18 21:10 • (MS) R3350837-4 10/13/18 21:25 • (MSD) R3350837-5 10/13/18 21:40

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Aldrin	0.0847	ND	0.0851	0.107	100	126	1	20.0-135			22.9	37
Alpha BHC	0.0847	ND	0.107	0.123	127	145	1	27.0-140	<u>J5</u>		13.5	35
Beta BHC	0.0847	ND	0.0993	0.115	117	136	1	23.0-141			14.9	37
Delta BHC	0.0847	ND	0.0969	0.114	114	135	1	21.0-138			16.2	35
Gamma BHC	0.0847	ND	0.0963	0.111	114	131	1	27.0-137			14.2	36
4,4-DDD	0.0847	ND	0.102	0.132	120	156	1	15.0-152	<u>J5</u>		26.1	39
4,4-DDE	0.0847	ND	0.0794	0.103	93.7	122	1	10.0-152			26.2	40
4,4-DDT	0.0847	ND	0.0182	0.0277	21.5	32.7	1	10.0-151	<u>J3</u>		41.6	40
Dieldrin	0.0847	ND	0.0883	0.110	104	130	1	17.0-145			22.3	37
Endosulfan I	0.0847	ND	0.0881	0.108	104	128	1	20.0-137			20.5	36
Endosulfan II	0.0847	ND	0.0885	0.111	105	130	1	15.0-141			22.1	37
Endosulfan sulfate	0.0847	ND	0.0870	0.108	103	127	1	15.0-143			21.4	38
Endrin	0.0847	ND	0.0781	0.0974	92.2	115	1	19.0-143			22.0	37
Endrin aldehyde	0.0847	ND	0.0842	0.108	99.4	127	1	10.0-139			24.8	40
Endrin ketone	0.0847	ND	0.0674	0.0857	79.6	101	1	17.0-149			23.9	38
Heptachlor	0.0847	ND	0.0663	0.0820	78.2	96.8	1	22.0-138			21.3	37
Heptachlor epoxide	0.0847	ND	0.0908	0.112	107	132	1	22.0-138			20.8	36
Hexachlorobenzene	0.0847	ND	0.0876	0.104	103	123	1	25.0-126			17.4	35
Methoxychlor	0.0847	ND	0.0240	0.0343	28.4	40.5	1	10.0-159			35.3	40
<i>(S) Decachlorobiphenyl</i>					63.2	86.3		10.0-135				
<i>(S) Tetrachloro-m-xylene</i>					105	121		10.0-139				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3352275-3 10/16/18 12:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	113			10.0-135
(S) Tetrachloro-m-xylene	95.3			10.0-139

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Gl
- <sup>8</sup>Al
- <sup>9</sup>Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3352275-1 10/16/18 11:58 • (LCSD) R3352275-2 10/16/18 12:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0666	0.0484	0.0551	72.7	82.7	34.0-136			12.9	38
Alpha BHC	0.0666	0.0516	0.0584	77.5	87.7	34.0-139			12.4	38
Beta BHC	0.0666	0.0492	0.0556	73.9	83.5	34.0-133			12.2	37
Delta BHC	0.0666	0.0488	0.0555	73.3	83.3	34.0-135			12.8	38
Gamma BHC	0.0666	0.0474	0.0531	71.2	79.7	34.0-136			11.3	38
4,4-DDD	0.0666	0.0477	0.0552	71.6	82.9	33.0-141			14.6	39
4,4-DDE	0.0666	0.0509	0.0588	76.4	88.3	34.0-134			14.4	38
4,4-DDT	0.0666	0.0489	0.0580	73.4	87.1	30.0-143			17.0	40
Dieldrin	0.0666	0.0483	0.0553	72.5	83.0	35.0-137			13.5	37
Endosulfan I	0.0666	0.0468	0.0540	70.3	81.1	34.0-134			14.3	37



