

# **APPENDIX E**

## ***Soil Sampling Results***



June 6, 2018

Mr. Mike Campbell  
**David J. Power & Associates, Inc.**  
1871 The Alameda, Suite 200  
San Jose, CA 95126

**Re: Environmental Sampling Results, Presentation High School, 2281 Plummer Avenue,  
San Jose, CA,**

Dear Mr. Campbell,

On behalf of David J. Powers & Associates, Inc., McCloskey Consultants, Inc. (MCI) has prepared this letter documenting the results of the environmental sampling activities completed at the Presentation High School located at 2281 Plummer Avenue in San Jose, California (Site). Attached are the laboratory results, summary tables, a Site map showing the soil sampling locations, and field procedures. The sampling activities were performed to evaluate the Site for residual pesticides and related metals from historical agricultural cultivation of the Site as well as the potential for lead, pesticides and arsenic around the existing older structures in shallow Site soils, as reported in a Phase I Report by MCI in a March 26, 2018 (MCI, 2018).

### **Review of Phase I Environmental Site Assessment**

A Phase I Environmental Site Assessment Report was performed in 2018 by MCI. MCI reviewed the available site historical documents including aerial photographs. The Site was cultivated with cherry orchards from as early as the late-1930s through the early-1960s. The original Presentation High School buildings were constructed on the eastern half of the Site in 1962, at which time the western half remained cultivated with orchards through the mid- to late-1960s. A small convent was constructed on the northwestern corner of the Site in the late-1970s/early-1980s and was removed in 2003. Expansion of Presentation High School facilities onto the western half of the Site began in the mid-1970s, and all existing school facilities were present by 2005.

The 8.7-acre (378,972-square-foot) Site currently is currently developed with seven buildings and other facilities of Presentation High School. Structures and facilities at the Site include a main office/classroom building, student union/cafeteria, theater/classroom building, gym, chapel, additional classroom building, pool equipment building with cogeneration plant, swimming pool, assorted ball fields and associated courtyards,



walkways, landscaping, and asphalt-paved parking areas and driveways. Demolition of the existing main office/classroom building, student union/cafeteria, and chapel is planned, followed by replacement of the facilities with new structures of similar use. The existing chapel was constructed in 1993 and no potential environmental concerns were identified with the structure and no sampling was performed.

## **Soil Sampling**

### **Sample Collection, Analyses & Analytical Results**

Standard agricultural practices utilized during historical cultivation of the Site with cherry orchards may have included the application of persistent agricultural chemicals, including organochlorine and lead-arsenate pesticides. As stated in the Phase I ESA, residual pesticides and related metals, lead and arsenic could remain in shallow Site soils at concentrations exceeding regulatory standards.

Several of the structures on the Site have been present since the early-1960s. Additionally, historical structures were documented on the northeastern corner of the Site in the 1950s and 1960s and at the convent on the northeastern corner of the Site in the late-1970s through 2003. Based on the dates of construction, the paint on the aged/historical structures may have contained lead. Flaking lead-based paint (LBP) may have impacted soil along the building walls with lead. Additionally, application of pesticides and/or herbicides (containing arsenic) may have occurred around the building perimeters of the existing main office/classroom building and the student union/cafeteria date.

To evaluate these potential environmental concerns, where surface soil borders building walls, 15 samples were collected from 0 to ½ foot around the building perimeters and analyzed for OCPs (EPA Test Method 8081), and arsenic (EPA Test Method 6010B). Three of the samples collected below existing windows were also analyzed for lead (EPA Test Method 6010B) because the buildings were unpainted cement block. The approximate sampling locations are shown on Figure 1.

Sample collection methods are described in the field procedures summarized in the attachments.

Analytical results for all the soil samples are summarized in Table 1. Laboratory analytical reports and chain-of-custody documentation are included in the attachments.



Organochlorine pesticide results indicate that various pesticides were detected around some or the building perimeters. Concentrations of 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, chlordane, dieldrin, alpha-BHC, gamma-BHC, heptachlor, heptachlor epoxide, and hexachlorobenzene were detected in at least one of the samples collected. The pesticide concentration detected were compared to the United States Environmental Protection Agency Regional Screening Levels (USEPA RSL) or California DTSC's Office of Human and Ecological Risk ("HERO") Human Health Risk Assessment HERO Note 3 for sensitive uses. Chlordane is listed on the California HHRA HERO Note 3 compounds and the more conservative screening value was used for this compound. Most of the concentrations detected were several times less than their respective USEPA RSLs. None of concentrations detected exceed their respective USEPA RSLs.

Lead concentrations were detected in all three of the samples analyzed around the building perimeter and ranged from 13.2 milligrams per kilogram (mg/kg) to 28.4 mg/kg. Lead was compared to the HHRA HERO Note 3 Screening Level (CHHSL) guidance of 80 milligrams per kilogram (mg/kg) for sensitive uses. None of the concentrations exceeded this threshold and all appeared consistent with naturally-occurring background concentrations.

Arsenic was detected in every soil sample collected from around the building perimeters and ranged from 4.01 mg/kg to 27.9 mg/kg. All of the arsenic concentrations detected exceed the USEPA RSL for sensitive uses, however, naturally-occurring concentrations commonly exceed the RSLs State wide. Arsenic concentrations were compared to the published maximum naturally-occurring concentration of 11.0 mg/kg (Duverge, 2011). The arsenic concentrations of 12.0 mg/kg and 27.9 mg/kg collected at sampling locations BP-1 and BP-4, respectively, exceeded the published maximum naturally-occurring background concentrations but only at those two locations.

## **Conclusions and Recommendations**

Based on these sampling results, elevated arsenic concentrations were only detected in the soil along the eastern side of the existing main office/classroom building that exceeded naturally-occurring background concentrations. Both of the samples (BP-1 and BP-4) were collected in small planter areas closest to Plummer Avenue. The planter areas were approximately two feet wide and less than 30 feet long. Concrete covered the remaining portion of the building where the elevated arsenic concentrations were detected. No



elevated lead or pesticides concentrations were detected in any of the samples. Due to the small amount of material with somewhat elevated arsenic concentrations and that they are not in areas where students congregate, the impacted material does not appear to pose a significant threat to human health during the current and/or planned redevelopment activities and therefore no further action is recommended.

We hope this provides you with the information you need at this time. Please let me know if there are any additional questions or comments.

Sincerely,

Thomas F. McCloskey, P.G., C.E.G., C.HG.  
President and Principal Geologist

Copies: Addressee (e-copy only)

Attachments: Summary Tables 1  
Figure 1 – Site Map – Sampling Locations  
Laboratory Reports  
General Field Procedures

**Reference:**

Cal/EPA, January 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties.*

Cal/EPA, September 2009. *Revised California Human Health Screening Levels for Lead.*

California Department of Toxic Substances Control, Human and Ecologic Risk Office (HERO), January, 2018. *Human Health Risk Assessment (HHRA), Note Number: 3, DTSC-modified Screening Levels.*

Duverge', D.J., December 2011. *Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region.* Master of Science Thesis, San Francisco State University.



