



AEI Consultants

June 18, 2018, Revised August 24, 2018

LIMITED PHASE II SUBSURFACE INVESTIGATION

Property Identification:

325 Yolanda Avenue & 2532 Santa Rosa Avenue
Santa Rosa, Sonoma County, California 95407

AEI Project No. 387046

Prepared for:

Wolff Enterprises II, LLC
6710 East Camelback Road, Suite 100
Scottsdale, Arizona 85251

Environmental &
Engineering Due
Diligence

Site Investigation &
Remediation

Prepared by:

AEI Consultants
2500 Camino Diablo
Walnut Creek, California 94597
(925) 746-6000

Energy Performance
& Benchmarking

Industrial Hygiene

Construction
Consulting

Construction,
Site Stabilization &
Stormwater Services

Zoning Analysis
Reports & ALTA
Surveys

National Presence

Regional Focus

Local Solutions

TABLE OF CONTENTS

| | |
|--|----------|
| 1.0 SITE DESCRIPTION..... | 1 |
| 2.0 BACKGROUND..... | 1 |
| 3.0 SCOPE OF WORK..... | 2 |
| 3.1 Health and Safety Plan..... | 2 |
| 3.2 Utility Clearance and Permits | 2 |
| 3.3 Exploratory Borings..... | 2 |
| 3.3.1 Soil Sampling | 3 |
| 3.3.2 Soil Gas Probe Installation | 3 |
| 3.3.3 Soil Gas Sampling | 4 |
| 3.3.4 Boring and Soil Gas Probe Destruction..... | 4 |
| 3.4 Investigation-Derived Waste..... | 4 |
| 3.5 Laboratory Analyses..... | 4 |
| 4.0 FINDINGS | 5 |
| 4.1 Subsurface Conditions..... | 5 |
| 4.2 Analytical Results..... | 5 |
| 4.2.1 Soil Sample Analytical Results | 5 |
| 4.2.2 Soil Gas Analytical Results | 6 |
| 5.0 SUMMARY AND CONCLUSIONS..... | 7 |
| 6.0 REFERENCES..... | 8 |
| 7.0 REPORT LIMITATIONS AND RELIANCE..... | 8 |

FIGURES

- Figure 1 Site Location Map
Figure 2 Site Map

TABLES

- Table 1 Soil Sample Data Summary
Table 2 Soil Gas Data Summary

APPENDICES

- Appendix A Permits
Appendix B Boring Logs
Appendix B Laboratory Analytical Report



August 24, 2018

Mr. Nate Carlson
Wolff Enterprises II, LLC
6710 East Camelback Road, Suite 100
Scottsdale, Arizona 85251

Subject: **Limited Phase II Subsurface Investigation**
325 Yolanda Avenue & 2532 Santa Rosa Avenue
Santa Rosa, Sonoma County, California 95407
AEI Project No. 387046

Dear Mr. Carlson:

This report presents the results of the Limited Phase II Subsurface Investigation (Phase II) performed by AEI Consultants (AEI) at 325 Yolanda Avenue & 2532 Santa Rosa Avenue, Santa Rosa, California ("the Site"). The investigation was completed in general accordance with the scope of services outlined in our proposal dated May 4, 2018 (AEI Proposal Number 57981R), which was subsequently authorized by Wolff Enterprises II, LLC on May 4, 2018.

The purpose of this investigation was to assess the presence/absence of impacted subsurface conditions (i.e., soil and soil gas) that may be associated with former underground storage tanks (USTs) at the Site and historical agricultural operations. Information regarding the site description, background, scope of work, findings, conclusions, and recommendations are provided in the following sections.

1.0 SITE DESCRIPTION

The Site is approximately 10.46 acres located on the north side of Yolanda Avenue and eastern side of Santa Rosa Avenue in Santa Rosa, California. The Site is currently a one-story warehouse planned for redevelopment with an apartment complex and is improved with asphalt and gravel-covered areas and landscaped areas. The location of the Site is shown on Figure 1. Figure 2 and Figure 3 present the Site maps.

Groundwater monitoring data obtained from the State of California GeoTracker database for a nearby property indicated that the depth to groundwater is approximately 6.68 to 10.99 feet below ground surface (bgs). Regional topography suggests that the inferred direction of groundwater flow beneath the Site is to the southwest direction.

2.0 BACKGROUND

A *Phase I Environmental Site Assessment (ESA)* was conducted by AEI and is presented in a report dated April 30, 2018. According to client-provided site plans, the Site is planned for redevelopment with an apartment complex development consisting of 11 apartment buildings,

Limited Phase II Subsurface Investigation
325 Yolanda Avenue & 2532 Santa Rosa Avenue
Santa Rosa, California 95407

one clubhouse building with a swimming pool, and four parking structures across the majority of the Site, with an In-N-Out fast food restaurant and parking lot on the northwest portion. In 2016 as part of the case closure activities for the closed leaking underground storage tank (LUST) case, soil vapor testing in the area of the former on-site gasoline USTs was performed in the southwest portion of the Site. A 2016 soil vapor investigation identified concentrations of benzene in 2016 soil gas probes SV-1, SV-4, SV-5, and SV-7 at a maximum concentration of 57 micrograms per meter cubed ($\mu\text{g}/\text{m}^3$), slightly above the Regional Water Quality Control Board (RWQCB) residential environmental screening level (ESL) for benzene of $48.5 \mu\text{g}/\text{m}^3$. As the soil vapor testing results were above the residential ESL near an area with planned redevelopment with an apartment building, this finding was considered to be a REC. Based on a review of aerial photographs, the Site was also historically used for agricultural purposes. Therefore, there is the potential that organochlorine (OC) pesticides and/or arsenic and lead containing pesticides may have been used on the Site and was considered an Other Environmental Consideration (OEC).

3.0 SCOPE OF WORK

AEI was requested to perform an investigation, including advancing 20 shallow soil borings for the collection of soil samples and four soil gas probes for the collection of soil gas samples. The soil boring and soil gas probe locations are shown on Figure 2 and Figure 3. The completed activities are summarized below.

3.1 Health and Safety Plan

A site-specific health and safety plan was prepared, reviewed by onsite personnel, and kept onsite for the duration of the fieldwork.

3.2 Utility Clearance and Permits

Drilling permit was obtained from the County of Sonoma Department of Health Services for this investigation. A copy of the drilling permit is provided in Appendix A.

Prior to drilling activities, proposed boring locations were marked on the ground surface with white paint. Upon marking, Underground Service Alert (USA) 811 North was contacted, who, in turn, notified subscribing utility companies of the planned investigation work for underground utility locations to be marked along the ground surface around the Site boundaries and proposed boring locations, where accessible. Private utility locating was conducted by Foresite of Pleasant Hill, California under subcontract to AEI to further identify and locate underground utilities on the Site, and to shift boring locations, as appropriate.

3.3 Exploratory Borings

On May 25, 2018, 20 shallow soil borings (SB-1A-D through SB-5A-D) and four soil gas probes (SV-1 through SV-4) were advanced at the Site. AEI contracted a State of California-licensed company, Environmental Control Associates of Aptos, California to advance each of the soil borings using a direct push, truck-mounted drill rig. The location and purpose of each boring are listed below:

Limited Phase II Subsurface Investigation
325 Yolanda Avenue & 2532 Santa Rosa Avenue
Santa Rosa, California 95407

- Borings SB-1A-D through SB-5A-D were advanced to a depth of two-2 feet bgs and evenly spaced across the Site for soil sample collection to assess historical agricultural use at the Site.
- Soil gas probes SV-1 through SV-4 were advanced to a depth of 5.5-feet bgs for the collection of soil gas samples in the vicinity of the 2016 soil gas probes SV-1, SV-4, SV-5, and SV-7 that exhibited benzene concentrations in soil gas in 2016.

The locations of the soil borings and soil gas probes were chosen in part based on access availability due to existing landscaping (trees, brush, and tall grasses), pavement, and utility clearance at the Site. Soil borings and soil gas probe locations are shown on Figure 2 and Figure 3.

3.3.1 Soil Sampling

During soil boring advancement, soil borings SB-1A-D through SB-5A-D and SV-1 through SV-4 were continuously sampled throughout their entire depths for the purposes of lithologic logging, field screening (headspace testing), and laboratory analyses. Soil samples were obtained using a single-walled coring system approximately 2.25 inches in diameter and 2 or 4 feet in length containing plastic liners. The coring system was connected to 1-inch diameter, flush-jointed drill rod that was hydraulically driven (pushed) by the rig to each target sample depth. Upon retrieval from each sample depth interval, the coring system was opened, and the plastic liners were removed and cut for visual inspection and lithologic logging purposes. Recovered soil samples were examined for soil classification and described on detailed boring logs in general conformance with the Unified Soil Classification System (USCS). Additional lithologic descriptions and drilling information were recorded on the boring logs, presented in Appendix B.

Upon sample collection, the ends of the plastic tubes were sealed with Teflon™ tape and capped. The samples were labeled with the project name, project number, boring number, sample depth, and sampling date/time of sampling. After labelling, the samples were placed into a chilled ice chest containing crushed ice for transport to the analytical laboratory. Chain-of-custody documentation was completed and accompanied the samples to the analytical laboratory.

3.3.2 Soil Gas Probe Installation

Four soil gas probes (SV-1 through SV-4) were installed at the Site as shown on Figure 2. The soil gas probes were installed and sampled in general accordance with the guidelines presented in the *Advisory: Active Soil Gas Investigations*, prepared by the California Department of Toxic Substances Control (DTSC), et al., dated July 2015.

Construction of soil gas probes began by advancing a borehole to approximately 5.5 feet bgs. Clean, dry sand (Lonestar No. 2/12 sand) was then backfilled into the bottom of the borehole to 5.0 feet bgs. This was followed by the installation of a temporary soil gas probe attached to inert 0.25-inch diameter Teflon™ tubing extending to the top of the sand pack. The soil gas probe was positioned at approximately 5 feet bgs in the boring. After the probe and tubing were set in place, an additional 6 inches of clean, dry sand was added above the tip of the probe. The borehole annulus above the sand pack was then filled with approximately 1 foot of dry granular bentonite, followed by the placement of hydrated granular bentonite to grade.

Limited Phase II Subsurface Investigation
325 Yolanda Avenue & 2532 Santa Rosa Avenue
Santa Rosa, California 95407

3.3.3 Soil Gas Sampling

After waiting approximately 120 minutes for the probe locations to equilibrate with the surrounding material, a shut-in test was performed to check for leaks in the above-ground sampling manifold. The shut-in test was performed by exerting a vacuum on the sealed above-ground manifold with a six-liter purge canister for at least one minute or longer. If there was any observable loss of vacuum, the fittings were adjusted until the vacuum in the sample train did not noticeably dissipate. Fittings used for the soil gas sampling train consisted of Swagelok® type fittings. A total of three volumes of air were purged from the annular space and tubing prior to collecting a sample through a laboratory-supplied regulator set at 200 milliliters per minute.

Following the shut-in test and purging, a soil gas sample was collected from the soil gas probes. A leak check was performed at each location by introducing and maintaining helium in the ambient air within a plastic shroud placed around the sample apparatus for the duration of the sample collection. The soil gas sample was collected using a laboratory-provided sampling manifold (sampling train) with an average flow rate of 200 milliliters per minute, into a one-liter Summa™ canister. Initial and final readings on the vacuum gauge were recorded at the beginning and end of sampling to confirm sample collection. Sampling was completed with a slight vacuum [of approximately -5 inches of mercury(Hg)] remaining in the canisters. Upon sample retrieval, the Summa™ canisters were labeled with the appropriate project information, including the project name, project number, sample location and depth, date and time of sampling, sampler's name, canister identification number, and the initial and final canister vacuums. Chain-of-custody documentation was completed and accompanied the Summa™ canisters to the analytical laboratory.

3.3.4 Boring and Soil Gas Probe Destruction

Upon completion of sample collection and removal the probe construction materials, the borings and soil gas probes were backfilled with a neat cement grout. The grout mixture consisted of one, 94-pound bag of Portland Type I/II cement to every five-gallons of water.

3.4 Investigation-Derived Waste

Investigation-derived waste was left onsite in two labelled, sealed, five-gallon bucket. Disposition of the waste(s) will be dependent upon the analytical results. Upon receipt of the laboratory analytical results and waste profiling, removal and transport of the waste(s) to an appropriate disposal facility can be arranged and implemented upon client approval.

3.5 Laboratory Analyses

The soil and soil gas samples were submitted to a State of California certified laboratory, ESC Lab Sciences of Mount Juliette, Tennessee for analyses. The soil samples from borings SB-1A-D through SB-5A-D at 0.5 feet bgs were composited into five four-point composites by the laboratory for analysis of organochlorine pesticides (OCP) using United States Environmental Protection Agency (US EPA) Testing Method 8081A. Five discrete samples borings SB-1A-D through SB-5A-D were analyzed for arsenic and lead using US EPA Testing Method 6010B. Soil gas samples were analyzed for VOCs using US EPA Testing TO-15 and helium as a leak check compound using ASTM D Test Method 1946-90.

Limited Phase II Subsurface Investigation
325 Yolanda Avenue & 2532 Santa Rosa Avenue
Santa Rosa, California 95407

Upon receipt and review of the initial laboratory data, discrete samples from COMP-5, SB-5A through SB-5D at 0.5 feet bgs and discrete samples SB-5A through SB-5D at 2 feet bgs were further analyzed for OCPs using US EPA Testing Method 8081A.

Chain-of-custody documentations and the certified analytical reports are provided in Appendix C.

4.0 FINDINGS

4.1 Subsurface Conditions

Subsurface conditions observed during the drilling activities of borings SB-1A-D through SB-5A-D and SV-1 through SV-4 indicate that the Site is primarily underlain by sediment including silt, sandy silt, clay, and silty clay to the maximum depth investigated (5.5 feet bgs). Groundwater was not encountered during drilling activities. There were no visual or olfactory evidence (i.e., soil discoloration, odor) of potentially-impacted soils observed in soils that were recovered during drilling activities.