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3352275-1 10/16/18 11:58 • (LCSD) R3352275-2 10/16/18 12:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0666	0.0438	0.0508	65.8	76.3	35.0-132			14.8	38
Endosulfan sulfate	0.0666	0.0526	0.0609	79.0	91.4	35.0-132			14.6	37
Endrin	0.0666	0.0499	0.0572	74.9	85.9	34.0-137			13.6	37
Endrin aldehyde	0.0666	0.0478	0.0563	71.8	84.5	23.0-121			16.3	39
Endrin ketone	0.0666	0.0507	0.0587	76.1	88.1	35.0-144			14.6	37
Heptachlor	0.0666	0.0480	0.0547	72.1	82.1	36.0-141			13.0	37
Heptachlor epoxide	0.0666	0.0471	0.0531	70.7	79.7	36.0-134			12.0	37
Hexachlorobenzene	0.0666	0.0527	0.0603	79.1	90.5	33.0-129			13.5	37
Methoxychlor	0.0666	0.0546	0.0634	82.0	95.2	28.0-150			14.9	38
(S) Decachlorobiphenyl				97.9	106	10.0-135				
(S) Tetrachloro-m-xylene				88.3	93.1	10.0-139				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1034052-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1034052-10 10/16/18 12:47 • (MS) R3352275-4 10/16/18 12:59 • (MSD) R3352275-5 10/16/18 13:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0698	U	0.0567	0.0622	81.2	89.0	1	20.0-135	P		9.17	37
Alpha BHC	0.0698	U	0.0612	0.0665	87.7	95.2	1	27.0-140			8.21	35
Beta BHC	0.0698	U	0.0547	0.0616	78.4	88.3	1	23.0-141	P		11.9	37
Delta BHC	0.0698	U	0.0549	0.0621	78.7	88.9	1	21.0-138	P		12.2	35
Gamma BHC	0.0698	U	0.0556	0.0611	79.6	87.5	1	27.0-137			9.52	36
4,4-DDD	0.0698	U	0.0541	0.0631	77.5	90.4	1	15.0-152	P		15.4	39
4,4-DDE	0.0698	U	0.0580	0.0658	83.0	94.3	1	10.0-152	P		12.7	40
4,4-DDT	0.0698	U	0.0556	0.0648	79.6	92.8	1	10.0-151			15.3	40
Dieldrin	0.0698	U	0.0553	0.0634	79.3	90.8	1	17.0-145	P		13.6	37
Endosulfan I	0.0698	U	0.0535	0.0608	76.6	87.1	1	20.0-137	P		12.8	36
Endosulfan II	0.0698	U	0.0493	0.0578	70.6	82.7	1	15.0-141	P		15.9	37
Endosulfan sulfate	0.0698	U	0.0594	0.0699	85.1	100	1	15.0-143			16.2	38
Endrin	0.0698	U	0.0561	0.0653	80.3	93.5	1	19.0-143			15.2	37
Endrin aldehyde	0.0698	U	0.0566	0.0667	81.1	95.5	1	10.0-139			16.3	40
Endrin ketone	0.0698	U	0.0573	0.0669	82.1	95.8	1	17.0-149	P		15.4	38
Heptachlor	0.0698	U	0.0546	0.0600	78.2	85.9	1	22.0-138			9.33	37
Heptachlor epoxide	0.0698	U	0.0542	0.0612	77.6	87.7	1	22.0-138	P		12.2	36
Hexachlorobenzene	0.0698	U	0.0623	0.0667	89.2	95.5	1	25.0-126			6.83	35
Methoxychlor	0.0698	U	0.0624	0.0700	89.3	100	1	10.0-159			11.6	40
(S) Decachlorobiphenyl					103	105		10.0-135				
(S) Tetrachloro-m-xylene					94.6	98.8		10.0-139				



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
P	RPD between the primary and confirmatory analysis exceeded 40%.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

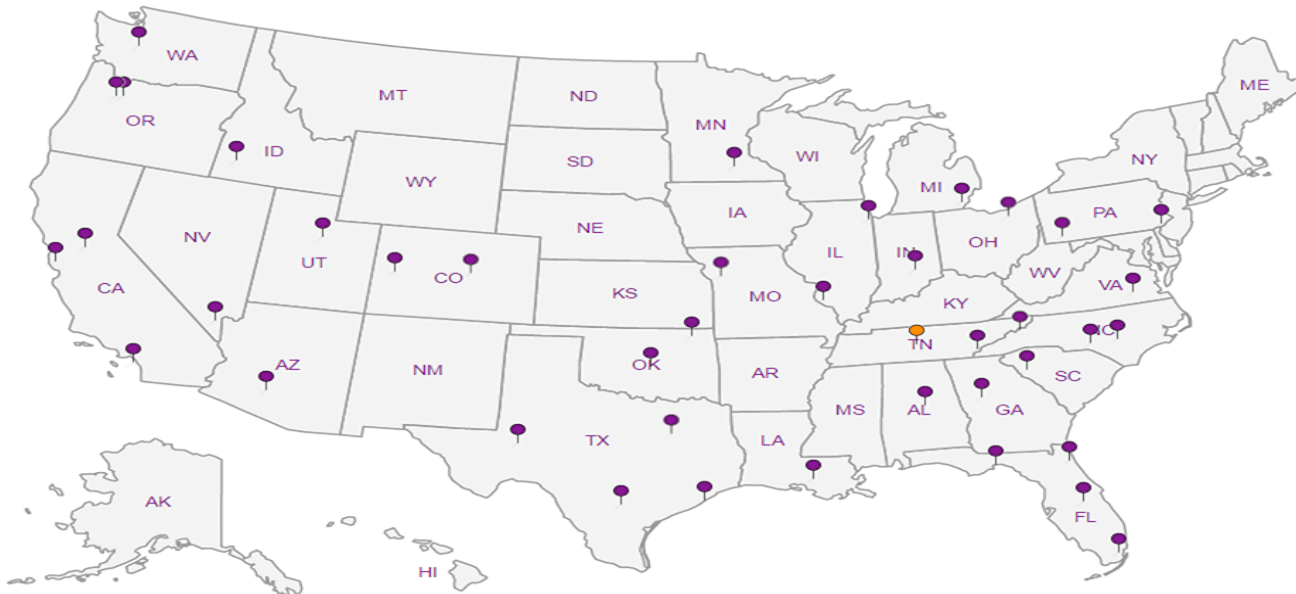
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**SLR International Corporation - Oakland**