McCloskey Consultants Inc. March 28, 2018. *Phase I Environmental Site Assessment, Presentation High School, 2281 Plummer Avenue, San Jose, California 95125.*

United States Environmental Protection Agency Regional Screening Levels, November 2017

**Table 1. Summary Results for the Pesticide and Metal Sampling**

(Concentrations in milligrams per kilogram [mg/kg])

| Approximate Location                | Sample ID | Approximate Sampling Depth | Date Sampled | Arsenic     | Lead  | Aldrin  | alpha-BHC | beta-BHC | delta-BHC | gamma-BHC | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | Dieldrin | Endosulfan I | Endosulfan II | Endosulfan Sulfate | Endrin  | Endrin Aldehyde | Endrin Ketone | Heptachlor | Heptachlor Epoxide | Hexachlorobenzene | Methoxychlor | Chlordane | Toxaphene |         |         |
|-------------------------------------|-----------|----------------------------|--------------|-------------|-------|---------|-----------|----------|-----------|-----------|----------|----------|----------|----------|--------------|---------------|--------------------|---------|-----------------|---------------|------------|--------------------|-------------------|--------------|-----------|-----------|---------|---------|
| Main Building - Office / Classrooms | BP-1      | 0-½ bgs                    | 3/28/2018    | <b>12.0</b> | --    | <0.0277 | <0.0277   | <0.0277  | <0.0277   | <0.0277   | <0.0277  | 0.00204  | 0.00113  | <0.00277 | <0.0277      | <0.0277       | <0.0277            | <0.0277 | <0.0277         | <0.0277       | <0.0277    | <0.0277            | <0.0277           | <0.0277      | <0.277    | <0.0499   |         |         |
|                                     | BP-2      | 0-½ bgs                    | 3/28/2018    | 5.62        | 28.4  | <0.0237 | <0.0237   | <0.0237  | <0.0237   | <0.0237   | 0.00212  | 0.0147   | 0.00907  | <0.00237 | <0.0237      | <0.0237       | <0.0237            | <0.0237 | <0.0237         | <0.0237       | <0.0237    | <0.0237            | <0.0237           | 0.00177      | <0.0237   | <0.237    | <0.0426 |         |
|                                     | BP-3      | 0-½ bgs                    | 3/28/2018    | 7.66        | --    | <0.0244 | <0.0244   | <0.0244  | <0.0244   | <0.0244   | <0.0244  | 0.00912  | 0.0257   | <0.00244 | <0.0244      | <0.0244       | <0.0244            | <0.0244 | <0.0244         | <0.0244       | <0.0244    | <0.0244            | 0.00107           | 0.00247      | <0.0244   | <0.244    | <0.0439 |         |
|                                     | BP-4      | 0-½ bgs                    | 3/28/2018    | <b>27.9</b> | --    | <0.0258 | <0.0258   | <0.0258  | <0.0258   | <0.0258   | <0.0258  | 0.00477  | 0.00463  | <0.00258 | <0.0258      | <0.0258       | <0.0258            | <0.0258 | <0.0258         | <0.0258       | <0.0258    | <0.0258            | <0.0258           | <0.0258      | <0.0258   | <0.258    | <0.0464 |         |
|                                     | BP-5      | 0-½ bgs                    | 3/28/2018    | 4.56        | --    | <0.0228 | <0.0228   | <0.0228  | <0.0228   | <0.0228   | <0.0228  | 0.00675  | 0.0153   | <0.00228 | <0.0228      | <0.0228       | <0.0228            | <0.0228 | <0.0228         | <0.0228       | <0.0228    | <0.0228            | <0.0228           | <0.0228      | 0.000514  | <0.0228   | <0.228  | <0.0410 |
|                                     | BP-6      | 0-½ bgs                    | 3/28/2018    | 5.52        | --    | <0.0228 | <0.0228   | <0.0228  | <0.0228   | <0.0228   | <0.0228  | 0.00803  | 0.0066   | <0.00228 | <0.0228      | <0.0228       | <0.0228            | <0.0228 | <0.0228         | <0.0228       | <0.0228    | <0.0228            | <0.0228           | <0.0228      | <0.0228   | <0.228    | <0.0411 |         |
|                                     | BP-7      | 0-½ bgs                    | 3/28/2018    | 6.83        | --    | <0.0213 | <0.0213   | <0.0213  | <0.0213   | 0.002     | 0.00145  | 0.0113   | 0.0249   | 0.00097  | <0.0213      | <0.0213       | <0.0213            | <0.0213 | <0.0213         | <0.0213       | <0.0213    | <0.0213            | <0.0213           | <0.0213      | <0.0213   | <0.213    | <0.0384 |         |
|                                     | BP-8      | 0-½ bgs                    | 3/28/2018    | 4.01        | 27.5  | <0.0228 | <0.0228   | <0.0228  | <0.0228   | <0.0228   | 0.00158  | 0.00350  | 0.0133   | 0.000373 | <0.0228      | <0.0228       | <0.0228            | <0.0228 | <0.0228         | <0.0228       | <0.0228    | <0.0228            | <0.0228           | <0.0228      | 0.000418  | <0.0228   | <0.228  | <0.0410 |
|                                     | BP-9      | 0-½ bgs                    | 3/28/2018    | 5.38        | --    | <0.0256 | <0.0256   | <0.0256  | <0.0256   | <0.0256   | 0.000856 | 0.00539  | 0.00589  | <0.00256 | <0.0256      | <0.0256       | <0.0256            | <0.0256 | <0.0256         | <0.0256       | <0.0256    | <0.0256            | <0.0256           | <0.0256      | 0.0128    | <0.0256   | <0.256  | <0.0460 |
|                                     | BP-10     | 0-½ bgs                    | 3/28/2018    | 4.54        | --    | <0.0246 | <0.0246   | <0.0246  | <0.0246   | <0.0246   | 0.00075  | 0.00289  | 0.0061   | <0.0246  | <0.0246      | <0.0246       | <0.0246            | <0.0246 | <0.0246         | <0.0246       | <0.0246    | <0.0246            | <0.0246           | <0.0246      | 0.000774  | <0.0246   | <0.246  | <0.0443 |
|                                     | BP-11     | 0-½ bgs                    | 3/28/2018    | 4.18        | --    | <0.0231 | <0.0231   | <0.0231  | <0.0231   | <0.0231   | <0.0231  | 0.00741  | 0.0023   | <0.00231 | <0.0231      | <0.0231       | <0.0231            | <0.0231 | <0.0231         | <0.0231       | <0.0231    | <0.0231            | <0.0231           | <0.0231      | <0.0231   | <0.231    | <0.0417 |         |
|                                     | BP-12     | 0-½ bgs                    | 3/28/2018    | 8.71        | --    | <0.0228 | <0.0228   | <0.0228  | <0.0228   | <0.0228   | 0.00387  | 0.00998  | 0.0583   | 0.00218  | <0.0228      | <0.0228       | <0.0228            | <0.0228 | <0.0228         | <0.0228       | <0.0228    | <0.0228            | <0.0228           | <0.0228      | 0.00137   | <0.0228   | 0.0475  | <0.0410 |
|                                     | BP-13     | 0-½ bgs                    | 3/28/2018    | 5.56        | 13.2  | <0.0217 | <0.0217   | <0.0217  | <0.0217   | 0.000274  | 0.00373  | 0.0292   | 0.0364   | 0.000533 | <0.0217      | <0.0217       | <0.0217            | <0.0217 | <0.0217         | <0.0217       | <0.0217    | <0.0217            | <0.0217           | <0.0217      | <0.0217   | <0.217    | <0.0391 |         |
| Student Union/ Cafeteria            | BP-14     | 0-½ bgs                    | 3/28/2018    | 4.99        | --    | <0.0224 | 0.000243  | <0.0224  | <0.0224   | 0.002     | 0.00431  | 0.0184   | 0.0298   | 0.00333  | <0.0224      | <0.0224       | <0.0224            | <0.0224 | <0.0224         | <0.0224       | <0.0224    | <0.0224            | <0.0224           | <0.0224      | <0.0224   | 0.0969    | <0.0403 |         |
|                                     | BP-15     | 0-½ bgs                    | 3/28/2018    | 4.5         | --    | <0.0225 | <0.0225   | <0.0225  | <0.0225   | <0.0225   | 0.0037   | 0.00925  | 0.0271   | 0.00261  | <0.0225      | <0.0225       | <0.0225            | <0.0225 | <0.0225         | <0.0225       | <0.0225    | 0.000412           | 0.00174           | 0.000297     | <0.0225   | 0.218     | <0.0405 |         |
| CHHSL                               |           |                            |              | 0.07**      | 80    | NA      | NE        | NE       | NE        | NA        | NA       | NA       | NA       | NA       | NE           | NE            | NE                 | NA      | NE              | NE            | NA         | NE                 | NE                | NA           | NA        | NA        | NA      |         |
| USEPA RSL                           |           |                            |              | 0.67**      | 400   | 0.039   | 0.086     | 0.3      | NE        | 0.57      | 1.9      | 2.0      | 1.9      | 0.034    | 470*         | 470*          | NE                 | 19      | NE              | NE            | 0.13       | 0.07               | 0.21              | 320          | 1.7       | 0.49      |         |         |
| HERO HHRA Note 3                    |           |                            |              | 0.067**     | 80    | NE      | NE        | NE       | NE        | NE        | NE       | NE       | NE       | NE       | NE           | NE            | NE                 | NE      | NE              | NE            | NE         | NE                 | NE                | NE           | NE        | 0.44      | NE      |         |
| TTLIC                               |           |                            |              | 500         | 1,000 | 1.4     | NE        | NE       | NE        | 4.0       | 1.0      | 1.0      | 1.0      | 8.0      | NE           | NE            | NE                 | 0.2     | NE              | NE            | 4.7        | NE                 | NE                | 100.0        | 2.5       | 5.0       |         |         |

<D.L. Indicates that the compound was not detected at or above stated laboratory detection limits.