4.2 Analytical Results

For the purpose of providing context to the data obtained during this investigation, analytical results are compared to available regulatory screening levels. The RWQCB ESLs and the State Water Resource Control Board's (SWRCB) Low Threat Closure Policy (LTCP) soil gas criteria (no bioattenuation zone) were used for comparison values under a residential land use scenario for this investigation. The ESLs and soil gas criteria are considered to be conservative. Under most circumstances, and within the limitations described in the ESLs and soil gas criteria, the presence of a chemical in soil or soil gas at concentrations below the corresponding ESL and soil gas criteria may be assumed to not pose a significant threat to human health and the environment. Additional evaluation may be necessary at sites where a chemical is present at concentrations above the corresponding ESL and soil gas criteria.

4.2.1 Soil Sample Analytical Results

Tables 1 presents a summary of the soil sample analytical results, and laboratory analytical documentation is provided in Appendix C. The results can be summarized as follows:

Agricultural Sampling

- Several OCPs including chlordane, 4,4-dichlorodiphenylchloroethane (4,4-DDD) 4,4-dichlorodiphenylchloroethylene (4,4-DDE), and 4,4-dichlorodiphenyltrichloroethane (4,4-DDT) were detected in the shallow soil samples collected from the Site.
 - Chlordane was detected in a composite sample from boring SB-5A-D (COMP-5) at a concentration of 1.79 milligrams per kilogram (mg/kg), which is above the applicable Tier 1 and direct contact residential ESLs of 0.48 mg/kg. Chlordane was not detected at or above the laboratory method reporting limits (MRLs) in the other four compositions samples (COMP-1, COMP-2, COMP-3, and COMP-4).
 - The discrete samples from COMP-5 (SB-5A through SB-D at 0.5 feet bgs) and the discrete samples SB-5A through SB-5D at 2 feet bgs were further analyzed for OCPs to further evaluate the elevated chlordane. Results from the discrete analysis indicate

Limited Phase II Subsurface Investigation
325 Yolanda Avenue & 2532 Santa Rosa Avenue
Santa Rosa, California 95407

that elevated chlordane was detected in sample SB-5A at 0.5 feet bgs at a concentration of 8.70 mg/kg, which exceed the applicable Tier 1 and direct contact residential ESLs of 0.48 mg/kg. Chlordane was not detected at or above the laboratory MRLs in the deeper 2 feet bgs sample at location SB-5A. In addition, low levels of chlordane were detected in SB-5B and SB-5C at concentrations of 0.114 mg/kg and 0.116 mg/kg, which is protective of the applicable Tier 1 and direct contact residential ESLs of 0.48 mg/kg.

- Low concentrations of 4,4-DDE and 4,4-DDT were detected in the composition sample COMP-4 at concentrations of 0.00125 mg/kg and 0.00153 mg/kg, respectively. The concentrations are protective of the applicable Tier 1 and direct contact residential ESLs of 1.9 mg/kg.
- Concentrations of 4,4-DDT were detected in discrete samples SB-5A, SB-5B, SB-5C, and SB-5D at 0.5 feet bgs at concentrations of 0.029 mg/kg, 0.00354 mg/kg, 0.00132 mg/kg, and 0.00258 mg/kg, respectively. The concentrations are protective of the applicable Tier 1 and direct contact residential ESLs of 1.9 mg/kg. Concentrations of 4,4-DDT were not detected at or above the laboratory MRL in each of the respective deeper 2 feet bgs samples.
- Concentrations of 4,4-DDD were detected in discrete sample SB-5D at 0.5 feet bgs at a concentration of 0.00105 mg/kg. The concentration is protective of the applicable Tier 1 and direct contact residential ESLs of 2.7 mg/kg. Concentrations of 4,4-DDD were not detected at or above the laboratory MRL in the deeper 2 feet bgs sample.
- Arsenic and lead were detected in discrete soil samples collected from soil borings SB-1D through SB-5D.
 - Lead concentrations ranged from 6.83 mg/kg to 38.2 mg/kg. The detected concentrations of lead were protective of the applicable Tier 1 and direct contact residential ESLs of 80 mg/kg.
 - Arsenic concentrations ranged from 1.26 mg/kg to 6.43 mg/kg. The detected arsenic concentrations were found to exceed applicable Tier 1 and direct contact residential ESLs (0.067 mg/kg); however, the detected concentrations of arsenic in shallow soils at the Site are found to be within the range of naturally-occurring background levels (upper limit of 11 mg/kg) in San Francisco Bay Area Holocene alluvium soils (Duverge, 2011). Research studies performed in other portions of the San Francisco Bay Area (Lawrence Berkeley National Laboratory, 2002; Scott, 1991) and nationwide (Shacklette and Boerngen, 1984) have cited larger ranges of background arsenic concentrations.

4.2.2 Soil Gas Analytical Results

Table 2 presents a summary of the soil gas sample analytical results, and laboratory analytical documentation is provided in Appendix C. The results can be summarized as follows:

- The soil gas samples yielded benzene, toluene, ethylbenzene, and total xylenes (collectively "BTEX compounds") concentrations of 50.9 µg/m³ (SV-1) 138 µg/m³ (SV-3), 47.1 µg/m³ (SV-1) and 244 µg/m³ (SV-1), respectively. The concentration of benzene in SV-1 (50.9 µg/m³) was observed is slightly above the applicable ESL of 48 µg/m³; however, is below the SWRCB

Limited Phase II Subsurface Investigation
325 Yolanda Avenue & 2532 Santa Rosa Avenue
Santa Rosa, California 95407

LTCP soil gas criteria of 85 µg/m³. The other detected concentrations did not exceed the applicable ESLs for residential vapor intrusion.

- Several additional VOCs were detected in the soil gas samples collected and analyzed as shown on Table 2; however, the detected VOCs were below their applicable ESLs for residential vapor intrusion.
- The leak check compound helium was not detected in the soil gas samples collected indicating that a significant leak was not present during sampling and the results collected are therefore considered valid for their intended purpose.

5.0 SUMMARY AND CONCLUSIONS

AEI performed a limited Phase II subsurface investigation at the Site as described above. The purpose of this investigation was to assess whether subsurface conditions (i.e., soil and soil gas) associated with the former USTs and historical agricultural operations have significantly affected the Site. Twenty shallow soil borings and four soil gas probes were advanced during the investigation for the collection of soil and soil gas samples. Soil samples collected were analyzed for OCPs, arsenic, lead, and VOCs. Soil gas samples collected were analyzed for VOCs.

Analytical results generated during this investigation indicate the following:

- Shallow soil sample results for the agricultural investigation indicated elevated concentrations of chlordane in the composition soil sample (COMP-5) collected from soil borings SB-5A through SB-5D at 0.5 feet bgs that exceed the applicable Tier 1 and direct contact residential ESLs. Further analysis of the discrete soil samples from COMP-5 indicate that the elevated chlordane was primarily from the soil sample collected from soil boring SB-5A at a depth of 0.5 feet bgs. Chlordane was not detected at or above the laboratory MRLs in the deeper two-foot bgs sample at location SB-5A. Based on the results, the residual chlordane concentrations are likely limited in vertical and lateral extent. In addition, arsenic was detected at concentrations ranging from 1.26 mg/kg to 6.43 mg/kg, which is consistent with typical background concentrations (up to 11 mg/kg) for the Bay Area (Duvergé, 2011). Based on the elevated chlordane concentrations detected in SB-5A at 0.5 feet bgs, AEI recommends a Site Management Plan for the northwestern portion of the Site to manage exposure to soils that could be potentially impacted with elevated residual chlordane concentrations.
- Soil gas sample results from the former UST area indicates that low concentrations of BTEX compounds were detected in each of the four soil gas samples analyzed. Results from soil gas probe SV-1, advanced near 2016 soil gas sample SV-5 indicate a benzene concentration of 50.9 µg/m³, slightly lower than 2016 soil gas probe SV-5 result of 57 µg/m³. Although the concentration is slightly above the residential ESL of 48 µg/m³, it is below the LTCP residential soil gas criteria of 85 µg/m³. Based on the results, a small area of residual hydrocarbons is likely still present beneath the Site in the vicinity of the former gasoline USTs. AEI recommends to implement the *Revised Soil and Groundwater Management Plan and Health and Safety Plan* prepared by Environmental Geology Services dated May 12, 2017 to manage impacted soil in the southwestern portion of the Site that may be identified during the Site redevelopment.

Limited Phase II Subsurface Investigation
325 Yolanda Avenue & 2532 Santa Rosa Avenue
Santa Rosa, California 95407

6.0 REFERENCES

AEI Consultants, 2018, *Phase I Environmental Site Assessment, 325 Yolanda Avenue & 2532 Santa Rosa Avenue, Santa Rosa, Sonoma County, California 95407*, technical report prepared Wolff Enterprises II, LLC, dated April 30, 2018.

California Department of Toxic Substances Control, et al., 2015. *Advisory: Active Soil Gas Investigations*. July.

California Department of Toxic Substances Control, et al., 2011. *Final: Vapor Intrusion Guidance*. October.

Duverge, D.J., 2011, *Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region*, San Francisco State University, MS thesis, dated December 2011.

San Francisco Bay Regional Water Quality Control Board, 2016, *Environmental Screening Levels (ESLs)*, February 2016, revision 3.

7.0 REPORT LIMITATIONS AND RELIANCE

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the requested information, subject to scope of work for which AEI was retained and limitations inherent in this type of work, but it cannot be assumed that they are representative of areas not sampled. This report should not be regarded as a guarantee that no further contamination beyond that which could have been detected within the scope of this investigation is present beneath the subject property. Undocumented, unauthorized releases of hazardous material, the remains of which are not readily identifiable by visual inspection and are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation.

Any conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document. These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work. No other warranty, either expressed or implied, has been made.

This investigation was prepared for the sole use and benefit of Wolff Enterprises II, LLC. All reports, both verbal and written, whether in draft or final, are for the benefit of Wolff Enterprises II, LLC. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's Proposal and Standard Terms & Conditions executed by Wolff Enterprises II, LLC. The limitation

Limited Phase II Subsurface Investigation
325 Yolanda Avenue & 2532 Santa Rosa Avenue
Santa Rosa, California 95407

of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

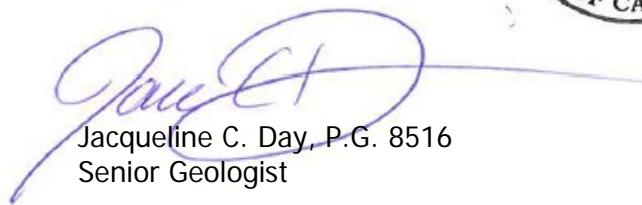
If there are any questions regarding our investigation, please do not hesitate to contact AEI at (925) 746-6000.

Sincerely,
AEI Consultants

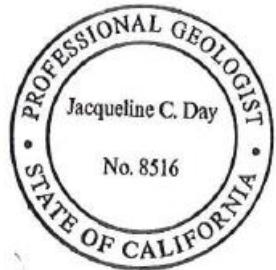


Nina Abdollahian, GIT
Project Geologist

2500 Camino Diablo
Walnut Creek, California 94597
Phone: (925) 746-6000
Fax: (925) 746-6099



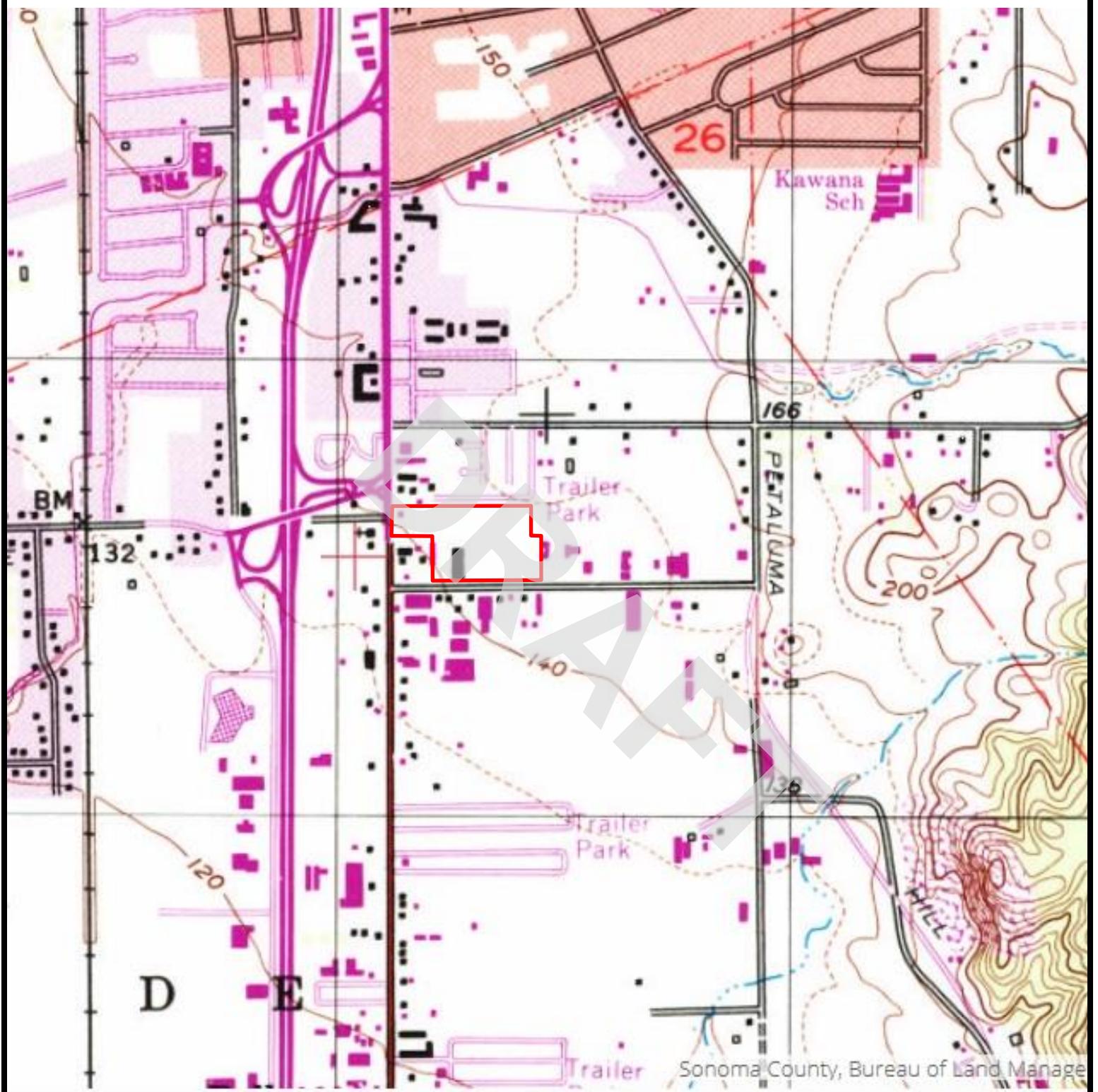
Jacqueline C. Day, P.G. 8516
Senior Geologist