Billing Information:  
 Attn: Accounts Payable  
 110 11th St., 2nd Floor  
 Oakland, CA 94607

110 - 11th Street

Report to:  
 Julia Hamilton

Email To: [jhamilton@slrconsulting.com](mailto:jhamilton@slrconsulting.com)

Project Description: 397 Blossom Hill

City/State Collected: San Jose, CA

Phone: 510-451-1761  
 Fax:

Client Project #  
 Charities

Lab Project #  
 SLROCA-HAMILTON

Collected by (print):  
 Julia Hamilton

Site/Facility ID #

P.O. #

Collected by (signature):  
 [Signature]  
 Immediately Packed on Ice  N  Y

Rush? (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #

Date Results Needed  
 STD TAT

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

**Pace Analytical**  
 National Center for Testing & Services

12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



L # L1034052  
 G154

Acctnum: SLROCA

Template: T141528

Prelogin: P675959

TSR: 110 - Brian Ford

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Ctr's	OCPS by 8081 4ozClr-NoPres	Argenic (EPA 6010B)	Pesticides (EPA 8081)	Lead	Remarks	Sample # (lab only)
SB-1	Grab	SS	0.5 ft	10/10/18	9:27am					X		-01
SB-2		SS			9:31am					X		-02
SB-3		SS			9:33am					X		-03
SB-4		SS			9:45am			X	X			-04
SB-5		SS			9:55am			X	X			-05
SB-6		SS			10:08am			X	X			-06
SB-7		SS			10:20am			X	X			-07
SB-8		SS			10:37am			X	X			-08
SB-9		SS			10:50am			X	X			-09
SB-10		SS			10:59am			X	X			-10

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks:

ADP... 2500hr

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS  FedEx  Courier

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N

If Applicable

VOA Zero Headpace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature) [Signature]	Date: 10/10/18	Time: 1:20 pm	Received by: (Signature) B. Pace	Trip Blank Received: Yes / No HCL / MeOH TBR
Relinquished by: (Signature) B. Pace	Date: 10/10/18	Time: 1630	Received by: (Signature) FedEx	Temp: °C 1.0 ± 0.04 Bottles Received: 10
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Malik Tashkale	Date: 10/11/18 Time: 8:45

If preservation required by Login: Date/Time

Hold:

Condition:  
 NCF / OK

**SLR International Corporation - Oakland**

110 - 11th Street

Report to:  
**Julia Hamilton**

Project Description: **397 Blossom Hill**

Phone: **510-451-1761**  
Fax:

Collected by (print):  
**Julia Hamilton**

Collected by (signature):  
*Julia Hamilton*  
Immediately Packed on Ice: N  Y

Client Project # **Charities 397 Blossom Hill**

Site/Facility ID #

**Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

City/State Collected:

Lab Project # **SLROCA-HAMILTON**

P.O. #

Quote #

Date Results Needed

**STD TAT**

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page **2** of **2**



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



L# **L1034052**

Table #

Acctnum: **SLROCA**

Template: **T141528**

Prelogin: **P675959**

TSR: **110 - Brian Ford**

PB:

Shipped Via:

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	OCPS by 8081 4ozClr-NoPres	ARSENIC (EPA 6010B)	PESTICIDES (EPA 8081)	Lead
SB-11	Grab	SS	0.5ft	10/10/18	11:20am			X	X	
SB-12	↓	SS	↓	↓	11:48am				X	
SB-13	↓	SS	↓	↓	11:50am				X	
SB-14	↓	SS	↓	↓	11:51am				X	
SB-15	↓	SS	↓	↓	11:53am				X	
		SS								
		SS								
		SS								
		SS								
		SS								
		SS								
		SS								

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: **RAD SCREEN: <0.5 mR/hr**

Samples returned via:  
 UPS  FedEx  Courier

Tracking #

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist:

CDC Seal Present/Intact:  Y  N  
 CDC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

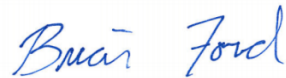
Relinquished by: (Signature) <i>Julia Hamilton</i>	Date: 10/10/18	Time: 1:20pm	Received by: (Signature) <i>PACE</i>	Trip Blank Received: Yes/No HCL/MeOH TBR
Relinquished by: (Signature) <i>PACE</i>	Date: 10/10/18	Time: 1630	Received by: (Signature) <i>FedEx</i>	Temp: °C 1.0±0.04 Bottles Received: 5
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>Malik Tisdale</i>	Date: 10/11/18 Time: 8:45 Hold: Condition: NCF / <input checked="" type="checkbox"/> OK