NE Not established.

CHHSL California Human Health Screening Levels, Residential Land Uses, Direct Exposure, Cal/EPA, January 2005 and updates.

USEPA RSL United States Environmental Protection Agency Regional Screening Levels for Residential Uses (November 2017)

HERO HHRA Note 3 DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3, DTSC-Modified Screening Levels, August 2017.

TTLIC Total threshold limit concentration for hazardous waste classification.

**Bold** Indicates an exceedance of the regulatory threshold or calculated naturally occurring background concentration

-- Not Analyzed

\* USEPA RSL for Endosulfan

\*\* Cal/EPA does not require cleanup of soil to less than background concentrations. Natural background concentrations of arsenic often exceed the health-based goals in soil.

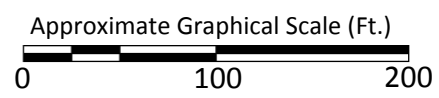
The maximum natural background concentration is 11.0 mg/Kg

NA Not Applicable



**LEGEND:**

- Approximate Site Boundaries
- Approximate Sampling Locations – Exceeds Naturally-Occurring Background Concentrations
- Approximate Sampling Locations – Does Not Exceed Naturally-Occurring Background Concentrations



**Site Plan**  
**Sampling Locations & Select Sampling Results**  
 Presentation High School  
 2281 Plummer Avenue  
 San Jose, California

**FIGURE 1**



## **Field Procedures**

This section describes the soil sampling field methods used to evaluate the potential environmental concerns described previously. Included is a description of the sampling equipment used, the methods of sampling, and quality assurance and quality control (QA/QC) practices including equipment decontamination.

### **Collection of Soil Samples**

Surface soil samples were collected by hand from the upper 6 inches of soil using new, disposable, and laboratory-supplied 4 or 9 ounce glass jars. After sample collection the Teflon-lined lid were securely fastened on the jar and the jar were labeled with a unique sample identification number. New gloves were worn by the sampling personnel and were changed between sampling locations and discarded. The non-dedicated sampling equipment was decontaminated to prevent cross contamination of soil particles. The samples were placed into ziplock bags and then in an insulated cooler chilled to 4 degrees +/- 2 degrees Celsius and hand delivered by MCI personnel to ESC Lab Science personnel to be shipped to the laboratory. ESC Lab Science is a California-certified analytical laboratory.

## McCloskey Consulting - Danville, CA

Sample Delivery Group: L982236  
Samples Received: 03/31/2018  
Project Number:  
Description: Presentation HS.

Report To: Tom McCloskey  
420 Sycamore Valley Rd West  
Danville, CA 94526

Entire Report Reviewed By:

*Brian Ford*

Brian Ford  
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



|   |           |             |
|---|-----------|-------------|
| <b>Cp: Cover Page</b>                     | <b>1</b>  | <b>1</b> Cp |
| <b>Tc: Table of Contents</b>              | <b>2</b>  |             |
| <b>Ss: Sample Summary</b>                 | <b>3</b>  | <b>2</b> Tc |
| <b>Cn: Case Narrative</b>                 | <b>6</b>  |             |
| <b>Sr: Sample Results</b>                 | <b>7</b>  | <b>3</b> Ss |
| BP-1 L982236-01                           | 7         |             |
| BP-2 L982236-02                           | 8         | <b>4</b> Cn |
| BP-3 L982236-03                           | 9         | <b>5</b> Sr |
| BP-4 L982236-04                           | 10        |             |
| BP-5 L982236-05                           | 11        | <b>6</b> Qc |
| BP-6 L982236-06                           | 12        |             |
| BP-7 L982236-07                           | 13        | <b>7</b> Gl |
| BP-8 L982236-08                           | 14        | <b>8</b> Al |
| BP-9 L982236-09                           | 15        |             |
| BP-10 L982236-10                          | 16        | <b>9</b> Sc |
| BP-11 L982236-11                          | 17        |             |
| BP-12 L982236-12                          | 18        |             |
| BP-13 L982236-13                          | 19        |             |
| BP-14 L982236-14                          | 20        |             |
| BP-15 L982236-15                          | 21        |             |
| <b>Qc: Quality Control Summary</b>        | <b>22</b> |             |
| Total Solids by Method 2540 G-2011        | 22        |             |
| Metals (ICP) by Method 6010B              | 24        |             |
| Pesticides (GC) by Method 8081            | 25        |             |
| <b>Gl: Glossary of Terms</b>              | <b>27</b> |             |
| <b>Al: Accreditations &amp; Locations</b> | <b>28</b> |             |
| <b>Sc: Sample Chain of Custody</b>        | <b>29</b> |             |

# SAMPLE SUMMARY



## BP-1 L982236-01 Solid

Collected by  
Chris Vertin  
Collected date/time  
03/28/18 10:43  
Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094318 | 1        | 04/06/18 13:59        | 04/06/18 14:14     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 01:28     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 00:07     | ADF     |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## BP-2 L982236-02 Solid

Collected by  
Chris Vertin  
Collected date/time  
03/28/18 10:46  
Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094318 | 1        | 04/06/18 13:59        | 04/06/18 14:14     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 01:41     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 00:19     | ADF     |

## BP-3 L982236-03 Solid

Collected by  
Chris Vertin  
Collected date/time  
03/28/18 10:50  
Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094318 | 1        | 04/06/18 13:59        | 04/06/18 14:14     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 01:43     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 00:57     | ADF     |

## BP-4 L982236-04 Solid

Collected by  
Chris Vertin  
Collected date/time  
03/28/18 10:53  
Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094318 | 1        | 04/06/18 13:59        | 04/06/18 14:14     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 01:51     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 01:10     | ADF     |

## BP-5 L982236-05 Solid

Collected by  
Chris Vertin  
Collected date/time  
03/28/18 11:00  
Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094318 | 1        | 04/06/18 13:59        | 04/06/18 14:14     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 01:53     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 01:22     | ADF     |

## BP-6 L982236-06 Solid

Collected by  
Chris Vertin  
Collected date/time  
03/28/18 11:03  
Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094318 | 1        | 04/06/18 13:59        | 04/06/18 14:14     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 01:56     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 01:35     | ADF     |

# SAMPLE SUMMARY



## BP-7 L982236-07 Solid

Collected by  
Chris Vertin  
Collected date/time  
03/28/18 11:20  
Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094318 | 1        | 04/06/18 13:59        | 04/06/18 14:14     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 01:58     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 01:47     | ADF     |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## BP-8 L982236-08 Solid

Collected by  
Chris Vertin  
Collected date/time  
03/28/18 11:23  
Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094318 | 1        | 04/06/18 13:59        | 04/06/18 14:14     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 02:00     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 02:00     | ADF     |

## BP-9 L982236-09 Solid

Collected by  
Chris Vertin  
Collected date/time  
03/28/18 11:26  
Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094322 | 1        | 04/06/18 13:17        | 04/06/18 13:30     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 02:03     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 02:12     | ADF     |

## BP-10 L982236-10 Solid

Collected by  
Chris Vertin  
Collected date/time  
03/28/18 11:30  
Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094322 | 1        | 04/06/18 13:17        | 04/06/18 13:30     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 02:05     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 02:25     | ADF     |