FIGURES



AEI Consultants



Legend

Approximate Property Boundary

Source: USGS Topographic Map *Santa Rosa, CA* (1994)



Figure 1: SITE LOCATION MAP
325 Yolanda Avenue and 2532 Santa Rosa Avenue, Santa Rosa, CA 95407
Project Number: 387046

AEI
Consultants



LEGEND

- Approximate Property Boundary
- ⊕ Soil Gas Probe Location
- Approximate Location of Existing Underground Storage Tanks
- ⊕ Soil Gas Probe Location (TEG 2016)

AEI Consultants

2500 Camino Diablo, Walnut Creek, California

SITE MAP

325 Yolanda Avenue &
2532 Santa Rosa Avenue,
Santa Rosa, California 95407

FIGURE 2
Project No. 387046



AEI Consultants

LEGEND

- Legend
- 1 - Former Hillsman Transportation building
 - 2 - Warehouses
 - 3 - Vacant Office
 - 4 - Storage Container
 - 5 - Former gasoline UST location
 - 6 - Vacant Office
 - 7 - Location of former diesel fuel USTs
 - 8 - Sheds
 - 9 - Shed with pressure tank & possible well
 - 10 - Concrete block structure



TABLES



AEI Consultants

TABLE 1: SOIL SAMPLE DATA SUMMARY
325 Yoland Avenue 2532 Santa Rosa Avenue
Santa Rosa, California, 95407

| Location ID | Date | Depth (feet bgs) | Chlordane (mg/kg) | 4,4-DDD (mg/kg) | 4,4-DDE (mg/kg) | 4,4-DDT (mg/kg) | Other Pesticides (mg/kg) | Arsenic (mg/kg) | Lead (mg/kg) |
|---------------------------------|-----------|---------------------|----------------------|--------------------|--------------------|--------------------|--------------------------------|--------------------|-----------------|
| COMPOSITE SAMPLE RESULTS | | | | | | | | | |
| COMP-1 | 5/11/2018 | 0.5 | <0.216 | <0.0216 | <0.0216 | 0.00116 J | <MRL | NA | NA |
| COMP-2 | 5/11/2018 | 0.5 | <0.219 | <0.0219 | <0.0219 | <0.0219 | <MRL | NA | NA |
| COMP-3 | 5/11/2018 | 0.5 | <0.223 | <0.0223 | <0.0223 | <0.0223 | <MRL | NA | NA |
| COMP-4 | 5/11/2018 | 0.5 | <0.217 | <0.0217 | 0.00125 J,P | 0.00153 J | <MRL | NA | NA |
| COMP-5 | 5/11/2018 | 0.5 | 1.79 | <0.0214 | <0.0214 | 0.0104 J | <MRL | NA | NA |
| DISCRETE SAMPLE RESULTS | | | | | | | | | |
| SB-1D | 5/11/2018 | 0.5 | NA | NA | NA | NA | NA | 1.97 J | 6.83 |
| SB-2D | 5/11/2018 | 0.5 | NA | NA | NA | NA | NA | 1.26 J | 18.2 |
| SB-3D | 5/11/2018 | 0.5 | NA | NA | NA | NA | NA | 5.04 | 6.97 |
| SB-4D | 5/11/2018 | 0.5 | NA | NA | NA | NA | NA | 6.43 | 38.2 |
| SB-5A | 5/11/2018 | 0.5 | 8.70 | <0.0208 | <0.0208 | 0.029 | <MRL | NA | NA |
| SB-5A | 5/11/2018 | 2 | <0.231 | <0.0231 | <0.0231 | <0.0231 | <MRL | NA | NA |
| SB-5B | 5/11/2018 | 0.5 | 0.114 J | <0.0228 | <0.0228 | 0.00354 J | <MRL | NA | NA |
| SB-5B | 5/11/2018 | 2 | <0.234 | <0.0234 | <0.0234 | <0.0234 | <MRL | NA | NA |
| SB-5C | 5/11/2018 | 0.5 | 0.116 J | <0.0221 | <0.0221 | 0.00132 J | <MRL | NA | NA |
| SB-5C | 5/11/2018 | 2 | <0.232 | <0.0232 | <0.0232 | <0.0232 | <MRL | NA | NA |
| SB-5D | 5/11/2018 | 0.5 | <0.215 | 0.00105 J | <0.0215 | 0.00258 J | <MRL | 2.95 | 37.3 |
| SB-5D | 5/11/2018 | 2 | <0.228 | <0.0228 | <0.0228 | <0.0228 | <MRL | NA | NA |

Comparison Values:

| | | | | | | | |
|--------------------------------|-------------|-----|-----|-----|---------|--------------------------|----|
| Tier 1 | 0.48 | 2.7 | 1.9 | 1.9 | Various | 0.067¹ | 80 |
| ESL - Residential Shallow Soil | 0.48 | 2.7 | 1.9 | 1.9 | Various | 0.067¹ | 80 |

Notes:

- mg/kg milligrams per kilogram
- <MRL less than the laboratory method reporting limit
- NA not analyzed
- bgs below ground surface
- DDD Dichlorodiphenylchloroethane
- DDE Dichlorodiphenylchloroethylene
- DDT Dichlorodiphenyltrichloroethane
- Bold** Result exceeds a regulatory screening level
- J The identification of the analyte is acceptable; the reported value is an estimate.
- P Agreement between quantitative confirmation results exceed method recommended limits.
- ¹ Arsenic concentrations from Establishing Background Arsenic in Soil of the San Francisco Bay Region, December 2011 study indicate background levels of arsenic in California Bay Area soil has background upper limit of 11 mg/kg.

Comparison Values:

ESL Direct Contact: Direct Exposure Human Health for Residential Shallow Soil Exposure; Environmental Screening Levels (ESLs) from February 2016 (Rev. 3) ESL Summary Tables, prepared by the San Francisco Bay Regional Water Quality Control Board

TABLE 2: SOIL GAS SAMPLE DATA SUMMARY
325 Yoland Avenue & 2532 Santa Rosa Avenue
Santa Rosa, California, 95407

| Location ID | Date | Depth (feet bgs) | Benzene ($\mu\text{g}/\text{m}^3$) | Toluene ($\mu\text{g}/\text{m}^3$) | Ethylbenzene ($\mu\text{g}/\text{m}^3$) | Total Xylenes ($\mu\text{g}/\text{m}^3$) | PCE ($\mu\text{g}/\text{m}^3$) | Acetone ($\mu\text{g}/\text{m}^3$) | 1,3-Butadiene ($\mu\text{g}/\text{m}^3$) | Carbon Disulfide ($\mu\text{g}/\text{m}^3$) | Chloromethane ($\mu\text{g}/\text{m}^3$) | Cylohexane ($\mu\text{g}/\text{m}^3$) | Ethanol ($\mu\text{g}/\text{m}^3$) | 4-Ethyltoluene ($\mu\text{g}/\text{m}^3$) | Heptane ($\mu\text{g}/\text{m}^3$) | n-Hexane ($\mu\text{g}/\text{m}^3$) |
|--------------------------------------|-----------|------------------|--------------------------------------|--------------------------------------|---|--|----------------------------------|--------------------------------------|--|---|--|---|--------------------------------------|---|--------------------------------------|---------------------------------------|
| SV-1 | 5/25/2018 | 5 | 50.9 | 68.5 | 47.1 | 244 | <2.72 | 117 | 55.2 | 20.5 | 2.99 | 66.2 | 82.0 | 8.31 | 49.5 | 841 |
| SV-2 | 5/25/2018 | 5 | 41.1 | 117 | 16.9 | 70.0 | <2.72 | 91.8 | 16.7 | 11.8 | 3.13 | 24.5 | 93.5 | 5.22 | 45.0 | 69.3 |
| SV-3 | 5/25/2018 | 5 | 37.4 | 138 | 12.9 | 52.7 | 4.34 | 144 | 23.7 | 12.0 | 2.33 | 24.3 | 119 | <1.96 | 30.6 | 116 |
| SV-4 | 5/25/2018 | 5 | 30.3 | 59.1 | 7.56 | 32.7 | 3.12 | 62.3 | 16.2 | 12.3 | 2.67 | 56.6 | 58.7 | 2.82 | 26.6 | 48.1 |
| Comparison Values: | | | | | | | | | | | | | | | | |
| RWQCB ESL _{VI} Residential: | | | 48 | 160,000 | 560 | 52,000 | 240 | 16,000,000 | -- | -- | 47,000 | -- | -- | -- | -- | -- |
| CWRCB LTCP: | | | 85 | --- | 1,100 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Notes:

$\mu\text{g}/\text{m}^3$ micrograms per cubic meter
 <MRL less than the laboratory method reporting limit
 --- No established comparison value
 bgs below ground surface
 PCE Tetrachloroethene
Bold Result exceeds a Comparison Value

Comparison Values:

RWQCB ESL_{VI} Residential: San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels for subslab/soil gas vapor intrusion human health risk levels under a residential (Residential)
 subslab/soil gas vapor intrusion human health risk levels under a residential (Residential)

CWRCB LTCP: California State Water Resources Control Board Low-Threat Underground Storage Tank Case Closure Policy where no bioattenuation is present (Aug 2012)

TABLE 3: SOIL GAS SAMPLE DATA SUMMARY
325 Yoland Avenue & 2532 Santa Rosa Avenue
Santa Rosa, California, 95407

| Location ID | Date | Depth (feet bgs) | Isopropyl-benzene ($\mu\text{g}/\text{m}^3$) | Methylene Chloride ($\mu\text{g}/\text{m}^3$) | 2-Butanone ($\mu\text{g}/\text{m}^3$) | 2-Propanol ($\mu\text{g}/\text{m}^3$) | Propene ($\mu\text{g}/\text{m}^3$) | Styrene ($\mu\text{g}/\text{m}^3$) | 1,2,4-Trimethylbenzene ($\mu\text{g}/\text{m}^3$) | 1,3,5-Trimethylbenzene ($\mu\text{g}/\text{m}^3$) | 2,2,4-Trimethylpentane ($\mu\text{g}/\text{m}^3$) | 1,1-Difluoroethane ($\mu\text{g}/\text{m}^3$) | Remaining VOCs ($\mu\text{g}/\text{m}^3$) | Helium (Leak Check) (%) |
|--------------------------------------|-----------|------------------|--|---|---|---|--------------------------------------|--------------------------------------|---|---|---|---|---|-------------------------|
| SV-1 | 5/25/2018 | 5 | 1.97 | <1.39 | 33.4 | <6.15 | 964 | <1.70 | 7.06 | 4.12 | 27.5 | 26.2 | <MRL | <0.0% |
| SV-2 | 5/25/2018 | 5 | <1.97 | <1.39 | 36.3 | <6.15 | 433 | 2.41 | 4.11 | <1.96 | 65.0 | 7.73 | <MRL | <0.0% |
| SV-3 | 5/25/2018 | 5 | <1.97 | 2.24 | 35.5 | 45.5 | 193 | 2.39 | 3.72 | <1.96 | 39.8 | 39.9 | <MRL | <0.0% |
| SV-4 | 5/25/2018 | 5 | <1.97 | <1.39 | 18.0 | <6.15 | 131 | <1.70 | 2.47 | <1.96 | 24.1 | 14.6 | <MRL | <0.0% |
| Comparison Values: | | | | | | | | | | | | | | |
| RWQCB ESL _{VI} Residential: | | | --- | 510 | --- | --- | --- | 470,000 | --- | --- | --- | --- | Various | --- |
| CWRCB LTCP: | | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | Various | --- |

Notes:

$\mu\text{g}/\text{m}^3$ micrograms per cubic meter
 <MRL less than the laboratory method reporting
 --- No established comparison value
 bgs below ground surface
 PCE Tetrachloroethene
Bold Result exceeds a Comparison Value

Comparison Values:

RWQCB ESL_{VI} Residential: San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels for subslab/soil gas vapor intrusion human health risk levels under a residential (Residential)
 subslab/soil gas vapor intrusion human health risk levels under a residential (Residential)

CWRCB LTCP: California State Water Resources Control Board Low-Threat Underground Storage Tank Case Closure Policy where no bioattenuation is present (Aug 2012)

APPENDIX A

PERMITS



AEI Consultants

DEPT. OF HEALTH SVCS

COUNTY OF SONOMA — DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH & SAFETY
625 5th Street, Santa Rosa, CA 95404
Phone (707) 565-6565 Fax (707) 565-6525 www.sonomacounty.ca.gov
APPLICATION FOR DRILLING PERMIT
for Regional Board Lead/Environmental Assessment/LOP Lead

MAY 08 2018

| | |
|----------------------------|--------------------------|
| <i>For Office Use Only</i> | |
| Amount Paid | 643 |
| Receipt Number | 057B PE 1416 |
| Payment Date | 5-10-18 Rev. Code 115023 |
| Site ID# | FA0038410 |
| Permit # | SR0015435 |

Permit Type:

Monitoring Well Borings Destruct Environmental Assessment

Well Type: Remediation Well Extraction Well Soil Vapor
 Other 4 soil vapor borings to 5 feet

DEPT. OF HEALTH SVCS

On-Site Well _____ ID # _____ # Off-Site Well _____ ID # _____ MAY 10 2018

On-Site Boring 4 _____ ID # _____ # Off-Site Boring _____ ID # _____ ENVIRONMENTAL
HEALTH & SAFETY

Submit legal right-of-entry/off-site well address/encroachment permit

Site Address 325 Yolanda Avenue AP# 044-071-002-000

Facility Name Hulsman Transportation Company

Site Owner Paul Hulsman Phone (707) 479-9023

Street 325 Yolanda Avenue City Santa Rosa State CA Zip 95407

Responsible Party Nate Carlson Phone ncarlson@awolff.com

Street 6710 East Camelback Road City Scottsdale State AZ Zip 85251

Consultant AEI Consultants License#/Type A HAZ Phone 925-746-6000

Street 2500 Camino Diablo City Walnut Creek State CA Zip 94597

License #/Type 654919 Email tyerkes@aeiconsultants.com

Drilling Contractor Environmental Control Associates Phone 916-417-6858

Street 3011 Twin Palms Drive City Aptos State CA Zip 95003

C-57 License 695970

Disposal method for soil cuttings Drummed for offsite disposal

Disposal method for development water N/A

Drilling method Direct-push

Method of drill equipment rinsate containment and disposal Drummed for offsite disposal 117037**

If destroying a well, abandonment method N/A 115023D DRILLING 643.00

Submit plot plan of wells in relation to all sewer or septic lines. TTLAMT 643.00 CHECKS 643.00

Is well to be constructed within: 100 feet of a septic tank or leach field? Yes No CHANGE 0.0050 feet of any sanitary sewer line? Yes No 05/10/18 057B #2 13:1225 feet of any private sanitary sewer line? Yes NoIn addition, all monitoring wells must include an *identification system* affixed to the interior surface:

- 1) Well identification 2) Well type 3) Well depth 4) Well casing diameter 5) Perforated intervals

Well identification number and well type shall be *affixed* to the *exterior surface* security structure.