November 23, 2018

## SLR International Corporation - Oakland

Sample Delivery Group: L1044789  
Samples Received: 11/15/2018  
Project Number:  
Description: 397 Blossom Hill Rd  
  
Report To: Julia Hamilton  
110 - 11th Street  
2nd Floor  
Oakland, CA 94607










Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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# SAMPLE SUMMARY



## SB-16 L1044789-01 Solid

Collected by  
Julia Hamilton  
Collected date/time  
11/14/18 09:55  
Received date/time  
11/15/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1199334	1	11/20/18 11:16	11/20/18 11:28	KBC
Pesticides (GC) by Method 8081	WG1198166	1	11/17/18 16:33	11/19/18 13:46	ADF

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## SB-17 L1044789-02 Solid

Collected by  
Julia Hamilton  
Collected date/time  
11/14/18 10:04  
Received date/time  
11/15/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1199334	1	11/20/18 11:16	11/20/18 11:28	KBC
Pesticides (GC) by Method 8081	WG1198166	1	11/17/18 16:33	11/19/18 13:58	ADF

## SB-18 L1044789-03 Solid

Collected by  
Julia Hamilton  
Collected date/time  
11/14/18 10:11  
Received date/time  
11/15/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1199334	1	11/20/18 11:16	11/20/18 11:28	KBC
Pesticides (GC) by Method 8081	WG1198166	1	11/17/18 16:33	11/19/18 14:11	ADF

## SB-19 L1044789-04 Solid

Collected by  
Julia Hamilton  
Collected date/time  
11/14/18 10:20  
Received date/time  
11/15/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1199335	1	11/20/18 10:54	11/20/18 11:09	KBC
Pesticides (GC) by Method 8081	WG1200093	1	11/19/18 13:40	11/21/18 20:02	ADF

## SB-20 L1044789-05 Solid

Collected by  
Julia Hamilton  
Collected date/time  
11/14/18 10:26  
Received date/time  
11/15/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1199335	1	11/20/18 10:54	11/20/18 11:09	KBC
Pesticides (GC) by Method 8081	WG1200093	1	11/19/18 13:40	11/21/18 18:09	TD



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.5		1	11/20/2018 11:28	<a href="#">WG1199334</a>

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000269	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Alpha BHC	U		0.000223	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Beta BHC	U		0.000350	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Delta BHC	U		0.000175	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Gamma BHC	U		0.000283	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
4,4-DDD	U		0.000190	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
4,4-DDE	U		0.000191	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
4,4-DDT	U		0.000308	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Dieldrin	U		0.000103	0.00231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Endosulfan I	U		0.000247	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Endosulfan II	U		0.000266	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Endosulfan sulfate	U		0.000197	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Endrin	U		0.000253	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Endrin aldehyde	U		0.000280	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Endrin ketone	U		0.000184	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Heptachlor	U		0.000117	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Heptachlor epoxide	U		0.000437	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Hexachlorobenzene	U		0.000259	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Methoxychlor	U		0.000306	0.0231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Chlordane	U		0.0451	0.231	1	11/19/2018 13:46	<a href="#">WG1198166</a>
Toxaphene	U		0.0416	0.463	1	11/19/2018 13:46	<a href="#">WG1198166</a>
(S) Decachlorobiphenyl	73.8			10.0-135		11/19/2018 13:46	<a href="#">WG1198166</a>
(S) Tetrachloro-m-xylene	83.3			10.0-139		11/19/2018 13:46	<a href="#">WG1198166</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.4		1	11/20/2018 11:28	<a href="#">WG1199334</a>

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000273	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Alpha BHC	U		0.000226	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Beta BHC	U		0.000355	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Delta BHC	U		0.000177	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Gamma BHC	U		0.000287	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
4,4-DDD	U		0.000192	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
4,4-DDE	U		0.000193	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
4,4-DDT	U		0.000311	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Dieldrin	U		0.000104	0.00234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Endosulfan I	U		0.000251	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Endosulfan II	U		0.000269	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Endosulfan sulfate	U		0.000199	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Endrin	U		0.000256	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Endrin aldehyde	U		0.000283	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Endrin ketone	U		0.000186	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Heptachlor	U		0.000118	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Heptachlor epoxide	U		0.000443	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Hexachlorobenzene	U		0.000262	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Methoxychlor	U		0.000310	0.0234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Chlordane	U		0.0457	0.234	1	11/19/2018 13:58	<a href="#">WG1198166</a>
Toxaphene	U		0.0421	0.468	1	11/19/2018 13:58	<a href="#">WG1198166</a>
(S) Decachlorobiphenyl	74.1			10.0-135		11/19/2018 13:58	<a href="#">WG1198166</a>
(S) Tetrachloro-m-xylene	84.2			10.0-139		11/19/2018 13:58	<a href="#">WG1198166</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.3		1	11/20/2018 11:28	<a href="#">WG1199334</a>