## BP-11 L982236-11 Solid

Collected by  
Chris Vertin  
Collected date/time  
03/28/18 11:33  
Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094318 | 1        | 04/06/18 13:59        | 04/06/18 14:14     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 02:08     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 02:38     | ADF     |

## BP-12 L982236-12 Solid

Collected by  
Chris Vertin  
Collected date/time  
03/28/18 12:04  
Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094322 | 1        | 04/06/18 13:17        | 04/06/18 13:30     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 02:10     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 02:50     | ADF     |

# SAMPLE SUMMARY



## BP-13 L982236-13 Solid

Collected by  
Chris Vertin      Collected date/time  
03/28/18 12:07      Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094322 | 1        | 04/06/18 13:17        | 04/06/18 13:30     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 02:13     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 03:03     | ADF     |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## BP-14 L982236-14 Solid

Collected by  
Chris Vertin      Collected date/time  
03/28/18 11:50      Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094322 | 1        | 04/06/18 13:17        | 04/06/18 13:30     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 02:20     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 03:15     | ADF     |

## BP-15 L982236-15 Solid

Collected by  
Chris Vertin      Collected date/time  
03/28/18 11:55      Received date/time  
03/31/18 08:45

| Method                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------------|-----------|----------|-----------------------|--------------------|---------|
| Total Solids by Method 2540 G-2011 | WG1094322 | 1        | 04/06/18 13:17        | 04/06/18 13:30     | JD      |
| Metals (ICP) by Method 6010B       | WG1092834 | 1        | 04/03/18 11:04        | 04/04/18 02:23     | TRB     |
| Pesticides (GC) by Method 8081     | WG1093064 | 1        | 04/03/18 16:57        | 04/04/18 03:28     | ADF     |



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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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  
Technical Service Representative

- <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



Collected date/time: 03/28/18 10:43

L982236

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 72.2   |           | 1        | 04/06/2018 14:14 | <a href="#">WG1094318</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 | 12.0         |           | 0.900     | 2.77      | 1        | 04/04/2018 01:28 | <a href="#">WG1092834</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            |           | 0.000323  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |           | 0.000267  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |           | 0.000420  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |           | 0.000209  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Gamma BHC                | U            |           | 0.000339  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | U            |           | 0.000227  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.00204      | J         | 0.000229  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.00113      | J         | 0.000368  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Dieldrin                 | U            |           | 0.000123  | 0.00277   | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |           | 0.000296  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | J4        | 0.000319  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |           | 0.000235  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Endrin                   | U            |           | 0.000303  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |           | 0.000335  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |           | 0.000220  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |           | 0.000140  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | U            |           | 0.000523  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | U            |           | 0.000310  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |           | 0.000367  | 0.0277    | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Chlordane                | U            |           | 0.0540    | 0.277     | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |           | 0.0499    | 0.554     | 1        | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 21.3         |           |           | 10.0-148  |          | 04/04/2018 00:07 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 44.3         |           |           | 21.0-146  |          | 04/04/2018 00:07 | <a href="#">WG1093064</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 | 84.6   |           | 1        | 04/06/2018 14:14 | <a href="#">WG1094318</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 | 5.62         |           | 0.769     | 2.37      | 1        | 04/04/2018 01:41 | <a href="#">WG1092834</a> |
| Lead    | 28.4         |           | 0.225     | 0.591     | 1        | 04/04/2018 01:41 | <a href="#">WG1092834</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            |            | 0.000276  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |            | 0.000228  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |            | 0.000358  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Delta BHC                | U            | <u>J3</u>  | 0.000179  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Gamma BHC                | U            |            | 0.000290  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | 0.00212      | <u>J</u>   | 0.000194  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.0147       | <u>J</u>   | 0.000195  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.00907      | <u>J</u>   | 0.000315  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Dieldrin                 | U            |            | 0.000105  | 0.00237   | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |            | 0.000253  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | <u>J4</u>  | 0.000272  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            | <u>J3</u>  | 0.000201  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Endrin                   | U            |            | 0.000259  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |            | 0.000286  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |            | 0.000188  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |            | 0.000119  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | U            |            | 0.000447  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | 0.00177      | <u>J P</u> | 0.000265  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            | <u>J3</u>  | 0.000313  | 0.0237    | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Chlordane                | U            |            | 0.0461    | 0.237     | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |            | 0.0426    | 0.473     | 1        | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 47.0         |            |           | 10.0-148  |          | 04/04/2018 00:19 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 65.1         |            |           | 21.0-146  |          | 04/04/2018 00:19 | <a href="#">WG1093064</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 03/28/18 10:50

L982236

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 82.0   |           | 1        | 04/06/2018 14:14 | <a href="#">WG1094318</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 | 7.66         |           | 0.793     | 2.44      | 1        | 04/04/2018 01:43 | <a href="#">WG1092834</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            |           | 0.000284  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |           | 0.000235  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |           | 0.000369  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |           | 0.000184  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Gamma BHC                | U            |           | 0.000299  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | U            |           | 0.000200  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.00912      | J         | 0.000201  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.0257       |           | 0.000324  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Dieldrin                 | U            |           | 0.000109  | 0.00244   | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |           | 0.000261  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | J4        | 0.000280  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |           | 0.000207  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Endrin                   | U            |           | 0.000267  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |           | 0.000295  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |           | 0.000194  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |           | 0.000123  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | 0.00107      | J         | 0.000461  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | 0.00247      | J         | 0.000273  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |           | 0.000323  | 0.0244    | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Chlordane                | U            |           | 0.0476    | 0.244     | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |           | 0.0439    | 0.488     | 1        | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 50.7         |           |           | 10.0-148  |          | 04/04/2018 00:57 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 73.5         |           |           | 21.0-146  |          | 04/04/2018 00:57 | <a href="#">WG1093064</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 03/28/18 10:53