 ENTERED
EP

For Office Use Only

Address 325 Yolanda Ave

Site ID# FAD0038410

Permit # 3R0015435

I hereby agree to comply with all laws and regulations of the County of Sonoma and State of California pertaining to water well construction. I will telephone (707) 565-6565, 48 hours in advance, to notify the Environmental Health Specialist when completing or destroying a well. I will furnish the Director of Environmental Health and the owner a legible copy of the State Water Well Driller's Report within 15 days; and a copy of the Summary Report, including sample results, should be received by the Department of Health Services, Environmental Health and Safety Section within 90 days in order to obtain final approval on this well permit. I acknowledge that the application will become a permit **only** after site approval and payment of fee. I understand that this permit is not transferable and expires one year from date of issuance.

Tu Tyler

Date 5/7/18

Signature of Well Driller—no proxies (*Wet Signature Required*)

Insurance Carrier State Fund, Policy No. 1972096-18

Expiration Date 5/1/18

Once all wells/borings are installed, submit a Well Driller's Log and/or Summary Report to complete permit process.

Indicate on attached plot plan the exact location of well(s) with respect to the following items: property lines, water bodies or water courses drainage pattern, roads, existing wells, sewer main and laterals and private sewage disposal systems or other sources of contamination or pollution. INCLUDE DIMENSIONS. The validity of this permit depends upon the accuracy of the information provided by the applicant.

Conditions of permit:

- Conditions of permit:

 1. Provide 48 hours advance notice of drilling.
 2. Soil vapor wells shall be constructed and decommissioned in accordance with DTSC's Advisory- Active Soil Gas Investigations (2015).
 3. Provide a final report with sample results and boring logs to this department within 90 days of work completion.

FOR OFFICE USE ONLY – ENVIRONMENTAL HEALTH & SAFETY

Permit approved by Lisa Lamb Date 5/23/18

Constr. approved by _____ Observed? Yes No Well # _____ Date _____ / _____ / _____

RWQCB/LOP approval _____ Date _____ / _____ / _____

APPENDIX B
BORING LOGS



AEI Consultants



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-1A

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|--|------------|
| 0 | <input checked="" type="checkbox"/> SB-1A-0.5 <input checked="" type="checkbox"/> SB-1A-2 | | | 2.0 | SILTY SAND (SM) very dark grayish brown (2.5Y 3/2) medium dense, moist | |

Bottom of borehole at 2.0 feet.



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-1B

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|--|------------|
| 0 | <input checked="" type="checkbox"/> SB-1B-0.5 <input checked="" type="checkbox"/> SB-1B-2 | | | | CLAY (CH) very dark grayish brown (2.5Y 3/2) stiff, moist, high plasticity | |
| | | | 2.0 | | Bottom of borehole at 2.0 feet. | |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-1C

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC
PROJECT NUMBER 387046
DATE STARTED 5/25/18 **COMPLETED** 5/25/18
DRILLING CONTRACTOR Environmental Control Associates, Inc.
DRILLING METHOD Direct Push
LOGGED BY T. Yerkes **CHECKED BY** J. Day
NOTES _____

PROJECT NAME Wolf Enterprises II, LLC
PROJECT LOCATION Santa Rosa, California
GROUND ELEVATION _____ **HOLE SIZE** 2.25 inches
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|---|------------|
| 0 | <input checked="" type="checkbox"/> SB-1C-0.5 <input checked="" type="checkbox"/> SB-1C-2 | | | 2.0 | CLAY (CL) very dark grayish brown (2.5Y 3/2) medium stiff, moist, medium plasticity | |

Bottom of borehole at 2.0 feet.



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-1D

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|---|------------|
| 0 | <input checked="" type="checkbox"/> SB-1D-0.5 <input checked="" type="checkbox"/> SB-1D-2 | | | 2.0 | SILTY SANDY GRAVEL (GM) loose, dry, fine to coarse gravel | |

Bottom of borehole at 2.0 feet.



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-2A

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|--|------------|
| 0 | <input checked="" type="checkbox"/> SB-2A-0.5 <input checked="" type="checkbox"/> SB-2A-2 | | | 1.0 | SILT (ML) very dark grayish brown (10YR 3/2) soft, moist | |
| | | | | 2.0 | CLAY (CL) very dark grayish brown (10YR 3/2) stiff, moist, medium plasticity | |
| | | | | | Bottom of borehole at 2.0 feet. | |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-2B

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|---|----------------|----------------|----------------|---|------------|
| 0 | | | | | | |
| | <input checked="" type="checkbox"/> SB-2B-0.5 | | | | 1.0 SILT (ML) very dark grayish brown (10YR 3/2) soft, moist 2.0 CLAY (CL) trace sand, very dark grayish brown (10YR 3/2), stiff, moist, medium plasticity | |
| | <input checked="" type="checkbox"/> SB-2B-2 | | | | Bottom of borehole at 2.0 feet. | |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-2C

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 **COMPLETED** 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes **CHECKED BY** J. Day

NOTES

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ **HOLE SIZE** 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | MATERIAL DESCRIPTION | | COMPLETION |
|---------------|-----------------------|----------------|----------------|----------------------|--|------------|
| | | | | GRAPHIC LOG | | |
| 0 | SB-2C-0.5 | | | 1.0 | SILT (ML), trace fine gravel, brown (10YR 4/4), soft, dry | |
| | SB-2C-2 | | | 2.0 | SILTY CLAY (CL) brown (10YR 4/4) stiff, moist, medium plasticity | |

Bottom of borehole at 2.0 feet.



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-2D

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|--|------------|
| 0 | <input checked="" type="checkbox"/> SB-2D-0.5 <input checked="" type="checkbox"/> SB-2D-2 | | | 2.0 | SILT (ML), some fine sand, dark yellowish brown (10YR 3/4), loose, dry | |
| | | | | | Bottom of borehole at 2.0 feet. | |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-3A

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|---|------------|
| 0 | <input checked="" type="checkbox"/> SB-3A-0.5 <input checked="" type="checkbox"/> SB-3A-2 | | | 2.0 | SANDY SILT (ML), with fine gravel, dark brown (10YR 3/3), soft, moist | |
| | | | | | Bottom of borehole at 2.0 feet. | |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-3B

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|--|------------|
| 0 | <input checked="" type="checkbox"/> SB-3B-0.5 <input checked="" type="checkbox"/> SB-3B-2 | | | 1.0 | SILT (ML) very dark grayish brown (10YR 3/2) soft, moist | |
| | | | | 2.0 | CLAY (CL) very dark grayish brown (10YR 3/2) stiff, moist, medium plasticity | |
| | | | | | Bottom of borehole at 2.0 feet. | |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-3C

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|---|----------------|----------------|----------------|---|------------|
| 0 | | | | | | |
| | <input checked="" type="checkbox"/> SB-3C-0.5 | | | 1.0 | SILT (ML) trace coarse sand, dark brown (10YR 3/3), soft, moist | |
| | <input checked="" type="checkbox"/> SB-3C-2 | | | 2.0 | CLAY (CL) brown (10YR 4/3) soft, moist, moist, high plasticity | |

Bottom of borehole at 2.0 feet.



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-3D

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|---|------------|
| 0 | <input checked="" type="checkbox"/> SB-3D-0.5 <input checked="" type="checkbox"/> SB-3D-2 | | | | CLAY (CL) brown (10YR 4/4) medium stiff, moist, medium plasticity | |
| | | | 2.0 | | Bottom of borehole at 2.0 feet. | |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-4A

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|--|------------|
| 0 | <input checked="" type="checkbox"/> SB-4A-0.5 <input checked="" type="checkbox"/> SB-4A-2 | | | 2.0 | SILTY SAND (SM) dark yellowish brown (10YR 4/4) soft, moist, fine to medium sand | |

Bottom of borehole at 2.0 feet.



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-4B

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|---|----------------|----------------|----------------|--|------------|
| 0 | <input checked="" type="checkbox"/> SB-4B-0.5 | | | 1.0 | SILTY SAND (SM) dark yellowish brown (10YR 4/4) soft, moist, fine to medium sand | |
| | <input checked="" type="checkbox"/> SB-4B-2 | | | 2.0 | CLAY (CL) dark yellowish brown (10YR 4/4) soft, moist, high plasticity | |
| | | | | | Bottom of borehole at 2.0 feet. | |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-4C

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|--|------------|
| 0 | <input checked="" type="checkbox"/> SB-4C-0.5 <input checked="" type="checkbox"/> SB-4C-2 | | | 2.0 | SILTY SAND (SM), some clay, very dark grayish brown (10YR 3/2), soft, moist, fine to coarse sand | |

Bottom of borehole at 2.0 feet.



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-4D

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|---|------------|
| 0 | <input checked="" type="checkbox"/> SB-4D-0.5 <input checked="" type="checkbox"/> SB-4D-2 | | | 2.0 | SILTY SAND (SM) very dark grayish brown (10YR 3/2) soft, moist, fine to coarse sand | |

Bottom of borehole at 2.0 feet.



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-5A

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|---|------------|
| 0 | <input checked="" type="checkbox"/> SB-4B-0.5 <input checked="" type="checkbox"/> SB-4B-2 | | | 2.0 | SILT (ML), trace coarse sand, dark brown (10YR 3/3) soft, moist | |
| | | | | | Bottom of borehole at 2.0 feet. | |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-5B

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|--|------------|
| 0 | <input checked="" type="checkbox"/> SB-5B-0.5 <input checked="" type="checkbox"/> SB-5B-2 | | | | SILT (ML) trace fine gravel, brown (10YR 4/3), soft, dry | |
| | | | | 2.0 | | |
| | | | | | Bottom of borehole at 2.0 feet. | |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-5C

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|--|------------|
| 0 | <input checked="" type="checkbox"/> SB-5C-0.5 <input checked="" type="checkbox"/> SB-5C-2 | | | 2.0 | SILT (ML) trace coarse sand, brown (10YR 3/3), soft, moist | |
| | | | | | Bottom of borehole at 2.0 feet. | |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SB-5D

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|--|----------------|----------------|----------------|--|---------------------------------|
| 0 | <input checked="" type="checkbox"/> SB-5D-0.5 <input checked="" type="checkbox"/> SB-5D-2 | | | 2.0 | SILT (ML) trace coarse sand, brown (10YR 3/3), soft, moist | Bottom of borehole at 2.0 feet. |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SV-1

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|-----------------------|----------------|----------------|----------------|---|------------|
| 0 | | | | | CLAY (CL) dark gray (2.5Y 4/1) medium stiff, moist, medium plasticity | |
| 3.0 | | | | | SILT (ML) light yellowish brown (2.5YR 6/4) medium stiff, moist | |
| 5 | SV-1-5 | | | | Bottom of borehole at 5.5 feet. | |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SV-2

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|-----------------------|----------------|----------------|----------------|---|------------|
| 0 | | | | | CLAY (CL) very dark grayish brown (2.5Y 3/2) medium stiff, moist, medium plasticity | |
| 3.0 | | | | | SILT (ML) light yellowish brown (2.5Y 6/4) medium stiff, moist | |
| 5.5 | SV-2-5 | | | | Bottom of borehole at 5.5 feet. | |



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SV-3

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC

PROJECT NUMBER 387046

DATE STARTED 5/25/18 COMPLETED 5/25/18

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY T. Yerkes CHECKED BY J. Day

NOTES _____

PROJECT NAME Wolf Enterprises II, LLC

PROJECT LOCATION Santa Rosa, California

GROUND ELEVATION _____ HOLE SIZE 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | GRAPHIC LOG | MATERIAL DESCRIPTION | COMPLETION |
|---------------|-----------------------|----------------|----------------|-------------------|--|------------|
| 0 | | | | | CLAYEY SILT (ML) dark grayish brown (10YR 4/2) medium stiff, moist, low plasticity | |
| 5 | SV-3-5 | | | 3.0 4.0 5.5 | CLAY (CL) dark olive brown (2.5Y 3/3) medium stiff, moist, medium plasticity SILT (ML) light yellowish brown (2.5Y 6/4) medium stiff, moist | |

Bottom of borehole at 5.5 feet.