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000267	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Alpha BHC	U		0.000221	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Beta BHC	U		0.000347	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Delta BHC	U		0.000173	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Gamma BHC	U		0.000281	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
4,4-DDD	U		0.000188	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
4,4-DDE	U		0.000189	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
4,4-DDT	U		0.000305	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Dieldrin	U		0.000102	0.00229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Endosulfan I	U		0.000245	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Endosulfan II	U		0.000264	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Endosulfan sulfate	U		0.000195	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Endrin	U		0.000251	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Endrin aldehyde	U		0.000277	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Endrin ketone	U		0.000182	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Heptachlor	U		0.000116	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Heptachlor epoxide	U		0.000433	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Hexachlorobenzene	U		0.000257	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Methoxychlor	U		0.000304	0.0229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Chlordane	U		0.0447	0.229	1	11/19/2018 14:11	<a href="#">WG1198166</a>
Toxaphene	U		0.0413	0.458	1	11/19/2018 14:11	<a href="#">WG1198166</a>
(S) Decachlorobiphenyl	72.1			10.0-135		11/19/2018 14:11	<a href="#">WG1198166</a>
(S) Tetrachloro-m-xylene	87.6			10.0-139		11/19/2018 14:11	<a href="#">WG1198166</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 11/14/18 10:20

L1044789

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.7		1	11/20/2018 11:09	<a href="#">WG1199335</a>

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000282	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Alpha BHC	U		0.000233	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Beta BHC	U		0.000366	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Delta BHC	U		0.000183	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Gamma BHC	U		0.000296	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
4,4-DDD	U		0.000198	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
4,4-DDE	0.00348	J	0.000200	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
4,4-DDT	U		0.000322	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Dieldrin	U		0.000108	0.00242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Endosulfan I	U		0.000259	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Endosulfan II	U		0.000278	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Endosulfan sulfate	U		0.000206	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Endrin	U		0.000265	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Endrin aldehyde	U		0.000293	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Endrin ketone	U		0.000192	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Heptachlor	U		0.000122	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Heptachlor epoxide	U		0.000457	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Hexachlorobenzene	U		0.000271	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Methoxychlor	U		0.000320	0.0242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Chlordane	U		0.0472	0.242	1	11/21/2018 20:02	<a href="#">WG1200093</a>
Toxaphene	U		0.0435	0.484	1	11/21/2018 20:02	<a href="#">WG1200093</a>
(S) Decachlorobiphenyl	44.3			10.0-135		11/21/2018 20:02	<a href="#">WG1200093</a>
(S) Tetrachloro-m-xylene	59.4			10.0-139		11/21/2018 20:02	<a href="#">WG1200093</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.3		1	11/20/2018 11:09	<a href="#">WG1199335</a>

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000290	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Alpha BHC	U		0.000240	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Beta BHC	0.000390	<u>J P</u>	0.000377	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Delta BHC	U		0.000188	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Gamma BHC	U		0.000305	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
4,4-DDD	U		0.000204	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
4,4-DDE	0.00240	<u>J</u>	0.000205	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
4,4-DDT	U		0.000331	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Dieldrin	U		0.000111	0.00249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Endosulfan I	U		0.000266	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Endosulfan II	U		0.000286	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Endosulfan sulfate	U		0.000212	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Endrin	U		0.000273	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Endrin aldehyde	U		0.000301	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Endrin ketone	U		0.000198	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Heptachlor	U		0.000126	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Heptachlor epoxide	U		0.000471	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Hexachlorobenzene	U		0.000279	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Methoxychlor	U		0.000330	0.0249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Chlordane	U		0.0486	0.249	1	11/21/2018 18:09	<a href="#">WG1200093</a>
Toxaphene	U		0.0448	0.498	1	11/21/2018 18:09	<a href="#">WG1200093</a>
(S) Decachlorobiphenyl	53.1			10.0-135		11/21/2018 18:09	<a href="#">WG1200093</a>
(S) Tetrachloro-m-xylene	59.1			10.0-139		11/21/2018 18:09	<a href="#">WG1200093</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3361860-1 11/20/18 11:28

Analyte	MB Result %	<u>MB Qualifier</u>	MB MDL %	MB RDL %
Total Solids	0.000			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L1044723-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1044723-01 11/20/18 11:28 • (DUP) R3361860-3 11/20/18 11:28

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits
Total Solids	93.2	93.2	1	0.0432		10

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3361860-2 11/20/18 11:28

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3361859-1 11/20/18 11:09

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L1044809-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1044809-06 11/20/18 11:09 • (DUP) R3361859-3 11/20/18 11:09

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	80.6	80.2	1	0.464		10

<sup>7</sup> Gl

<sup>8</sup> Al

Laboratory Control Sample (LCS)

(LCS) R3361859-2 11/20/18 11:09

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3361571-3 11/19/18 10:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	83.0			10.0-135
(S) Tetrachloro-m-xylene	94.6			10.0-139