L982236

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 77.7   |           | 1        | 04/06/2018 14:14 | <a href="#">WG1094318</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 | 27.9         |           | 0.837     | 2.58      | 1        | 04/04/2018 01:51 | <a href="#">WG1092834</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            |            | 0.000300  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |            | 0.000249  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |            | 0.000390  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |            | 0.000194  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Gamma BHC                | U            |            | 0.000315  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | U            |            | 0.000211  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.00477      | <u>J P</u> | 0.000212  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.00463      | <u>J</u>   | 0.000342  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Dieldrin                 | U            |            | 0.000115  | 0.00258   | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |            | 0.000276  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | <u>J4</u>  | 0.000296  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |            | 0.000219  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Endrin                   | U            |            | 0.000282  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |            | 0.000312  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |            | 0.000205  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |            | 0.000130  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | U            |            | 0.000487  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | U            |            | 0.000288  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |            | 0.000341  | 0.0258    | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Chlordane                | U            |            | 0.0502    | 0.258     | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |            | 0.0464    | 0.515     | 1        | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 48.9         |            |           | 10.0-148  |          | 04/04/2018 01:10 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 72.0         |            |           | 21.0-146  |          | 04/04/2018 01:10 | <a href="#">WG1093064</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 | 87.7   |           | 1        | 04/06/2018 14:14 | <a href="#">WG1094318</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 | 4.56         |           | 0.741     | 2.28      | 1        | 04/04/2018 01:53 | <a href="#">WG1092834</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            |           | 0.000266  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |           | 0.000220  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |           | 0.000345  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |           | 0.000172  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Gamma BHC                | U            |           | 0.000279  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | U            |           | 0.000187  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.00675      | J         | 0.000188  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.0153       | J         | 0.000303  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Dieldrin                 | U            |           | 0.000101  | 0.00228   | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |           | 0.000244  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | J4        | 0.000262  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |           | 0.000194  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Endrin                   | U            |           | 0.000250  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |           | 0.000276  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |           | 0.000181  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |           | 0.000115  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | U            |           | 0.000431  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | 0.000514     | J P       | 0.000255  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |           | 0.000302  | 0.0228    | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Chlordane                | U            |           | 0.0445    | 0.228     | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |           | 0.0410    | 0.456     | 1        | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 49.9         |           |           | 10.0-148  |          | 04/04/2018 01:22 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 72.7         |           |           | 21.0-146  |          | 04/04/2018 01:22 | <a href="#">WG1093064</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 | 87.6   |           | 1        | 04/06/2018 14:14 | <a href="#">WG1094318</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 | 5.52         |           | 0.742     | 2.28      | 1        | 04/04/2018 01:56 | <a href="#">WG1092834</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            |           | 0.000266  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |           | 0.000220  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |           | 0.000346  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |           | 0.000172  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Gamma BHC                | U            |           | 0.000280  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | U            |           | 0.000187  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.00803      | J P       | 0.000188  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.00655      | J         | 0.000304  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Dieldrin                 | U            |           | 0.000102  | 0.00228   | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |           | 0.000244  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | J4        | 0.000262  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |           | 0.000194  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Endrin                   | U            |           | 0.000250  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |           | 0.000276  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |           | 0.000181  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |           | 0.000115  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | U            |           | 0.000431  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | U            |           | 0.000256  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |           | 0.000302  | 0.0228    | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Chlordane                | U            |           | 0.0445    | 0.228     | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |           | 0.0411    | 0.456     | 1        | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 47.2         |           |           | 10.0-148  |          | 04/04/2018 01:35 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 71.4         |           |           | 21.0-146  |          | 04/04/2018 01:35 | <a href="#">WG1093064</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 | 93.9   |           | 1        | 04/06/2018 14:14 | <a href="#">WG1094318</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 | 6.83         |           | 0.692     | 2.13      | 1        | 04/04/2018 01:58 | <a href="#">WG1092834</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            |           | 0.000248  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |           | 0.000206  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |           | 0.000323  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |           | 0.000161  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Gamma BHC                | 0.00200      | J         | 0.000261  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | 0.00145      | J         | 0.000175  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.0113       | J         | 0.000176  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.0249       |           | 0.000283  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Dieldrin                 | 0.000970     | J         | 0.0000948 | 0.00213   | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |           | 0.000228  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | J4        | 0.000245  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |           | 0.000181  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Endrin                   | U            |           | 0.000233  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |           | 0.000258  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |           | 0.000169  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |           | 0.000108  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | U            |           | 0.000403  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | 0.000380     | J P       | 0.000239  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |           | 0.000282  | 0.0213    | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Chlordane                | U            |           | 0.0415    | 0.213     | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |           | 0.0384    | 0.426     | 1        | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 41.2         |           |           | 10.0-148  |          | 04/04/2018 01:47 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 60.0         |           |           | 21.0-146  |          | 04/04/2018 01:47 | <a href="#">WG1093064</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 | 87.8   |           | 1        | 04/06/2018 14:14 | <a href="#">WG1094318</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 | 4.01         |           | 0.740     | 2.28      | 1        | 04/04/2018 02:00 | <a href="#">WG1092834</a> |
| Lead    | 27.5         |           | 0.216     | 0.569     | 1        | 04/04/2018 02:00 | <a href="#">WG1092834</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        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |           | 0.000220  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |           | 0.000345  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |           | 0.000172  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Gamma BHC                | U            |           | 0.000279  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | 0.00158      | J         | 0.000187  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.00350      | J         | 0.000188  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.0133       | J         | 0.000303  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Dieldrin                 | 0.000373     | J         | 0.000101  | 0.00228   | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |           | 0.000244  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | J4        | 0.000262  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |           | 0.000194  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Endrin                   | U            |           | 0.000249  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |           | 0.000276  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |           | 0.000181  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |           | 0.000115  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | U            |           | 0.000430  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | 0.000418     | J         | 0.000255  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |           | 0.000302  | 0.0228    | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Chlordane                | U            |           | 0.0444    | 0.228     | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |           | 0.0410    | 0.455     | 1        | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 25.9         |           |           | 10.0-148  |          | 04/04/2018 02:00 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 44.9         |           |           | 21.0-146  |          | 04/04/2018 02:00 | <a href="#">WG1093064</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 03/28/18 11:26

L982236

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 78.3   |           | 1        | 04/06/2018 13:30 | <a href="#">WG1094322</a> |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Arsenic | 5.38         |           | 0.830     | 2.56      | 1        | 04/04/2018 02:03 | <a href="#">WG1092834</a> |

## Pesticides (GC) by Method 8081

| Analyte                  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|--------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Aldrin                   | U            |           | 0.000298  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |           | 0.000247  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |           | 0.000387  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |           | 0.000193  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Gamma BHC                | U            |           | 0.000313  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | 0.000856     | J         | 0.000210  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.00539      | J         | 0.000211  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.00589      | J         | 0.000340  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Dieldrin                 | U            |           | 0.000114  | 0.00256   | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |           | 0.000273  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | J4        | 0.000294  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |           | 0.000217  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Endrin                   | U            |           | 0.000280  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |           | 0.000309  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |           | 0.000203  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |           | 0.000129  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | U            |           | 0.000483  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | 0.0128       | J         | 0.000286  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |           | 0.000339  | 0.0256    | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Chlordane                | U            |           | 0.0498    | 0.256     | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |           | 0.0460    | 0.511     | 1        | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 28.9         |           |           | 10.0-148  |          | 04/04/2018 02:12 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 57.7         |           |           | 21.0-146  |          | 04/04/2018 02:12 | <a href="#">WG1093064</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 | 81.3   |           | 1        | 04/06/2018 13:30 | <a href="#">WG1094322</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 | 4.54         |           | 0.799     | 2.46      | 1        | 04/04/2018 02:05 | <a href="#">WG1092834</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            |           | 0.000286  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |           | 0.000237  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |           | 0.000372  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |           | 0.000186  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Gamma BHC                | U            |           | 0.000301  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | 0.000750     | J         | 0.000202  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.00289      | J         | 0.000203  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.00610      | J         | 0.000327  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Dieldrin                 | U            |           | 0.000109  | 0.00246   | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |           | 0.000263  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | J4        | 0.000283  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |           | 0.000209  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Endrin                   | U            |           | 0.000269  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |           | 0.000298  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |           | 0.000195  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |           | 0.000124  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | U            |           | 0.000465  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | 0.000774     | J         | 0.000275  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |           | 0.000326  | 0.0246    | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Chlordane                | U            |           | 0.0479    | 0.246     | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |           | 0.0443    | 0.492     | 1        | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 36.8         |           |           | 10.0-148  |          | 04/04/2018 02:25 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 56.0         |           |           | 21.0-146  |          | 04/04/2018 02:25 | <a href="#">WG1093064</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 03/28/18 11:33

L982236

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 86.4   |           | 1        | 04/06/2018 14:14 | <a href="#">WG1094318</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 | 4.18         |           | 0.752     | 2.31      | 1        | 04/04/2018 02:08 | <a href="#">WG1092834</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            |            | 0.000270  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |            | 0.000223  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |            | 0.000351  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |            | 0.000175  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Gamma BHC                | U            |            | 0.000284  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | U            |            | 0.000190  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.00741      | <u>J P</u> | 0.000191  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.00226      | <u>J</u>   | 0.000308  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Dieldrin                 | U            |            | 0.000103  | 0.00231   | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |            | 0.000248  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | <u>J4</u>  | 0.000266  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |            | 0.000197  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Endrin                   | U            |            | 0.000253  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |            | 0.000280  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |            | 0.000184  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |            | 0.000117  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | U            |            | 0.000437  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | U            |            | 0.000259  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |            | 0.000307  | 0.0231    | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Chlordane                | U            |            | 0.0451    | 0.231     | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |            | 0.0417    | 0.463     | 1        | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 43.4         |            |           | 10.0-148  |          | 04/04/2018 02:38 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 66.5         |            |           | 21.0-146  |          | 04/04/2018 02:38 | <a href="#">WG1093064</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 03/28/18 12:04