AEI Consultants
3880 S. Bascom Avenue, Suite 109
San Jose, California 95124
Telephone: 408-559-7600
Fax: 408-559-7600

BORING NUMBER SV-4

PAGE 1 OF 1

CLIENT Wolf Enterprises II, LLC
PROJECT NUMBER 387046
DATE STARTED 5/25/18 **COMPLETED** 5/25/18
DRILLING CONTRACTOR Environmental Control Associates, Inc.
DRILLING METHOD Direct Push
LOGGED BY T. Yerkes **CHECKED BY** J. Day
NOTES _____

PROJECT NAME Wolf Enterprises II, LLC
PROJECT LOCATION Santa Rosa, California
GROUND ELEVATION _____ **HOLE SIZE** 2.25 inches
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS | PID DATA (ppm) | MATERIAL DESCRIPTION | | COMPLETION |
|---------------|-----------------------|----------------|----------------|----------------------|---|------------|
| | | | | GRAPHIC LOG | | |
| 0 | | | | | CLAY (CL) very dark grayish brown (2.5Y 3/2) medium stiff, moist, medium plasticity | |
| 3.0 | | | | | SILT (ML) light yellowish brown (2.5Y 6/4) medium stiff, moist | |
| 5 | SV-4-5 | | | | | |

Bottom of borehole at 5.5 feet.

APPENDIX C

LABORATORY ANALYTICAL DATA



AEI Consultants

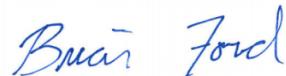
June 05, 2018

AEI Consultants - CA

Sample Delivery Group: L997491
Samples Received: 05/26/2018
Project Number: 387046
Description: Yolanda Ave.

Report To: Jacqueline Day
2500 Camino Diablo
Walnut Creek, CA 94597

Entire Report Reviewed By:



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.

TABLE OF CONTENTS

ONE LAB. NATIONWIDE.



| | | |
|------------------------------------|----|-----------------|
| Cp: Cover Page | 1 | ¹ Cp |
| Tc: Table of Contents | 2 | ² Tc |
| Ss: Sample Summary | 3 | ³ Ss |
| Cn: Case Narrative | 5 | ⁴ Cn |
| Sr: Sample Results | 6 | ⁵ Sr |
| COMP-1 L997491-01 | 6 | ⁶ Qc |
| COMP-2 L997491-02 | 7 | ⁷ Gl |
| COMP-3 L997491-03 | 8 | ⁸ Al |
| COMP-4 L997491-04 | 9 | |
| COMP-5 L997491-05 | 10 | ⁹ Sc |
| SB-1D 0.5 L997491-06 | 11 | |
| SB-2D 0.5 L997491-07 | 12 | |
| SB-3D 0.5 L997491-08 | 13 | |
| SB-4D 0.5 L997491-09 | 14 | |
| SB-5D 0.5 L997491-10 | 15 | |
| Qc: Quality Control Summary | 16 | |
| Total Solids by Method 2540 G-2011 | 16 | |
| Metals (ICP) by Method 6010B | 18 | |
| Pesticides (GC) by Method 8081 | 19 | |
| Gl: Glossary of Terms | 21 | |
| Al: Accreditations & Locations | 22 | |
| Sc: Sample Chain of Custody | 23 | |

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



| | | | | | |
|----------------------------|------------------------------------|-----------|-------------------------------|---------------------------------------|--------------------------------------|
| | | | Collected by Tamara Yerkes | Collected date/time 05/25/18 00:00 | Received date/time 05/26/18 08:45 |
| COMP-1 L997491-01 Solid | Method | Batch | Dilution | Preparation date/time | Analysis date/time |
| | Total Solids by Method 2540 G-2011 | WG1118298 | 1 | 06/01/18 10:44 | 06/01/18 10:59 |
| | Pesticides (GC) by Method 8081 | WG1118336 | 1 | 06/02/18 14:22 | 06/03/18 18:12 |
| COMP-2 L997491-02 Solid | Method | Batch | Dilution | Preparation date/time | Analysis date/time |
| | Total Solids by Method 2540 G-2011 | WG1118298 | 1 | 06/01/18 10:44 | 06/01/18 10:59 |
| | Pesticides (GC) by Method 8081 | WG1118336 | 1 | 06/02/18 14:22 | 06/03/18 17:43 |
| COMP-3 L997491-03 Solid | Method | Batch | Dilution | Preparation date/time | Analysis date/time |
| | Total Solids by Method 2540 G-2011 | WG1118298 | 1 | 06/01/18 10:44 | 06/01/18 10:59 |
| | Pesticides (GC) by Method 8081 | WG1118336 | 1 | 06/02/18 14:22 | 06/03/18 15:45 |
| COMP-4 L997491-04 Solid | Method | Batch | Dilution | Preparation date/time | Analysis date/time |
| | Total Solids by Method 2540 G-2011 | WG1118298 | 1 | 06/01/18 10:44 | 06/01/18 10:59 |
| | Pesticides (GC) by Method 8081 | WG1118336 | 1 | 06/02/18 14:22 | 06/03/18 18:27 |
| COMP-5 L997491-05 Solid | Method | Batch | Dilution | Preparation date/time | Analysis date/time |
| | Total Solids by Method 2540 G-2011 | WG1118299 | 1 | 06/01/18 08:54 | 06/01/18 09:08 |
| | Pesticides (GC) by Method 8081 | WG1118336 | 1 | 06/02/18 14:22 | 06/03/18 16:44 |
| | Pesticides (GC) by Method 8081 | WG1118336 | 2 | 06/02/18 14:22 | 06/05/18 14:18 |
| SB-1D 0.5 L997491-06 Solid | Method | Batch | Dilution | Preparation date/time | Analysis date/time |
| | Total Solids by Method 2540 G-2011 | WG1118299 | 1 | 06/01/18 08:54 | 06/01/18 09:08 |
| | Metals (ICP) by Method 6010B | WG1117905 | 1 | 05/31/18 12:59 | 06/01/18 14:54 |
| SB-2D 0.5 L997491-07 Solid | Method | Batch | Dilution | Preparation date/time | Analysis date/time |
| | Total Solids by Method 2540 G-2011 | WG1118299 | 1 | 06/01/18 08:54 | 06/01/18 09:08 |
| | Metals (ICP) by Method 6010B | WG1117905 | 1 | 05/31/18 12:59 | 06/01/18 14:57 |

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

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



| SB-3D 0.5 L997491-08 Solid | | Collected by Tamara Yerkes | Collected date/time 05/25/18 09:31 | Received date/time 05/26/18 08:45 | |
|------------------------------------|-----------|-------------------------------|---------------------------------------|--------------------------------------|---------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
| Total Solids by Method 2540 G-2011 | WG1118299 | 1 | 06/01/18 08:54 | 06/01/18 09:08 | KS |
| Metals (ICP) by Method 6010B | WG1117905 | 1 | 05/31/18 12:59 | 06/01/18 15:07 | TRB |
| SB-4D 0.5 L997491-09 Solid | | Collected by Tamara Yerkes | Collected date/time 05/25/18 11:12 | Received date/time 05/26/18 08:45 | |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
| Total Solids by Method 2540 G-2011 | WG1118299 | 1 | 06/01/18 08:54 | 06/01/18 09:08 | KS |
| Metals (ICP) by Method 6010B | WG1117905 | 1 | 05/31/18 12:59 | 06/01/18 15:10 | TRB |
| SB-5D 0.5 L997491-10 Solid | | Collected by Tamara Yerkes | Collected date/time 05/25/18 11:46 | Received date/time 05/26/18 08:45 | |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
| Total Solids by Method 2540 G-2011 | WG1118299 | 1 | 06/01/18 08:54 | 06/01/18 09:08 | KS |
| Metals (ICP) by Method 6010B | WG1117905 | 1 | 05/31/18 12:59 | 06/01/18 15:14 | TRB |

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



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All 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

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 92.6 | | 1 | 06/01/2018 10:59 | WG1118298 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Pesticides (GC) by Method 8081

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|--------------------------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Aldrin | U | | 0.000252 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Alpha BHC | U | | 0.000208 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Beta BHC | U | | 0.000327 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Delta BHC | U | | 0.000163 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Gamma BHC | U | | 0.000265 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| 4,4-DDD | U | | 0.000177 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| 4,4-DDE | U | | 0.000178 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| 4,4-DDT | 0.00116 | J | 0.000287 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Dieldrin | U | | 0.0000961 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Endosulfan I | U | | 0.000231 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Endosulfan II | U | | 0.000248 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Endosulfan sulfate | U | | 0.000184 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Endrin | U | | 0.000237 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Endrin aldehyde | U | | 0.000261 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Endrin ketone | U | | 0.000172 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Heptachlor | U | | 0.000109 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Heptachlor epoxide | U | | 0.000408 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Hexachlorobenzene | U | | 0.000242 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Methoxychlor | U | | 0.000286 | 0.0216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Chlordane | U | | 0.0421 | 0.216 | 1 | 06/03/2018 18:12 | WG1118336 |
| Toxaphene | U | | 0.0389 | 0.432 | 1 | 06/03/2018 18:12 | WG1118336 |
| (S) Decachlorobiphenyl | 61.7 | | | 10.0-148 | | 06/03/2018 18:12 | WG1118336 |
| (S) Tetrachloro-m-xylene | 71.4 | | | 21.0-146 | | 06/03/2018 18:12 | WG1118336 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 91.3 | | 1 | 06/01/2018 10:59 | WG1118298 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Pesticides (GC) by Method 8081

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|--------------------------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Aldrin | U | | 0.000255 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Alpha BHC | U | | 0.000211 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Beta BHC | U | | 0.000332 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Delta BHC | U | | 0.000165 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Gamma BHC | U | | 0.000268 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| 4,4-DDD | U | | 0.000180 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| 4,4-DDE | U | | 0.000181 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| 4,4-DDT | U | | 0.000291 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Dieldrin | U | | 0.0000975 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Endosulfan I | U | | 0.000234 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Endosulfan II | U | | 0.000252 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Endosulfan sulfate | U | | 0.000186 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Endrin | U | | 0.000240 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Endrin aldehyde | U | | 0.000265 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Endrin ketone | U | | 0.000174 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Heptachlor | U | | 0.000111 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Heptachlor epoxide | U | | 0.000414 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Hexachlorobenzene | U | | 0.000245 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Methoxychlor | U | | 0.000290 | 0.0219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Chlordane | U | | 0.0427 | 0.219 | 1 | 06/03/2018 17:43 | WG1118336 |
| Toxaphene | U | | 0.0394 | 0.438 | 1 | 06/03/2018 17:43 | WG1118336 |
| (S) Decachlorobiphenyl | 64.1 | | | 10.0-148 | | 06/03/2018 17:43 | WG1118336 |
| (S) Tetrachloro-m-xylene | 73.6 | | | 21.0-146 | | 06/03/2018 17:43 | WG1118336 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 89.8 | | 1 | 06/01/2018 10:59 | WG1118298 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Pesticides (GC) by Method 8081

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|--------------------------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Aldrin | U | | 0.000260 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Alpha BHC | U | | 0.000215 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Beta BHC | U | | 0.000338 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Delta BHC | U | | 0.000168 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Gamma BHC | U | | 0.000273 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| 4,4-DDD | U | | 0.000183 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| 4,4-DDE | U | | 0.000184 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| 4,4-DDT | U | | 0.000296 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Dieldrin | U | | 0.0000991 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Endosulfan I | U | | 0.000238 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Endosulfan II | U | | 0.000256 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Endosulfan sulfate | U | | 0.000189 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Endrin | U | | 0.000244 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Endrin aldehyde | U | | 0.000270 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Endrin ketone | U | | 0.000177 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Heptachlor | U | | 0.000113 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Heptachlor epoxide | U | | 0.000421 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Hexachlorobenzene | U | | 0.000250 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Methoxychlor | U | | 0.000295 | 0.0223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Chlordane | U | | 0.0434 | 0.223 | 1 | 06/03/2018 15:45 | WG1118336 |
| Toxaphene | U | | 0.0401 | 0.446 | 1 | 06/03/2018 15:45 | WG1118336 |
| (S) Decachlorobiphenyl | 69.8 | | | 10.0-148 | | 06/03/2018 15:45 | WG1118336 |
| (S) Tetrachloro-m-xylene | 70.3 | | | 21.0-146 | | 06/03/2018 15:45 | WG1118336 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 92.3 | | 1 | 06/01/2018 10:59 | WG1118298 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Pesticides (GC) by Method 8081

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|--------------------------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Aldrin | U | | 0.000253 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Alpha BHC | U | | 0.000209 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Beta BHC | U | | 0.000328 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Delta BHC | U | | 0.000164 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Gamma BHC | U | | 0.000266 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| 4,4-DDD | U | | 0.000178 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| 4,4-DDE | 0.00125 | J P | 0.000179 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| 4,4-DDT | 0.00153 | J | 0.000288 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Dieldrin | U | | 0.0000965 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Endosulfan I | U | | 0.000232 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Endosulfan II | U | | 0.000249 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Endosulfan sulfate | U | | 0.000184 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Endrin | U | | 0.000237 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Endrin aldehyde | U | | 0.000262 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Endrin ketone | U | | 0.000172 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Heptachlor | U | | 0.000109 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Heptachlor epoxide | U | | 0.000410 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Hexachlorobenzene | U | | 0.000243 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Methoxychlor | U | | 0.000287 | 0.0217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Chlordane | U | | 0.0423 | 0.217 | 1 | 06/03/2018 18:27 | WG1118336 |
| Toxaphene | U | | 0.0390 | 0.434 | 1 | 06/03/2018 18:27 | WG1118336 |
| (S) Decachlorobiphenyl | 70.9 | | | 10.0-148 | | 06/03/2018 18:27 | WG1118336 |
| (S) Tetrachloro-m-xylene | 79.5 | | | 21.0-146 | | 06/03/2018 18:27 | WG1118336 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 93.6 | | 1 | 06/01/2018 09:08 | WG1118299 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Pesticides (GC) by Method 8081