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Gl
- <sup>8</sup>Al
- <sup>9</sup>Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3361571-1 11/19/18 09:59 • (LCSD) R3361571-2 11/19/18 10:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0666	0.0432	0.0445	64.9	66.8	34.0-136			2.96	38
Alpha BHC	0.0666	0.0438	0.0452	65.8	67.9	34.0-139			3.15	38
Beta BHC	0.0666	0.0426	0.0440	64.0	66.1	34.0-133			3.23	37
Delta BHC	0.0666	0.0423	0.0438	63.5	65.8	34.0-135			3.48	38
Gamma BHC	0.0666	0.0430	0.0444	64.6	66.7	34.0-136			3.20	38
4,4-DDD	0.0666	0.0425	0.0442	63.8	66.4	33.0-141			3.92	39
4,4-DDE	0.0666	0.0404	0.0417	60.7	62.6	34.0-134			3.17	38
4,4-DDT	0.0666	0.0370	0.0385	55.6	57.8	30.0-143			3.97	40
Dieldrin	0.0666	0.0473	0.0492	71.0	73.9	35.0-137			3.94	37
Endosulfan I	0.0666	0.0429	0.0441	64.4	66.2	34.0-134			2.76	37



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3361571-1 11/19/18 09:59 • (LCSD) R3361571-2 11/19/18 10:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Endosulfan II	0.0666	0.0400	0.0414	60.1	62.2	35.0-132			3.44	38
Endosulfan sulfate	0.0666	0.0435	0.0453	65.3	68.0	35.0-132			4.05	37
Endrin	0.0666	0.0433	0.0450	65.0	67.6	34.0-137			3.85	37
Endrin aldehyde	0.0666	0.0422	0.0451	63.4	67.7	23.0-121			6.64	39
Endrin ketone	0.0666	0.0472	0.0494	70.9	74.2	35.0-144			4.55	37
Heptachlor	0.0666	0.0454	0.0472	68.2	70.9	36.0-141			3.89	37
Heptachlor epoxide	0.0666	0.0458	0.0474	68.8	71.2	36.0-134			3.43	37
Hexachlorobenzene	0.0666	0.0404	0.0408	60.7	61.3	33.0-129			0.985	37
Methoxychlor	0.0666	0.0403	0.0424	60.5	63.7	28.0-150			5.08	38
<i>(S) Decachlorobiphenyl</i>				65.9	71.3	10.0-135				
<i>(S) Tetrachloro-m-xylene</i>				71.9	77.0	10.0-139				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1043238-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1043238-25 11/19/18 11:40 • (MS) R3361571-4 11/19/18 11:53 • (MSD) R3361571-5 11/19/18 12:05

Analyte	Spike Amount mg/kg	Original Result	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Aldrin	0.0666		0.0482	0.0513	72.4	77.0	1	20.0-135			6.23	37
Alpha BHC	0.0666		0.0599	0.0576	89.9	86.5	1	27.0-140			3.91	35
Beta BHC	0.0666		0.0583	0.0549	87.5	82.4	1	23.0-141			6.01	37
Delta BHC	0.0666		0.0594	0.0561	89.2	84.2	1	21.0-138			5.71	35
Gamma BHC	0.0666	U	0.0588	0.0563	88.3	84.5	1	27.0-137			4.34	36
4,4-DDD	0.0666		0.0497	0.0513	74.6	77.0	1	15.0-152			3.17	39
4,4-DDE	0.0666		0.0448	0.0478	67.3	71.8	1	10.0-152			6.48	40
4,4-DDT	0.0666		0.0400	0.0425	60.1	63.8	1	10.0-151			6.06	40
Dieldrin	0.0666		0.0599	0.0603	89.9	90.5	1	17.0-145			0.666	37
Endosulfan I	0.0666		0.0526	0.0524	79.0	78.7	1	20.0-137			0.381	36
Endosulfan II	0.0666		0.0516	0.0502	77.5	75.4	1	15.0-141			2.75	37
Endosulfan sulfate	0.0666		0.0587	0.0560	88.1	84.1	1	15.0-143			4.71	38
Endrin	0.0666		0.0544	0.0542	81.7	81.4	1	19.0-143			0.368	37
Endrin aldehyde	0.0666		0.0623	0.0584	93.5	87.7	1	10.0-139			6.46	40
Endrin ketone	0.0666		0.0645	0.0622	96.8	93.4	1	17.0-149			3.63	38
Heptachlor	0.0666		0.0486	0.0519	73.0	77.9	1	22.0-138			6.57	37
Heptachlor epoxide	0.0666		0.0562	0.0560	84.4	84.1	1	22.0-138			0.357	36
Hexachlorobenzene	0.0666		0.0476	0.0490	71.5	73.6	1	25.0-126			2.90	35
Methoxychlor	0.0666		0.0442	0.0477	66.4	71.6	1	10.0-159			7.62	40
<i>(S) Decachlorobiphenyl</i>					70.4	73.1		10.0-135				
<i>(S) Tetrachloro-m-xylene</i>					82.7	83.2		10.0-139				