L982236

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 87.7   |           | 1        | 04/06/2018 13:30 | <a href="#">WG1094322</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 | 8.71         |           | 0.741     | 2.28      | 1        | 04/04/2018 02:10 | <a href="#">WG1092834</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            |           | 0.000266  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |           | 0.000220  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |           | 0.000345  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |           | 0.000172  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Gamma BHC                | U            |           | 0.000279  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | 0.00387      | J         | 0.000187  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.00998      | J         | 0.000188  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.0583       |           | 0.000303  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Dieldrin                 | 0.00218      | J         | 0.000101  | 0.00228   | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |           | 0.000244  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | J4        | 0.000262  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |           | 0.000194  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Endrin                   | U            |           | 0.000250  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |           | 0.000276  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |           | 0.000181  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |           | 0.000115  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | 0.00137      | J         | 0.000431  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | U            |           | 0.000255  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |           | 0.000302  | 0.0228    | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Chlordane                | 0.0475       | J         | 0.0444    | 0.228     | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |           | 0.0410    | 0.456     | 1        | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 46.1         |           |           | 10.0-148  |          | 04/04/2018 02:50 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 68.7         |           |           | 21.0-146  |          | 04/04/2018 02:50 | <a href="#">WG1093064</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 03/28/18 12:07

L982236

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 92.0   |           | 1        | 04/06/2018 13:30 | <a href="#">WG1094322</a> |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Arsenic | 5.56         |           | 0.706     | 2.17      | 1        | 04/04/2018 02:13 | <a href="#">WG1092834</a> |
| Lead    | 13.2         |           | 0.206     | 0.543     | 1        | 04/04/2018 02:13 | <a href="#">WG1092834</a> |

## Pesticides (GC) by Method 8081

| Analyte                  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|--------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Aldrin                   | U            |           | 0.000253  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |           | 0.000210  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |           | 0.000329  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |           | 0.000164  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Gamma BHC                | 0.000274     | J         | 0.000266  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | 0.00373      | J         | 0.000178  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.0292       | P         | 0.000179  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.0364       |           | 0.000289  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Dieldrin                 | 0.000533     | J P       | 0.0000967 | 0.00217   | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |           | 0.000233  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | J4        | 0.000250  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |           | 0.000185  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Endrin                   | U            |           | 0.000238  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |           | 0.000263  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |           | 0.000173  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |           | 0.000110  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | U            |           | 0.000411  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | U            |           | 0.000243  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |           | 0.000288  | 0.0217    | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Chlordane                | U            |           | 0.0424    | 0.217     | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |           | 0.0391    | 0.435     | 1        | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 46.2         |           |           | 10.0-148  |          | 04/04/2018 03:03 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 71.9         |           |           | 21.0-146  |          | 04/04/2018 03:03 | <a href="#">WG1093064</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 03/28/18 11:50

L982236

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 89.3   |           | 1        | 04/06/2018 13:30 | <a href="#">WG1094322</a> |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Arsenic | 4.99         |           | 0.728     | 2.24      | 1        | 04/04/2018 02:20 | <a href="#">WG1092834</a> |

## Pesticides (GC) by Method 8081

| Analyte                  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|--------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Aldrin                   | U            |           | 0.000261  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Alpha BHC                | 0.000243     | J         | 0.000216  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |           | 0.000339  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |           | 0.000169  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Gamma BHC                | 0.00200      | J         | 0.000274  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | 0.00431      | J P       | 0.000184  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.0184       | J         | 0.000185  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.0298       |           | 0.000298  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Dieldrin                 | 0.00333      | P         | 0.0000997 | 0.00224   | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |           | 0.000240  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | J4        | 0.000258  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |           | 0.000190  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Endrin                   | U            |           | 0.000245  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |           | 0.000271  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |           | 0.000178  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Heptachlor               | U            |           | 0.000113  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | U            |           | 0.000423  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | U            |           | 0.000251  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |           | 0.000297  | 0.0224    | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Chlordane                | 0.0969       | J         | 0.0437    | 0.224     | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |           | 0.0403    | 0.448     | 1        | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 52.2         |           |           | 10.0-148  |          | 04/04/2018 03:15 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 81.4         |           |           | 21.0-146  |          | 04/04/2018 03:15 | <a href="#">WG1093064</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 03/28/18 11:55

L982236

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 88.8   |           | 1        | 04/06/2018 13:30 | <a href="#">WG1094322</a> |

## Metals (ICP) by Method 6010B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Arsenic | 4.50         |           | 0.732     | 2.25      | 1        | 04/04/2018 02:23 | <a href="#">WG1092834</a> |

## Pesticides (GC) by Method 8081

| Analyte                  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|--------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Aldrin                   | U            |           | 0.000262  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Alpha BHC                | U            |           | 0.000217  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Beta BHC                 | U            |           | 0.000341  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Delta BHC                | U            |           | 0.000170  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Gamma BHC                | U            |           | 0.000276  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| 4,4-DDD                  | 0.00370      | J         | 0.000185  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| 4,4-DDE                  | 0.00925      | J         | 0.000186  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| 4,4-DDT                  | 0.0271       |           | 0.000299  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Dieldrin                 | 0.00261      |           | 0.000100  | 0.00225   | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Endosulfan I             | U            |           | 0.000241  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Endosulfan II            | U            | J4        | 0.000259  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Endosulfan sulfate       | U            |           | 0.000191  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Endrin                   | U            |           | 0.000246  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Endrin aldehyde          | U            |           | 0.000272  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Endrin ketone            | U            |           | 0.000179  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Heptachlor               | 0.000412     | J         | 0.000114  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Heptachlor epoxide       | 0.00174      | J P       | 0.000425  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Hexachlorobenzene        | 0.000297     | J P       | 0.000252  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Methoxychlor             | U            |           | 0.000298  | 0.0225    | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Chlordane                | 0.218        | J         | 0.0439    | 0.225     | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| Toxaphene                | U            |           | 0.0405    | 0.450     | 1        | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| (S) Decachlorobiphenyl   | 37.1         |           |           | 10.0-148  |          | 04/04/2018 03:28 | <a href="#">WG1093064</a> |
| (S) Tetrachloro-m-xylene | 56.6         |           |           | 21.0-146  |          | 04/04/2018 03:28 | <a href="#">WG1093064</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3299868-1 04/06/18 14:14

| 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

L982236-01 Original Sample (OS) • Duplicate (DUP)

(OS) L982236-01 04/06/18 14:14 • (DUP) R3299868-3 04/06/18 14:14

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|----------------------|----------------|
|              | %               | %          |          | %       |                      | %              |
| Total Solids | 72.2            | 75.8       | 1        | 4.82    |                      | 5              |

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3299868-2 04/06/18 14:14

| 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) R3299865-1 04/06/18 13:30

| Analyte      | MB Result<br>% | MB Qualifier | MB MDL<br>% | MB RDL<br>% |
|--------------|----------------|--------------|-------------|-------------|
| 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

L982236-09 Original Sample (OS) • Duplicate (DUP)

(OS) L982236-09 04/06/18 13:30 • (DUP) R3299865-3 04/06/18 13:30

| Analyte      | Original Result<br>% | DUP Result<br>% | Dilution | DUP RPD<br>% | DUP Qualifier | DUP RPD<br>Limits |
|--------------|----------------------|-----------------|----------|--------------|---------------|-------------------|
| Total Solids | 78.3                 | 79.5            | 1        | 1.56         |               | 5                 |

<sup>7</sup> Gl

<sup>8</sup> Al

Laboratory Control Sample (LCS)

(LCS) R3299865-2 04/06/18 13:30

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

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3298847-1 04/04/18 01:21

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
|         | mg/kg     |              | mg/kg  | mg/kg  |
| Arsenic | U         |              | 0.650  | 2.00   |
| Lead    | U         |              | 0.190  | 0.500  |

<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) R3298847-2 04/04/18 01:23 • (LCSD) R3298847-3 04/04/18 01:26

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|---------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|         | mg/kg        | mg/kg      | mg/kg       | %        | %         | %           |               |                | %     | %          |
| Arsenic | 100          | 94.3       | 94.1        | 94.3     | 94.1      | 80.0-120    |               |                | 0.193 | 20         |
| Lead    | 100          | 96.7       | 97.3        | 96.7     | 97.3      | 80.0-120    |               |                | 0.615 | 20         |

L982236-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L982236-01 04/04/18 01:28 • (MS) R3298847-6 04/04/18 01:36 • (MSD) R3298847-7 04/04/18 01:38