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|--------------------------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Aldrin | U | | 0.000249 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Alpha BHC | U | | 0.000206 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Beta BHC | U | | 0.000324 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Delta BHC | U | | 0.000161 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Gamma BHC | U | | 0.000262 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| 4,4-DDD | U | | 0.000175 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| 4,4-DDE | U | | 0.000176 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| 4,4-DDT | 0.0104 | J | 0.000284 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Dieldrin | U | | 0.0000951 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Endosulfan I | U | | 0.000229 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Endosulfan II | U | | 0.000246 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Endosulfan sulfate | U | | 0.000182 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Endrin | U | | 0.000234 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Endrin aldehyde | U | | 0.000258 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Endrin ketone | U | | 0.000170 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Heptachlor | U | | 0.000108 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Heptachlor epoxide | U | | 0.000404 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Hexachlorobenzene | U | | 0.000239 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Methoxychlor | U | | 0.000283 | 0.0214 | 1 | 06/03/2018 16:44 | WG1118336 |
| Chlordane | 1.79 | | 0.0833 | 0.427 | 2 | 06/05/2018 14:18 | WG1118336 |
| Toxaphene | U | | 0.0385 | 0.427 | 1 | 06/03/2018 16:44 | WG1118336 |
| (S) Decachlorobiphenyl | 109 | | | 10.0-148 | | 06/03/2018 16:44 | WG1118336 |
| (S) Decachlorobiphenyl | 89.8 | | | 10.0-148 | | 06/05/2018 14:18 | WG1118336 |
| (S) Tetrachloro-m-xylene | 94.4 | | | 21.0-146 | | 06/03/2018 16:44 | WG1118336 |
| (S) Tetrachloro-m-xylene | 66.8 | | | 21.0-146 | | 06/05/2018 14:18 | WG1118336 |

SB-1D 0.5

Collected date/time: 05/25/18 09:05

SAMPLE RESULTS - 06

L997491

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 88.5 | | 1 | 06/01/2018 09:08 | WG1118299 |

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Metals (ICP) by Method 6010B

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|---------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Arsenic | 1.97 | J | 0.734 | 2.26 | 1 | 06/01/2018 14:54 | WG1117905 |
| Lead | 6.83 | | 0.215 | 0.565 | 1 | 06/01/2018 14:54 | WG1117905 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 94.5 | | 1 | 06/01/2018 09:08 | WG1118299 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Metals (ICP) by Method 6010B

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|---------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Arsenic | 1.26 | J | 0.688 | 2.12 | 1 | 06/01/2018 14:57 | WG1117905 |
| Lead | 18.2 | | 0.201 | 0.529 | 1 | 06/01/2018 14:57 | WG1117905 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 84.3 | | 1 | 06/01/2018 09:08 | WG1118299 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Metals (ICP) by Method 6010B

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|---------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Arsenic | 5.04 | | 0.771 | 2.37 | 1 | 06/01/2018 15:07 | WG1117905 |
| Lead | 6.97 | | 0.225 | 0.593 | 1 | 06/01/2018 15:07 | WG1117905 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 91.6 | | 1 | 06/01/2018 09:08 | WG1118299 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Metals (ICP) by Method 6010B

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|---------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Arsenic | 6.43 | | 0.709 | 2.18 | 1 | 06/01/2018 15:10 | WG1117905 |
| Lead | 38.2 | | 0.207 | 0.546 | 1 | 06/01/2018 15:10 | WG1117905 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 93.1 | | 1 | 06/01/2018 09:08 | WG1118299 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Metals (ICP) by Method 6010B

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|---------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Arsenic | 2.95 | | 0.698 | 2.15 | 1 | 06/01/2018 15:14 | WG1117905 |
| Lead | 37.3 | | 0.204 | 0.537 | 1 | 06/01/2018 15:14 | WG1117905 |

L997491-01,02,03,04

Method Blank (MB)

(MB) R3315079-1 06/01/18 10:59

| Analyte | MB Result % | <u>MB Qualifier</u> | MB MDL % | MB RDL % |
|--------------|----------------|---------------------|-------------|-------------|
| Total Solids | 0.00200 | | | |

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L997354-01 Original Sample (OS) • Duplicate (DUP)

(OS) L997354-01 06/01/18 10:59 • (DUP) R3315079-3 06/01/18 10:59

| Analyte | Original Result % | DUP Result % | Dilution % | DUP RPD % | <u>DUP Qualifier</u> | DUP RPD Limits % |
|--------------|----------------------|-----------------|---------------|--------------|----------------------|------------------------|
| Total Solids | 88.3 | 86.9 | 1 | 1.60 | | 5 |

Laboratory Control Sample (LCS)

(LCS) R3315079-2 06/01/18 10:59

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

⁷Gl⁸Al⁹Sc

[L997491-05,06,07,08,09,10](#)

Method Blank (MB)

(MB) R3315064-1 06/01/18 09:08

| Analyst | MB Result % | <u>MB Qualifier</u> | MB MDL % | MB RDL % |
|--------------|----------------|---------------------|-------------|-------------|
| Total Solids | 0.00100 | | | |

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L997491-07 Original Sample (OS) • Duplicate (DUP)

(OS) L997491-07 06/01/18 09:08 • (DUP) R3315064-3 06/01/18 09:08

| Analyst | Original Result % | DUP Result % | Dilution % | DUP RPD % | <u>DUP Qualifier</u> | DUP RPD Limits % |
|--------------|----------------------|-----------------|---------------|--------------|----------------------|------------------------|
| Total Solids | 94.5 | 94.5 | 1 | 0.00191 | | 5 |

Laboratory Control Sample (LCS)

(LCS) R3315064-2 06/01/18 09:08

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

⁹Sc



Method Blank (MB)

(MB) R3314764-1 06/01/18 14:28

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

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

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

(LCS) R3314764-2 06/01/18 14:31 • (LCSD) R3314764-3 06/01/18 14:34

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD | RPD Limits |
|---------|-----------------------|---------------------|----------------------|---------------|----------------|-------------|----------------------|-----------------------|-------|------------|
| Arsenic | 100 | 97.1 | 96.1 | 97.1 | 96.1 | 80.0-120 | | | 0.972 | 20 |
| Lead | 100 | 101 | 100 | 101 | 100 | 80.0-120 | | | 0.642 | 20 |

L997787-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L997787-01 06/01/18 14:37 • (MS) R3314764-6 06/01/18 14:47 • (MSD) R3314764-7 06/01/18 14:50

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits | <u>MS Qualifier</u> | <u>MSD Qualifier</u> | RPD | RPD Limits |
|---------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|-------------|---------------------|----------------------|------|------------|
| Arsenic | 100 | 7.55 | 94.5 | 98.3 | 87.0 | 90.7 | 1 | 75.0-125 | | | 3.91 | 20 |
| Lead | 100 | 9.32 | 109 | 114 | 99.3 | 104 | 1 | 75.0-125 | | | 4.56 | 20 |



L997491-01,02,03,04,05

Method Blank (MB)

(MB) R3315199-3 06/03/18 12:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg | | | | | | | |
|--------------------------|--------------------|--------------|-----------------|-----------------|--|--|--|--|--|--|--|
| Aldrin | U | | 0.000233 | 0.0200 | | | | | | | |
| Alpha BHC | U | | 0.000193 | 0.0200 | | | | | | | |
| Beta BHC | U | | 0.000303 | 0.0200 | | | | | | | |
| Delta BHC | U | | 0.000151 | 0.0200 | | | | | | | |
| Gamma BHC | U | | 0.000245 | 0.0200 | | | | | | | |
| 4,4-DDD | U | | 0.000164 | 0.0200 | | | | | | | |
| 4,4-DDE | U | | 0.000165 | 0.0200 | | | | | | | |
| 4,4-DDT | U | | 0.000266 | 0.0200 | | | | | | | |
| Dieldrin | U | | 0.0000890 | 0.00200 | | | | | | | |
| Endosulfan I | U | | 0.000214 | 0.0200 | | | | | | | |
| Endosulfan II | U | | 0.000230 | 0.0200 | | | | | | | |
| Endosulfan sulfate | U | | 0.000170 | 0.0200 | | | | | | | |
| Endrin | U | | 0.000219 | 0.0200 | | | | | | | |
| Endrin aldehyde | U | | 0.000242 | 0.0200 | | | | | | | |
| Endrin ketone | U | | 0.000159 | 0.0200 | | | | | | | |
| Heptachlor | U | | 0.000101 | 0.0200 | | | | | | | |
| Heptachlor epoxide | U | | 0.000378 | 0.0200 | | | | | | | |
| Hexachlorobenzene | U | | 0.000224 | 0.0200 | | | | | | | |
| Methoxychlor | U | | 0.000265 | 0.0200 | | | | | | | |
| Chlordane | U | | 0.0390 | 0.200 | | | | | | | |
| Toxaphene | U | | 0.0360 | 0.400 | | | | | | | |
| (S) Decachlorobiphenyl | 63.4 | | | 10.0-148 | | | | | | | |
| (S) Tetrachloro-m-xylene | 79.1 | | | 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) R3315199-1 06/03/18 12:05 • (LCSD) R3315199-2 06/03/18 12:17

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|--------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|-------|------------|
| Aldrin | 0.0667 | 0.0384 | 0.0390 | 57.6 | 58.5 | 55.0-137 | | | 1.50 | 29 |
| Alpha BHC | 0.0667 | 0.0393 | 0.0400 | 59.0 | 60.0 | 55.0-136 | | | 1.78 | 28 |
| Beta BHC | 0.0667 | 0.0385 | 0.0397 | 57.8 | 59.5 | 53.0-133 | | | 3.05 | 28 |
| Delta BHC | 0.0667 | 0.0411 | 0.0422 | 61.6 | 63.3 | 53.0-139 | | | 2.69 | 29 |
| Gamma BHC | 0.0667 | 0.0423 | 0.0436 | 63.4 | 65.3 | 54.0-136 | | | 2.96 | 29 |
| 4,4-DDD | 0.0667 | 0.0403 | 0.0408 | 60.5 | 61.1 | 51.0-141 | | | 1.06 | 29 |
| 4,4-DDE | 0.0667 | 0.0382 | 0.0384 | 57.2 | 57.6 | 53.0-142 | | | 0.585 | 30 |
| 4,4-DDT | 0.0667 | 0.0464 | 0.0471 | 69.6 | 70.6 | 47.0-143 | | | 1.42 | 30 |
| Dieldrin | 0.0667 | 0.0397 | 0.0401 | 59.6 | 60.1 | 54.0-141 | | | 0.947 | 29 |
| Endosulfan I | 0.0667 | 0.0381 | 0.0384 | 57.1 | 57.6 | 54.0-141 | | | 0.816 | 29 |

ACCOUNT:

AEI Consultants - CA

PROJECT:

387046

SDG:

L997491

DATE/TIME:

06/05/18 16:37

PAGE:

19 of 29



L997491-01,02,03,04,05

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

(LCS) R3315199-1 06/03/18 12:05 • (LCSD) R3315199-2 06/03/18 12:17

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|--------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|-------|------------|
| Endosulfan II | 0.0667 | 0.0371 | 0.0375 | 55.6 | 56.2 | 53.0-140 | | | 1.07 | 28 |
| Endosulfan sulfate | 0.0667 | 0.0381 | 0.0386 | 57.2 | 57.9 | 52.0-141 | | | 1.20 | 29 |
| Endrin | 0.0667 | 0.0418 | 0.0420 | 62.6 | 62.9 | 52.0-137 | | | 0.475 | 29 |
| Endrin aldehyde | 0.0667 | 0.0337 | 0.0348 | 50.5 | 52.2 | 30.0-127 | | | 3.40 | 31 |
| Endrin ketone | 0.0667 | 0.0395 | 0.0402 | 59.3 | 60.3 | 51.0-139 | | | 1.77 | 28 |
| Heptachlor | 0.0667 | 0.0463 | 0.0471 | 69.4 | 70.6 | 53.0-144 | | | 1.82 | 29 |
| Heptachlor epoxide | 0.0667 | 0.0401 | 0.0407 | 60.1 | 60.9 | 54.0-137 | | | 1.41 | 28 |
| Hexachlorobenzene | 0.0667 | 0.0401 | 0.0407 | 60.1 | 61.0 | 50.0-135 | | | 1.36 | 28 |
| Methoxychlor | 0.0667 | 0.0447 | 0.0451 | 67.0 | 67.7 | 49.0-145 | | | 1.07 | 29 |
| (S) Decachlorobiphenyl | | | | 49.9 | 57.9 | 10.0-148 | | | | |
| (S) Tetrachloro-m-xylene | | | | 58.9 | 68.8 | 21.0-146 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

L997301-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L997301-01 06/03/18 16:59 • (MS) R3315443-2 06/03/18 17:14 • (MSD) R3315443-3 06/03/18 17:28