Method Blank (MB)

(MB) R3362147-3 11/21/18 15:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	89.6			10.0-135
(S) Tetrachloro-m-xylene	83.9			10.0-139

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3362147-1 11/21/18 14:49 • (LCSD) R3362147-2 11/21/18 15:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0666	0.0558	0.0571	83.8	85.7	34.0-136			2.30	38
Alpha BHC	0.0666	0.0581	0.0590	87.2	88.6	34.0-139			1.54	38
Beta BHC	0.0666	0.0570	0.0579	85.6	86.9	34.0-133			1.57	37
Delta BHC	0.0666	0.0577	0.0587	86.6	88.1	34.0-135			1.72	38
Gamma BHC	0.0666	0.0583	0.0591	87.5	88.7	34.0-136			1.36	38
4,4-DDD	0.0666	0.0641	0.0656	96.2	98.5	33.0-141			2.31	39
4,4-DDE	0.0666	0.0546	0.0557	82.0	83.6	34.0-134			1.99	38
4,4-DDT	0.0666	0.0581	0.0586	87.2	88.0	30.0-143			0.857	40
Dieldrin	0.0666	0.0678	0.0691	102	104	35.0-137			1.90	37
Endosulfan I	0.0666	0.0561	0.0570	84.2	85.6	34.0-134			1.59	37





Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3362147-1 11/21/18 14:49 • (LCSD) R3362147-2 11/21/18 15:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0666	0.0530	0.0542	79.6	81.4	35.0-132			2.24	38
Endosulfan sulfate	0.0666	0.0599	0.0611	89.9	91.7	35.0-132			1.98	37
Endrin	0.0666	0.0624	0.0633	93.7	95.0	34.0-137			1.43	37
Endrin aldehyde	0.0666	0.0590	0.0607	88.6	91.1	23.0-121			2.84	39
Endrin ketone	0.0666	0.0694	0.0710	104	107	35.0-144			2.28	37
Heptachlor	0.0666	0.0671	0.0685	101	103	36.0-141			2.06	37
Heptachlor epoxide	0.0666	0.0621	0.0630	93.2	94.6	36.0-134			1.44	37
Hexachlorobenzene	0.0666	0.0503	0.0511	75.5	76.7	33.0-129			1.58	37
Methoxychlor	0.0666	0.0636	0.0642	95.5	96.4	28.0-150			0.939	38
(S) Decachlorobiphenyl				83.0	81.4	10.0-135				
(S) Tetrachloro-m-xylene				79.1	76.6	10.0-139				

L1044789-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1044789-05 11/21/18 18:09 • (MS) R3362147-4 11/21/18 18:22 • (MSD) R3362147-5 11/21/18 18:34

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0829	U	0.0483	0.0391	58.3	47.1	1	20.0-135			21.1	37
Alpha BHC	0.0829	U	0.0540	0.0440	65.2	53.0	1	27.0-140			20.6	35
Beta BHC	0.0829	0.000390	0.0552	0.0443	66.5	53.5	1	23.0-141			21.8	37
Delta BHC	0.0829	U	0.0425	0.0341	51.2	41.1	1	21.0-138			21.8	35
Gamma BHC	0.0829	U	0.0544	0.0438	65.6	52.9	1	27.0-137			21.5	36
4,4-DDD	0.0829	U	0.0573	0.0454	69.1	54.8	1	15.0-152			23.0	39
4,4-DDE	0.0829	0.00240	0.0477	0.0385	54.6	43.5	1	10.0-152			21.4	40
4,4-DDT	0.0829	U	0.0466	0.0342	56.2	41.3	1	10.0-151			30.5	40
Dieldrin	0.0829	U	0.0581	0.0444	70.1	53.6	1	17.0-145			26.7	37
Endosulfan I	0.0829	U	0.0448	0.0359	54.1	43.2	1	20.0-137			22.2	36
Endosulfan II	0.0829	U	0.0406	0.0320	48.9	38.6	1	15.0-141			23.7	37
Endosulfan sulfate	0.0829	U	0.0471	0.0364	56.8	43.8	1	15.0-143			25.7	38
Endrin	0.0829	U	0.0552	0.0430	66.5	51.8	1	19.0-143			24.9	37
Endrin aldehyde	0.0829	U	0.0446	0.0347	53.8	41.9	1	10.0-139			24.8	40
Endrin ketone	0.0829	U	0.0534	0.0405	64.4	48.8	1	17.0-149			27.6	38
Heptachlor	0.0829	U	0.0679	0.0550	81.8	66.4	1	22.0-138			20.9	37
Heptachlor epoxide	0.0829	U	0.0549	0.0442	66.2	53.3	1	22.0-138			21.6	36
Hexachlorobenzene	0.0829	U	0.0487	0.0403	58.7	48.6	1	25.0-126			18.7	35
Methoxychlor	0.0829	U	0.0523	0.0407	63.1	49.1	1	10.0-159			24.9	40
(S) Decachlorobiphenyl					46.8	37.7		10.0-135				
(S) Tetrachloro-m-xylene					60.4	52.1		10.0-139				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
P	RPD between the primary and confirmatory analysis exceeded 40%.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