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|---------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
|         | mg/kg              | mg/kg                 | mg/kg           | mg/kg            | %       | %        |          | %           |              |               | %     | %          |
| Arsenic | 138                | 12.0                  | 135             | 138              | 89.0    | 91.3     | 1        | 75.0-125    |              |               | 2.38  | 20         |
| Lead    | 138                | 24.1                  | 155             | 154              | 94.7    | 94.0     | 1        | 75.0-125    |              |               | 0.612 | 20         |



Method Blank (MB)

(MB) R3299231-3 04/03/18 23:42

| Analyte                  | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>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   | 61.5               |              |                 | 10.0-148        |
| (S) Tetrachloro-m-xylene | 76.0               |              |                 | 21.0-146        |

- 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) R3299231-1 04/03/18 23:17 • (LCSD) R3299231-2 04/03/18 23:29

| Analyte      | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Aldrin       | 0.0667                | 0.0372              | 0.0447               | 55.8          | 67.0           | 55.0-137         |               |                | 18.2     | 29              |
| Alpha BHC    | 0.0667                | 0.0386              | 0.0471               | 57.8          | 70.6           | 55.0-136         |               |                | 19.9     | 28              |
| Beta BHC     | 0.0667                | 0.0364              | 0.0437               | 54.5          | 65.5           | 53.0-133         |               |                | 18.4     | 28              |
| Delta BHC    | 0.0667                | 0.0369              | 0.0452               | 55.4          | 67.7           | 53.0-139         |               |                | 20.1     | 29              |
| Gamma BHC    | 0.0667                | 0.0378              | 0.0459               | 56.6          | 68.8           | 54.0-136         |               |                | 19.4     | 29              |
| 4,4-DDD      | 0.0667                | 0.0386              | 0.0459               | 57.8          | 68.8           | 51.0-141         |               |                | 17.3     | 29              |
| 4,4-DDE      | 0.0667                | 0.0364              | 0.0438               | 54.6          | 65.7           | 53.0-142         |               |                | 18.4     | 30              |
| 4,4-DDT      | 0.0667                | 0.0363              | 0.0449               | 54.4          | 67.3           | 47.0-143         |               |                | 21.2     | 30              |
| Dieldrin     | 0.0667                | 0.0381              | 0.0454               | 57.1          | 68.1           | 54.0-141         |               |                | 17.6     | 29              |
| Endosulfan I | 0.0667                | 0.0371              | 0.0440               | 55.5          | 66.0           | 54.0-141         |               |                | 17.2     | 29              |



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

(LCS) R3299231-1 04/03/18 23:17 • (LCSD) R3299231-2 04/03/18 23:29

| Analyte                  | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Endosulfan II            | 0.0667                | 0.0350              | 0.0421               | 52.5          | 63.1           | 53.0-140         | J4            |                | 18.2     | 28              |
| Endosulfan sulfate       | 0.0667                | 0.0360              | 0.0428               | 53.9          | 64.1           | 52.0-141         |               |                | 17.3     | 29              |
| Endrin                   | 0.0667                | 0.0377              | 0.0448               | 56.5          | 67.1           | 52.0-137         |               |                | 17.2     | 29              |
| Endrin aldehyde          | 0.0667                | 0.0310              | 0.0362               | 46.5          | 54.3           | 30.0-127         |               |                | 15.4     | 31              |
| Endrin ketone            | 0.0667                | 0.0373              | 0.0440               | 56.0          | 65.9           | 51.0-139         |               |                | 16.3     | 28              |
| Heptachlor               | 0.0667                | 0.0394              | 0.0481               | 59.1          | 72.0           | 53.0-144         |               |                | 19.7     | 29              |
| Heptachlor epoxide       | 0.0667                | 0.0376              | 0.0453               | 56.4          | 67.9           | 54.0-137         |               |                | 18.4     | 28              |
| Hexachlorobenzene        | 0.0667                | 0.0360              | 0.0431               | 54.0          | 64.7           | 50.0-135         |               |                | 18.1     | 28              |
| Methoxychlor             | 0.0667                | 0.0391              | 0.0460               | 58.6          | 69.0           | 49.0-145         |               |                | 16.4     | 29              |
| (S) Decachlorobiphenyl   |                       |                     |                      | 46.2          | 50.9           | 10.0-148         |               |                |          |                 |
| (S) Tetrachloro-m-xylene |                       |                     |                      | 55.4          | 62.0           | 21.0-146         |               |                |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L982236-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L982236-02 04/04/18 00:19 • (MS) R3299231-4 04/04/18 00:32 • (MSD) R3299231-5 04/04/18 00:44

| Analyte                  | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Aldrin                   | 0.0789                         | U                                 | 0.0424                   | 0.0499                       | 53.7         | 63.3          | 1        | 19.0-152         |              |               | 16.3     | 24              |
| Alpha BHC                | 0.0789                         | U                                 | 0.0477                   | 0.0547                       | 60.5         | 69.4          | 1        | 39.0-152         |              |               | 13.7     | 21              |
| Beta BHC                 | 0.0789                         | U                                 | 0.0425                   | 0.0516                       | 53.8         | 65.4          | 1        | 38.0-150         |              |               | 19.4     | 20              |
| Delta BHC                | 0.0789                         | U                                 | 0.0375                   | 0.0467                       | 47.5         | 59.1          | 1        | 34.0-155         |              | J3            | 21.8     | 21              |
| Gamma BHC                | 0.0789                         | U                                 | 0.0453                   | 0.0526                       | 57.4         | 66.7          | 1        | 38.0-153         |              |               | 15.1     | 21              |
| 4,4-DDD                  | 0.0789                         | 0.00212                           | 0.0465                   | 0.0531                       | 56.2         | 64.6          | 1        | 22.0-160         |              |               | 13.3     | 25              |
| 4,4-DDE                  | 0.0789                         | 0.0147                            | 0.0564                   | 0.0634                       | 52.8         | 61.7          | 1        | 10.0-160         |              |               | 11.7     | 27              |
| 4,4-DDT                  | 0.0789                         | 0.00907                           | 0.0476                   | 0.0586                       | 48.8         | 62.7          | 1        | 10.0-160         |              |               | 20.8     | 28              |
| Dieldrin                 | 0.0789                         | U                                 | 0.0421                   | 0.0492                       | 53.4         | 62.4          | 1        | 30.0-158         |              |               | 15.6     | 25              |
| Endosulfan I             | 0.0789                         | U                                 | 0.0395                   | 0.0476                       | 50.0         | 60.3          | 1        | 31.0-155         |              |               | 18.7     | 25              |
| Endosulfan II            | 0.0789                         | U                                 | 0.0362                   | 0.0453                       | 45.9         | 57.4          | 1        | 32.0-156         |              |               | 22.3     | 25              |
| Endosulfan sulfate       | 0.0789                         | U                                 | 0.0316                   | 0.0426                       | 40.1         | 54.1          | 1        | 31.0-158         |              | J3            | 29.7     | 24              |
| Endrin                   | 0.0789                         | U                                 | 0.0414                   | 0.0487                       | 52.4         | 61.7          | 1        | 30.0-149         |              |               | 16.3     | 25              |
| Endrin aldehyde          | 0.0789                         | U                                 | 0.0298                   | 0.0385                       | 37.8         | 48.8          | 1        | 20.0-157         |              |               | 25.4     | 26              |
| Endrin ketone            | 0.0789                         | U                                 | 0.0359                   | 0.0451                       | 45.5         | 57.2          | 1        | 32.0-154         |              |               | 22.8     | 23              |
| Heptachlor               | 0.0789                         | U                                 | 0.0447                   | 0.0537                       | 56.6         | 68.1          | 1        | 18.0-160         |              |               | 18.4     | 23              |
| Heptachlor epoxide       | 0.0789                         | U                                 | 0.0431                   | 0.0499                       | 54.6         | 63.2          | 1        | 31.0-154         |              |               | 14.6     | 25              |
| Hexachlorobenzene        | 0.0789                         | 0.00177                           | 0.0468                   | 0.0540                       | 57.0         | 66.1          | 1        | 26.0-146         |              |               | 14.3     | 21              |
| Methoxychlor             | 0.0789                         | U                                 | 0.0352                   | 0.0467                       | 44.6         | 59.3          | 1        | 10.0-160         |              | J3            | 28.3     | 27              |
| (S) Decachlorobiphenyl   |                                |                                   |                          |                              | 38.7         | 45.6          |          | 10.0-148         |              |               |          |                 |
| (S) Tetrachloro-m-xylene |                                |                                   |                          |                              | 57.9         | 66.8          |          | 21.0-146         |              |               |          |                 |



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, 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. |
| J4        | The associated batch QC was outside the established quality control range for accuracy.  |
| P         | RPD between the primary and confirmatory analysis exceeded 40%.                          |



ESC Lab Sciences 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 ESC Lab Sciences.