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|--------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|------|------------|
| Aldrin | 0.0773 | ND | 0.0433 | 0.0463 | 56.1 | 59.9 | 1 | 19.0-152 | | | 6.60 | 24 |
| Alpha BHC | 0.0773 | ND | 0.0443 | 0.0484 | 57.3 | 62.7 | 1 | 39.0-152 | | | 8.91 | 21 |
| Beta BHC | 0.0773 | ND | 0.0445 | 0.0475 | 57.6 | 61.4 | 1 | 38.0-150 | | | 6.35 | 20 |
| Delta BHC | 0.0773 | ND | 0.0410 | 0.0443 | 53.0 | 57.3 | 1 | 34.0-155 | | | 7.77 | 21 |
| Gamma BHC | 0.0773 | ND | 0.0433 | 0.0466 | 56.0 | 60.4 | 1 | 38.0-153 | | | 7.50 | 21 |
| 4,4-DDD | 0.0773 | ND | 0.0433 | 0.0446 | 56.1 | 57.7 | 1 | 22.0-160 | | | 2.82 | 25 |
| 4,4-DDE | 0.0773 | ND | 0.0487 | 0.0493 | 56.9 | 57.8 | 1 | 10.0-160 | | | 1.34 | 27 |
| 4,4-DDT | 0.0773 | ND | 0.0520 | 0.0499 | 60.5 | 57.9 | 1 | 10.0-160 | | | 3.96 | 28 |
| Dieldrin | 0.0773 | ND | 0.0488 | 0.0482 | 63.1 | 62.3 | 1 | 30.0-158 | | | 1.22 | 25 |
| Endosulfan I | 0.0773 | ND | 0.0428 | 0.0447 | 55.4 | 57.8 | 1 | 31.0-155 | | | 4.22 | 25 |
| Endosulfan II | 0.0773 | ND | 0.0418 | 0.0427 | 54.1 | 55.2 | 1 | 32.0-156 | | | 2.11 | 25 |
| Endosulfan sulfate | 0.0773 | ND | 0.0404 | 0.0422 | 52.3 | 54.7 | 1 | 31.0-158 | | | 4.52 | 24 |
| Endrin | 0.0773 | ND | 0.0452 | 0.0472 | 58.4 | 61.1 | 1 | 30.0-149 | | | 4.51 | 25 |
| Endrin aldehyde | 0.0773 | ND | 0.0391 | 0.0397 | 50.6 | 51.4 | 1 | 20.0-157 | | | 1.55 | 26 |
| Endrin ketone | 0.0773 | ND | 0.0428 | 0.0446 | 55.4 | 57.7 | 1 | 32.0-154 | | | 3.95 | 23 |
| Heptachlor | 0.0773 | ND | 0.0457 | 0.0497 | 59.2 | 64.3 | 1 | 18.0-160 | | | 8.37 | 23 |
| Heptachlor epoxide | 0.0773 | ND | 0.0448 | 0.0462 | 57.9 | 59.8 | 1 | 31.0-154 | | | 3.21 | 25 |
| Hexachlorobenzene | 0.0773 | ND | 0.0422 | 0.0459 | 54.6 | 59.4 | 1 | 26.0-146 | | | 8.31 | 21 |
| Methoxychlor | 0.0773 | ND | 0.0518 | 0.0537 | 67.1 | 69.5 | 1 | 10.0-160 | | | 3.55 | 27 |
| (S) Decachlorobiphenyl | | | | | 62.4 | 66.8 | | 10.0-148 | | | | |
| (S) Tetrachloro-m-xylene | | | | | 59.4 | 69.8 | | 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]. | ¹ Cp |
| MDL | Method Detection Limit. | ² Tc |
| MDL (dry) | Method Detection Limit. | ³ Ss |
| RDL | Reported Detection Limit. | ⁴ Cn |
| RDL (dry) | Reported Detection Limit. | ⁵ Sr |
| Rec. | Recovery. | ⁶ Qc |
| RPD | Relative Percent Difference. | ⁷ GI |
| SDG | Sample Delivery Group. | ⁸ AI |
| (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. | ⁹ SC |
| U | Not detected at the Reporting Limit (or MDL where applicable). | |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. | |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. | |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. | |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. | |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. | |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. | |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. | |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. | |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. | |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. | |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. | |

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



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 |
| Alaska | 17-026 |
| Arizona | AZ0612 |
| Arkansas | 88-0469 |
| California | 2932 |
| Colorado | TN00003 |
| Connecticut | PH-0197 |
| Florida | E87487 |
| Georgia | NELAP |
| Georgia ¹ | 923 |
| Idaho | TN00003 |
| Illinois | 200008 |
| Indiana | C-TN-01 |
| Iowa | 364 |
| Kansas | E-10277 |
| Kentucky ¹⁶ | 90010 |
| Kentucky ² | 16 |
| Louisiana | AI30792 |
| Louisiana ¹ | LA180010 |
| Maine | TN0002 |
| Maryland | 324 |
| Massachusetts | M-TN003 |
| Michigan | 9958 |
| Minnesota | 047-999-395 |
| Mississippi | TN00003 |
| Missouri | 340 |
| Montana | CERT0086 |

| | |
|-----------------------------|-------------------|
| Nebraska | NE-OS-15-05 |
| Nevada | TN-03-2002-34 |
| New Hampshire | 2975 |
| New Jersey-NELAP | TN002 |
| New Mexico ¹ | n/a |
| New York | 11742 |
| North Carolina | Env375 |
| North Carolina ¹ | DW21704 |
| North Carolina ³ | 41 |
| North Dakota | R-140 |
| Ohio-VAP | CL0069 |
| Oklahoma | 9915 |
| Oregon | TN200002 |
| Pennsylvania | 68-02979 |
| Rhode Island | LA000356 |
| South Carolina | 84004 |
| South Dakota | n/a |
| Tennessee ¹⁴ | 2006 |
| Texas | T 104704245-17-14 |
| Texas ⁵ | LAB0152 |
| Utah | TN00003 |
| Vermont | VT2006 |
| Virginia | 460132 |
| Washington | C847 |
| West Virginia | 233 |
| Wisconsin | 9980939910 |
| Wyoming | A2LA |

Third Party Federal Accreditations

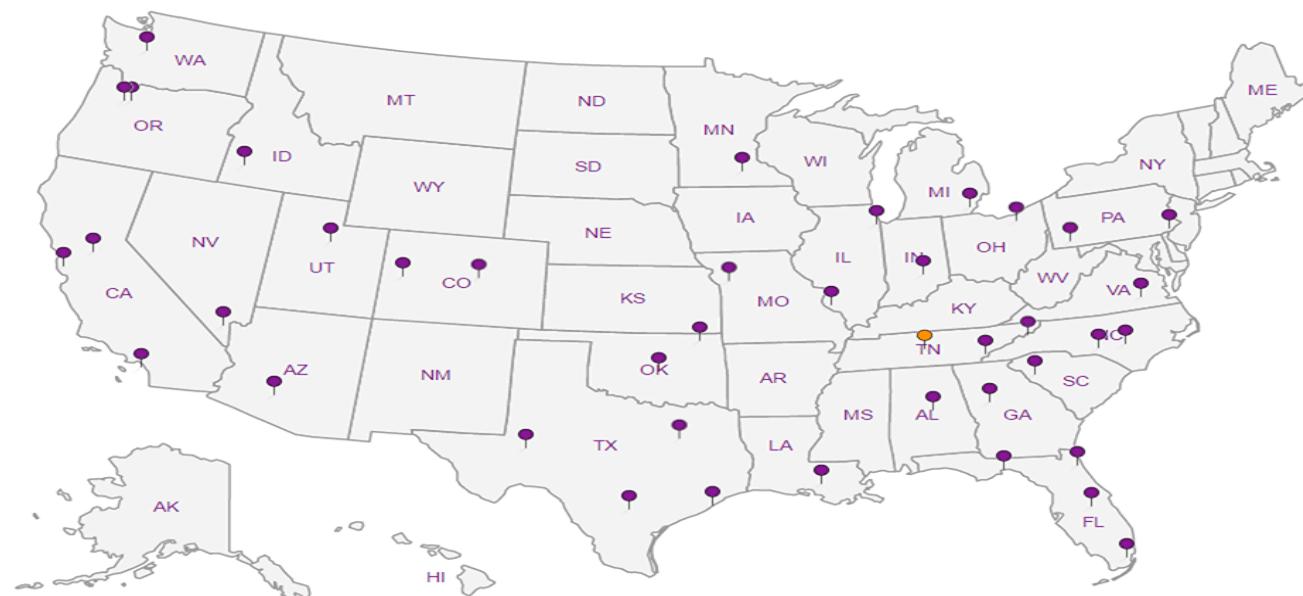
| | |
|-------------------------------|---------|
| A2LA – ISO 17025 | 1461.01 |
| A2LA – ISO 17025 ⁵ | 1461.02 |
| Canada | 1461.01 |
| EPA-Crypto | TN00003 |

| | |
|--------------------|---------------|
| AIHA-LAP,LLC EMLAP | 100789 |
| DOD | 1461.01 |
| USDA | P330-15-00234 |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ 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.



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

| | | | | | | | | | | | | | |
|--|--|---|--|--------------|-------------------------------------|---|-------------------------------|----------------------|------------|-------------|--|--------------------------|---|
| AEI Consultants - CA 2500 Camino Diablo Walnut Creek, CA 94597 | | Billing Information: Accounts Payable - Jeremy Smith 2500 Camino Diablo Walnut Creek, CA 94597 | | Pres Chk | Analysis / Container / Preservative | | | | | | Chain of Custody | Page 1 of 5 | |
| Report to: Jacqueline Day | | Email To: jday@aeiconsultants.com, tworkor@aeiconsultants.com | | | | | | | | | | | 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 |
| Project Description: | | City/State Collected: | | | | | | | | | | L# 617313 977491 G161 | Table |
| Phone: 925-746-6000 Fax: | Client Project # 387046 | Lab Project # AEICONWCCA-387046 | | | | | | | | | | Acctnum: AEICONWCCA | |
| Collected by (print): <i>Tamara Yarber</i> | Site/Facility ID # | P.O. # 160638 | | | | | | | | | | Template: | |
| Collected by (signature): <i>[Signature]</i> | Rush? (Lab MUST Be Notified) Same Day _____ Five Day _____ Next Day _____ 5 Day (Rad Only) _____ Two Day _____ 10 Day (Rad Only) _____ Three Day _____ | Quote # | | | | | | | | | | Prelogin: | |
| Immediately Packed on Ice N Y X | | Date Results Needed | | No. of Cntrs | | | | | | | | TSR: | |
| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | | | | | | | PB: | |
| SB-1A | Comp | SS | 0.5 | 2/25/18 | 951 | / | X | | | | | Shipped Via: | |
| SB-1A | | SS | 1.5 2.0 | 2/25/18 | 853 | / | | | | | | Remarks | Sample (Rad Only) |
| SB-1B | Comp | SS | 0.5 | 2/25/18 | 900 | / | X | | | | | | -01 -01 |
| SB-1B | | SS | 1.5 2.0 | 2/25/18 | 901 | / | | | | | | | -02 -01 |
| SB-1C | Comp | SS | 0.5 | 2/25/18 | 825 | / | X | | | | | | Hold |
| SB-1C | | SS | 1.5 2.0 | 2/25/18 | 827 | / | | | | | | | -03 -01 |
| SB-1D | <i>(long/gray)</i> | SS | 0.5 | 2/25/18 | 905 | / | X | X | | | | | Hold |
| SB-1D | | SS | 1.5 2.0 | 2/25/18 | 908 | / | | | | | | | -04 -05 -01 -06 |
| SB-2A | Comp | SS | 0.5 | 2/25/18 | 1045 | / | X | | | | | | Hold |
| SB-2A | | SS | 1.5 2.0 | 2/25/18 | 1047 | / | | | | | | | -05 -02 |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____ | Remarks: Sample SB-1D composite for OCPs by EPA 8081A, discrete sample for arsenic and lead | | Samples returned via: UPS FedEx Courier _____ | | Tracking # | | pH _____ | Temp _____ | Flow _____ | Other _____ | Sample Receipt Checklist | | |
| Relinquished by : (Signature) <i>[Signature]</i> | Date: 5/25/18 | Time: 1531 | Received by: (Signature) | | | | Trip Blank Received: Yes / No | HCl / MeOH | | | COC Seal Present/Intact: Y N | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | | | | Temp: 3.7°C | Bottles Received: 44 | | | COC Signed/Accurate: Y N | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | | | | Date: 5/25/18 | Time: 0545 | | | If preservation required by Login: Date/Time | | |
| | | | | | | | | | | | 5-172 | | |
| | | | | | | | | | | | Conditions NCF / OK | | |

| | | | | | | | | |
|--|---|---|------------|--|-------------------------------------|---|--|--|
| AEI Consultants - CA 2500 Camino Diablo Walnut Creek, CA 94597 | | Billing Information: Accounts Payable - Jeremy Smith 2500 Camino Diablo Walnut Creek, CA 94597 | | Pres Chk | Analysis / Container / Preservative | | Chain of Custody Page ____ of ____ | |
| Report to: Jacqueline Day | | Email To: jday@aeiconsultants.com, twarkes@aeiconsultants.com | | | | |  13065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 L# 997313 997491 Table # Acctnum: AEICONWCCA Template: Prelogin: TSR: PB: Shipped Via: Remarks: Sample # (lab order) ✓ -06-07-02 Hold -07-19-02 Hold -02-07-08-09-10-09 Hold -09-11-03 Hold -10-12-03 Hold | |
| Project | | City/State Collected: | | | | | | |
| Phone: 925-746-6000 | Client Project # | Lab Project # | | | | | | |
| Fax: | 387046 | AEICONWCCA-387046 | | | | | | |
| Collected by (print): <i>Tamara Verles</i> | Site/Facility ID # | P.O. # | | | | | | |
| Collected by (signature): <i>Rush?</i> (Lab MUST Be Notified) | | 160638 | | | | | | |
| Immediately Packed on Ice N <input checked="" type="checkbox"/> | Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day <input type="checkbox"/> | Quote # | | Date Results Needed | No. of Cntrs | | | |
| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | | | |
| SB-2B | Comp | SS | 0.5 | 2/25/18 | 934 | / X | | |
| SB-2B | | SS | 1/2 | 2/25/18 | 935 | / | | |
| SB-2C | Comp | SS | 0.5 | 2/25/18 | 917 | / X | | |
| SB-2C | | SS | 1/2 | 2/25/18 | 918 | / | | |
| SB-2D | Comp/grab | SS | 0.5 | 2/25/18 | 919 | / X XX | | |
| SB-2D | | SS | 1/2 | 2/25/18 | 920 | / | | |
| SB-3A | Comp | SS | 0.5 | 2/25/18 | 1039 | / X | | |
| SB-3A | | SS | 1/2 | 2/25/18 | 1037 | / | | |
| SB-3B | Comp | SS | 0.5 | 2/25/18 | 1052 | / X | | |
| SB-3B | | SS | 1/2 | 2/25/18 | 1054 | / | | |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____ | Remarks: Sample SB-2D composite for OCPs by EPA 8081A, discrete sample for arsenic and lead | | | | | | | |
| Samples returned via: UPS FedEx Courier _____ | | | Tracking # | | | | | |
| Relinquished by: (Signature) <i>[Signature]</i> | | Date: 5/25/18 | Time: 153 | Received by: (Signature) | | Trip Blank Received: Yes / <input checked="" type="checkbox"/> HCl / MeOH TBR | pH _____ Temp _____ Flow _____ Other _____ | |
| Relinquished by: (Signature) | | Date: | Time: | Received by: (Signature) | | Temp: 3.7m °C Bottles Received: 44 | If preservation required by Login: Date/Time | |
| Relinquished by: (Signature) | | Date: | Time: | Received for lab by: (Signature) <i>Erin J.</i> | | Date: 5/26/18 Time: 0845 | 5-174 Condition: NCF / OK | |