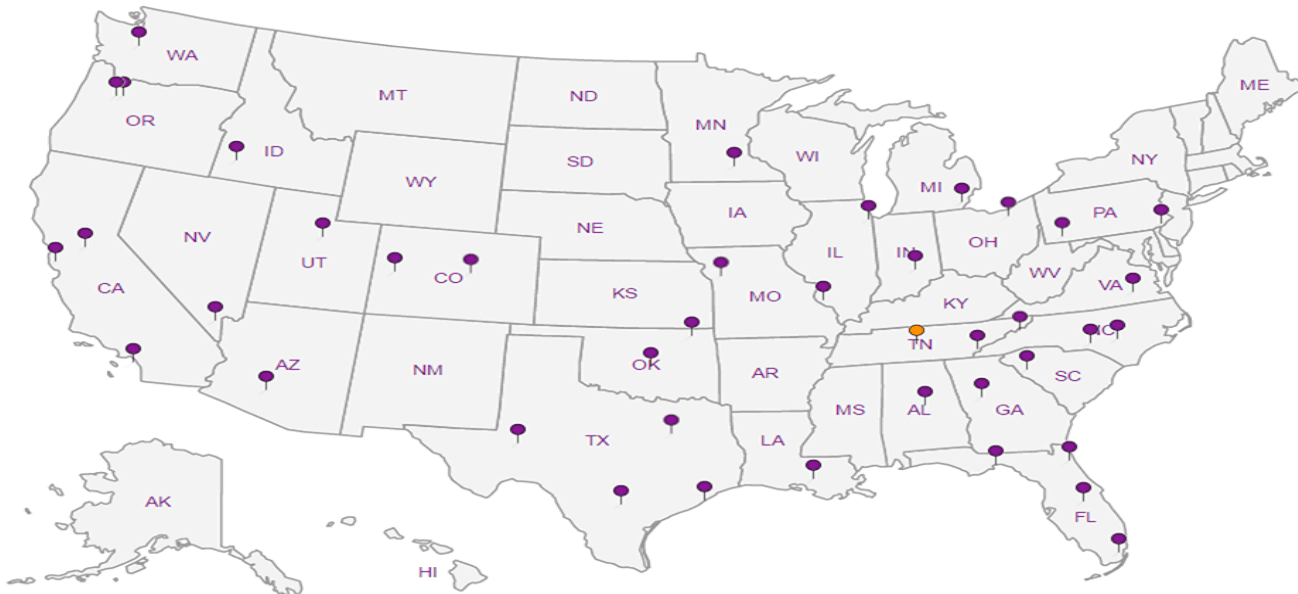
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SLR International Corporation -  
Oakland

110 - 11th Street

Report to:  
Julia Hamilton

Project Description: 397 Blossom Hill Rd

Phone: 510-451-1761  
Fax:

Collected by (print):  
Julia Hamilton  
Collected by (signature):  
*Julia Hamilton*

Immediately Packed on Ice

Billing Information:  
Attn: Accounts Payable  
110 11th St., 2nd Floor  
Oakland, CA 94607

Email To: jhamilton@slrconsulting.com

City/State Collected: San Jose, CA

Lab Project #  
SLROCA-HAMILTON

P.O. #

Quote #

Rush? (Lab MUST Be Notified)

Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Date Results Needed

STD TAT

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



L # 1044769

H074

Acctnum: SLROCA

Template: T142827

Prelogin: P680534

TSR: 110 - Brian Ford

PB:

Shipped Via:

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	OCPS SV8081CA 4ozClr-NoPres	Pesticides 8081
SB-16	Grab	SS	0.5ft	10/14/18	9:55am	1		X
SB-17	↓	SS	↓	↓	10:04am	↓		X
SB-18	↓	SS	↓	↓	10:11am	↓		X
SB-19	↓	SS	↓	↓	10:20am	↓		X
SB-20	↓	SS	↓	↓	10:26am	↓		X
		SS						
		SS						
		SS						
		SS						

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

RAD SCREEN: <0.5 mR/hr

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS  FedEx  Courier

Tracking # 4510 1662 1337

Sample Receipt Checklist:

COC Seal Present/Intact:  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Applicable  
VOA Zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)  
*Julia Hamilton*

Date: 11/14/18

Time: 11:30am

Received by: (Signature)  
*BS PACE*

Trip Blank Received: Yes  No   
HCL / MeOH  
TBR

Relinquished by: (Signature)  
*BS PACE*

Date: 11/14/18

Time: 1630

Received by: (Signature)  
*FedEx*

Temp: 14.10 °C  
Bottles Received: 5

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)  
*Mc Faust*

Date: 11/15/18  
Time: 1345

Hold:

Condition:  
NCF 10

## **APPENDIX B**

### **STATISTICAL ANALYSIS REPORT**