## 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              |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

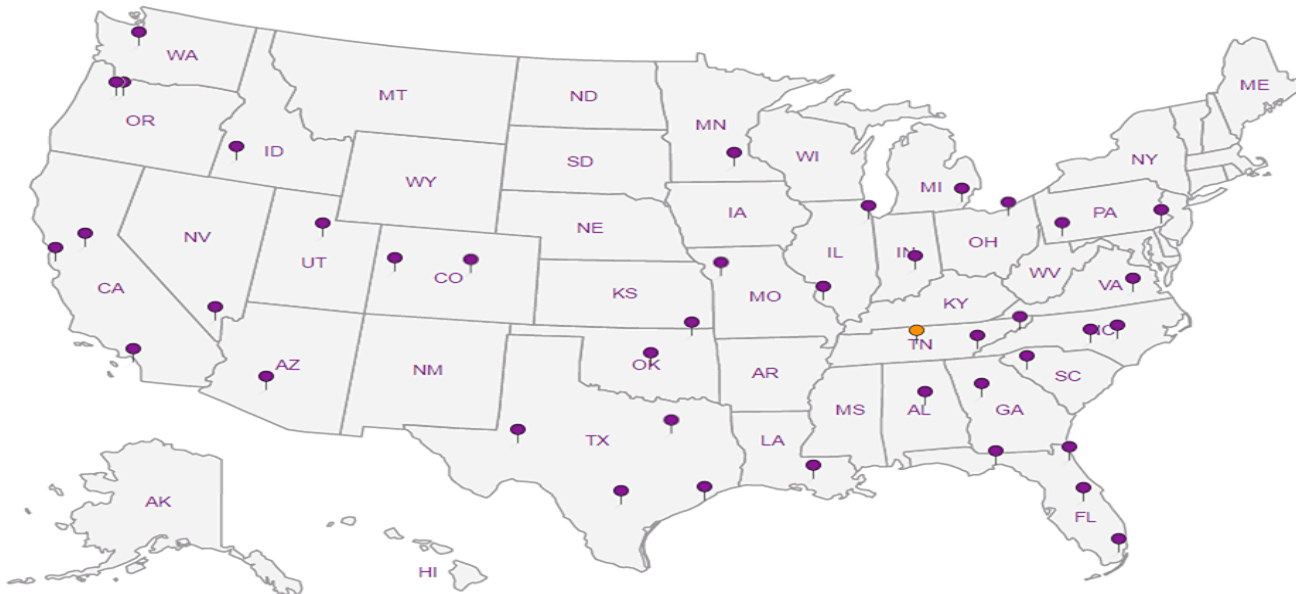
## Third Party Federal Accreditations

|                               |         |                    |               |
|-------------------------------|---------|--------------------|---------------|
| 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

ESC Lab Sciences 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. ESC Lab Sciences performs all testing at our central laboratory.



McCloskey Consultants Inc.

Billing Information:

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pres  
Chk



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



982236  
G070

Report to:  
Tom McCloskey / Chris Vertin

Email To:  
Tom McCloskey / Chris Vertin

Project Description: Presentation HS.

City/State Collected: San Jose / CA

Phone: 925.895.6628  
Fax:

Client Project #

Lab Project #

Collected by (print):  
Chris Vertin

Site/Facility ID #

P.O. #

Collected by (signature):  
[Signature]

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

Immediately Packed on Ice N  Y

No. of  
Cnts

OCPs (8081A)  
Arsenic  
Lead

| Sample ID | Comp/Grab | Matrix * | Depth  | Date    | Time  | No. of Cnts | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-----------|-----------|----------|--------|---------|-------|-------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| BP-1      | Grab      | SS       | 0-1/2' | 3-28-18 | 10:43 | 1           | X | X |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| BP-2      |           |          |        |         | 10:46 |             |   |   |   | X |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| BP-3      |           |          |        |         | 10:50 |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| BP-4      |           |          |        |         | 10:53 |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| BP-5      |           |          |        |         | 11:00 |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| BP-6      |           |          |        |         | 11:03 |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| BP-7      |           |          |        |         | 11:20 |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| BP-8      |           |          |        |         | 11:29 |             |   |   |   | X |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| BP-9      |           |          |        |         | 11:26 |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| BP-10     |           |          |        |         | 11:30 |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |

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

Remarks:

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

Sample Receipt Checklist

|                          |    |   |   |
|--------------------------|----|---|---|
| COC Seal Present/Intact: | RP | 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 |

Samples returned via:  
 UPS  FedEx  Courier

Tracking # 41016 32583939

Relinquished by: (Signature)  
[Signature]

Date: 3/29/18  
Time: 0800

Received by: (Signature)  
[Signature] Esc

Trip Blank Received: Yes/No  
HCL/MeOH TBR

Relinquished by: (Signature)  
[Signature] ESC

Date: 3/29/18  
Time: 1500

Received by: (Signature)  
[Signature] FedEx

Temp: 11.4 °C  
Bottles Received: 15

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Received for lab by: (Signature)  
[Signature]

Date: 3.31.18  
Time: 845

Hold: Condition: NCF / OK

McCloskey Consultants Inc.

Billing Information:

Pres  
Chk

Analysis / Container / Preservative



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



Report to: Tom McCloskey / Chris Vertin

Email To: Tom McCloskey / Chris Vertin

Project Description: Presentation H.S.

City/State Collected: San Jose, CA

Phone: 975-8156628  
Fax:

Client Project #

Lab Project #

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Collected by (signature): [Signature]

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

Quote #

Immediately Packed on Ice N  Y

Date Results Needed

No. of Cntrs

CCP's (8081A)  
Arsenic  
Lead

L # 982236  
Table #  
Actnum:  
Template:  
Prelogin:  
TSR:  
PB:  
Shipped Via:

| Sample ID | Comp/Grab | Matrix * | Depth  | Date    | Time  | No. of Cntrs |
|-----------|-----------|----------|--------|---------|-------|--------------|
| BP-11     | Grab      | SS       | 0-1/2' | 3-28-18 | 11:33 | 1            |
| BP-12     |           |          |        |         | 12:04 |              |
| BP-13     |           |          |        |         | 12:07 |              |
| BP-14     |           |          |        |         | 11:50 |              |
| BP-15     |           |          |        |         | 11:55 |              |
| BP-16     |           |          |        |         |       |              |

| Remarks | Sample # (lab only) |
|---------|---------------------|
|         | -11                 |
|         | -12                 |
|         | -13                 |
|         | -17                 |
|         | -15                 |

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

Remarks:  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_  
 Samples returned via: \_\_\_\_\_ Tracking # 4146 3258 3939

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: 3/29/18  
 Relinquished by: (Signature) [Signature] ESC  
 Date: 3/29/18  
 Relinquished by: (Signature) [Signature]

Date: 3/29/18  
 Time: 0800  
 Date: 3/29/18  
 Time: 1500

Received by: (Signature) [Signature] Esc  
 Received by: (Signature) [Signature] FedEx  
 Received for lab by: (Signature) [Signature] 862

Trip Blank Received: Yes/No  
 HCL / MeOH  
 TBR  
 Temp: 1.4 °C  
 Bottles Received: 17  
 Date: 3.31.18  
 Time: 845

If preservation required by Login: Date/Time  
 Hold:  
 Condition: NCF / OK