| | | | | | | | | | | | | | | | |
|--|--|---|-------------------|---|-------------------------------------|------|--------------------|----------------------------|--|---|--|---|--|--------------|---------------------|
| AEI Consultants - CA 2500 Camino Diablo Walnut Creek, CA 94597 | | Billing Information: Accounts Payable - Jeremy Smith 2500 Camino Diablo Walnut Creek, CA 94597 | | Pres Chk | Analysis / Container / Preservative | | | | | | Chain of Custody | Page _____ of _____ | | | |
| Report to: Jacqueline Day | | Email To: jday@aeiconsultants.com, tucker@aeiconsultants.com | | | | | | | | | ESC LAB SCIENCES A Division of Bio-Rad | | | | |
| Project Description: | | City/State Collected: | | | | | | | | 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 | L # 497313997491 | | | | |
| Phone: 925-746-6000 Fax: | | Client Project # 387046 | | Lab Project # AEICONWCCA-387046 | | | | | | Table # | | | | | |
| Collected by (print): <i>Tamara Veres</i> | | Site/Facility ID # | | P.O. # 160638 | | | | | | Acctnum: AEICONWCCA | | | | | |
| Collected by (signature): <i>[Signature]</i> | | Rush? (Lab MUST Be Notified) | | Quote # | | | | | | Template: | | | | | |
| Immediately Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/> | | Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day <input type="checkbox"/> | | Date Results Needed | | | | | | Prelogin: | | | | | |
| Sample ID | | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | Lead by EPA 6010B | | | | | | TSR: | |
| SB-3C | | Comp | SS | 0.5 | 2/25/18 | 1106 | 1 | Arsenic by EPA 6010B | | | | | | PB: | |
| SB-3C | | | SS | 1102 | 2/25/18 | 1108 | 1 | | | | | | | Shipped Via: | |
| SB-3D | | Comp/gran | SS | 0.5 | 2/25/18 | 931 | 1 | OC Pesticides by EPA 8081A | | | | | | Remarks | Sample # (lab only) |
| SB-3D | | | SS | 1102 | 2/25/18 | 933 | 1 | | | | | | | <i>6307</i> | <i>12-19-15</i> |
| SB-4A | | Comp | SS | 0.5 | 2/25/18 | 1001 | 1 | Lead by EPA 6010B | | | | | | Hold | <i>-04-11-13-03</i> |
| SB-4A | | | SS | 1102 | 2/25/18 | 1003 | 1 | | | | | | | Hold | <i>-04-11-13-03</i> |
| SB-4B | | Comp | SS | 0.5 | 2/25/18 | 1005 | 1 | Arsenic by EPA 6010B | | | | | | Hold | <i>-04-11-13-03</i> |
| SB-4B | | | SS | 1102 | 2/25/18 | 1007 | 1 | | | | | | | Hold | <i>-04-11-13-03</i> |
| SB-4C | | Comp | SS | 0.5 | 2/25/18 | 1134 | 1 | OC Pesticides by EPA 8081A | | | | | | Hold | <i>-04-11-13-03</i> |
| SB-4C | | | SS | 1102 | 2/25/18 | 1136 | 1 | | | | | | | Hold | <i>-04-11-13-03</i> |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____ | | Remarks: Sample SB-3D composite for OCPs by EPA 8081A, discrete sample for arsenic and lead | | | | | | | | | | Sample Receipts Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | | |
| Relinquished by : (Signature) | | Date: 5/25/18 | Time: 1531 | Received by: (Signature) | | | | | | Trip Blank Received: Yes / No | | Flow _____ Other _____ | | | |
| Relinquished by : (Signature) | | Date: _____ | Time: _____ | Received by: (Signature) | | | | | | HCl / MeOH TBR | | If preservation required by Login: Date/Time | | | |
| Relinquished by : (Signature) | | Date: _____ | Time: _____ | Received for lab by: (Signature) | | | | | | Temp: 27.7 °C Bottles Received: 44 | | Hold: Condition: NCF / OK | | | |

| | | | | | | | | | | | | | | | |
|--|---|---|------------------------------------|----------------------------------|--------------------------------------|------|--|---|---|--|---|---|--------------|----------------------|--|
| AEI Consultants - CA 2500 Camino Diablo Walnut Creek, CA 94597 | | Billing Information: Accounts Payable - Jeremy Smith 2500 Camino Diablo Walnut Creek, CA 94597 | | Pres Chk | Analysis / Container / Preservative: | | | | | | Chain of Custody | Page ____ of ____ | | | |
| Report to: Jacqueline Day | | Email To: jday@aeiconsultants.com, turkene@aeiconsultants.com | | | | | | | | | | | | | |
| Project Description: | | | | City/State Collected: | | | | | | | 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 | | | | |
| Phone: 925-746-6000 Fax: | Client Project # 387046 | | Lab Project # AEICONWCCA-387046 | | | | | | | | L# 997313997491 | | | | |
| Collected by (print): Tamara Verkes | Site/Facility ID # | | P.O. # 160638 | | | | | | | | Table # | | | | |
| Collected by (signature): <i>[Signature]</i> | Rush? (Lab MUST Be Notified) | | Quote # | | | | | | | | Acctnum: AEICONWCCA | | | | |
| Immediately Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/> | Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day <input type="checkbox"/> | | Date Results Needed | | No. of Cntrs | | | | | | | Template: | | | |
| Sample ID | | Comp/Grab | Matrix * | Depth | Date | Time | | | | | | | Prelogin: | | |
| SB-4D | | Comp/Grab | SS | 0.5 | 2/25/18 | 1112 | / | X | X | X | | | TSR: | | |
| SB-4D | | | SS | 1152 | 2/25/18 | 1114 | / | | | | | | PB: | | |
| SB-5A | | Comp | SS | 0.5 | 2/25/18 | 1020 | / | X | | | | | Shipped Via: | | |
| SB-5A | | | SS | 1152 | 2/25/18 | 023 | / | | | | | | Remarks | Sample (lab on hand) | |
| SB-5B | | Comp | SS | 0.5 | 2/25/18 | 1015 | / | X | | | | | v409 | -16 18 19 20 | |
| SB-5B | | | SS | 1152 | 2/25/18 | 1018 | / | | | | | | Hold | -v5 17 20 21 | |
| SB-5C | | Comp | SS | 0.5 | 2/25/18 | 1141 | / | X | | | | | v5 | -18 21 | |
| SB-5C | | | SS | 1152 | 2/25/18 | 1143 | / | | | | | | Hold | -v5 19 22 X3 | |
| SB-5D | | Comp/Grab | SS | 0.5 | 2/25/18 | 1146 | / | X | X | X | | | v5/10 | 24 25 26 27 28 | |
| SB-5D | | | SS | 1152 | 2/25/18 | 1148 | / | | | | | | Hold | 28 | |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____ | | Remarks: Samples SB-4D and SB-5D composite for OCPs by EPA 8081A, discrete sample for arsenic and lead | | | | | | | | | | Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> NP <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | | |
| Relinquished by : (Signature) | | Date: 5/25/18 | Time: 1551 | Received by: (Signature) | | | Trip Blank Received: Yes / No HCl / MeOH TBR | | | | | | | | |
| Relinquished by : (Signature) | | Date: | Time: | Received by: (Signature) | | | Temp: 3.7°C Bottles Received: 44 | | | If preservation required by Login: Date/Time | | | | | |
| Relinquished by : (Signature) | | Date: | Time: | Received for lab by: (Signature) | | | Date: 5/25/18 Time: 0845 | | | Hold: | | Condition: NCF/ON | | | |

| Remarks: | | | | | Hold # |
|-------------------------------|---------------|------------|----------------------------------|--|---------------------------|
| Relinquished by : (Signature) | Date: 5/25/18 | Time: 1531 | Received by: (Signature) | Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> | Condition: (lab use only) |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 37°C Bottles Received: 4 | COC Seal Intact: Y N NA |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 5/26/18 Time: 0545 | pH Checked: NCF: |

Matthew Lockhart

ESC Lab Sciences
Non-Conformance Form

| | | | |
|----------------|-------------------|---------------|--------------------------------|
| Login #:997491 | Client:AEICONWCCA | Date:05/26/18 | Evaluated by: Matthew Lockhart |
|----------------|-------------------|---------------|--------------------------------|

Non-Conformance (check applicable items)

| Sample Integrity | | Chain of Custody Clarification | |
|-------------------------|--------------------------------|--|---|
| X | Parameter(s) past holding time | Login Clarification Needed | If Broken Container: |
| | Improper temperature | Chain of custody is incomplete | Insufficient packing material around container |
| | Improper container type | Please specify Metals requested. | Insufficient packing material inside cooler |
| | Improper preservation | Please specify TCLP requested. | Improper handling by carrier (FedEx / UPS / Courier |
| | Insufficient sample volume. | Received additional samples not listed on coc. | Sample was frozen |
| | Sample is biphasic. | Sample ids on containers do not match ids on coc | Container lid not intact |
| | Vials received with headspace. | Trip Blank not received. | If no Chain of Custody: |
| | Broken container | Client did not "X" analysis. | Received by: |
| | Broken container: | Chain of Custody is missing | Date/Time: |
| | Sufficient sample remains | | Temp./Cont. Rec./pH: |
| | | | Carrier: |
| | | | Tracking# |

Login Comments:Samples past holding time client is running Sv8081CA, samples collected 02/25/18.

| | | | | | | |
|---------------------|--------------------------------|-------|---|------------|---------------|-----------|
| Client informed by: | Call | Email | x | Voice Mail | Date:05/29/18 | Time:0900 |
| TSR Initials:bjf | Client Contact: Jacqueline Day | | | | | |

Login Instructions:

These were collected on 05/25/18.

Per client request:

Composite and analyze the following for SV8081CA:
COMP-1: SB-1A 0.5, SB-1B 0.5, SB-1C 0.5, SB-1D 0.5
COMP-2: SB-2A 0.5, SB-2B 0.5, SB-2C 0.5, SB-2D 0.5
COMP-3: SB-3A 0.5, SB-3B 0.5, SB-3C 0.5, SB-3D 0.5
COMP-4: SB-4A 0.5, SB-4B 0.5, SB-4C 0.5, SB-4D 0.5
COMP-5: SB-5A 0.5, SB-5B 0.5, SB-5C 0.5, SB-5D 0.5

Please cancel all analyses for
COMP SB-1D

COMP SB-2D
COMP SB-3D
COMP SB-4D
COMP SB-5D

Do not analyze any discrete samples for SV8081CA.

This E-mail and any attached files are confidential, and may be copyright protected. If you are not the addressee, any dissemination of this communication is strictly prohibited. If you have received this message in error, please contact the sender immediately and delete/destroy all information received.

June 05, 2018

AEI Consultants - CA

Sample Delivery Group: L997289
Samples Received: 05/26/2018
Project Number: 387046
Description: Yolanda Ave.

Report To: Jacqueline Day
2500 Camino Diablo
Walnut Creek, CA 94597

Entire Report Reviewed By:



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.

TABLE OF CONTENTS

ONE LAB. NATIONWIDE.



| | | |
|---|-----------|--|
| Cp: Cover Page | 1 |  ¹ Cp |
| Tc: Table of Contents | 2 |  ² Tc |
| Ss: Sample Summary | 3 |  ³ Ss |
| Cn: Case Narrative | 4 |  ⁴ Cn |
| Sr: Sample Results | 5 |  ⁵ Sr |
| SV-1 L997289-01 | 5 | |
| SV-2 L997289-02 | 7 | |
| SV-3 L997289-03 | 9 | |
| SV-4 L997289-04 | 11 | |
| Qc: Quality Control Summary | 13 |  ⁶ Qc |
| Volatile Organic Compounds (GC) by Method ASTM 1946 | 13 | |
| Volatile Organic Compounds (MS) by Method TO-15 | 14 | |
| Gl: Glossary of Terms | 19 |  ⁷ Gl |
| Al: Accreditations & Locations | 20 |  ⁸ Al |
| Sc: Sample Chain of Custody | 21 |  ⁹ Sc |

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



SV-1 L997289-01 Air

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|-----------|----------|-----------------------|--------------------|---------|
| Volatile Organic Compounds (GC) by Method ASTM 1946 | WG1118088 | 1 | 05/31/18 15:31 | 05/31/18 15:31 | MEL |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1118993 | 2 | 06/02/18 13:35 | 06/02/18 13:35 | MBF |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1119592 | 25 | 06/04/18 15:29 | 06/04/18 15:29 | MBF |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SV-2 L997289-02 Air

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|-----------|----------|-----------------------|--------------------|---------|
| Volatile Organic Compounds (GC) by Method ASTM 1946 | WG1118088 | 1 | 05/31/18 15:35 | 05/31/18 15:35 | MEL |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1118993 | 2 | 06/02/18 14:19 | 06/02/18 14:19 | MBF |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1119592 | 20 | 06/04/18 16:08 | 06/04/18 16:08 | MBF |

SV-3 L997289-03 Air

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|-----------|----------|-----------------------|--------------------|---------|
| Volatile Organic Compounds (GC) by Method ASTM 1946 | WG1118088 | 1 | 05/31/18 15:38 | 05/31/18 15:38 | MEL |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1118993 | 2 | 06/02/18 15:02 | 06/02/18 15:02 | MBF |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1119592 | 20 | 06/04/18 16:46 | 06/04/18 16:46 | MBF |

SV-4 L997289-04 Air

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|-----------|----------|-----------------------|--------------------|---------|
| Volatile Organic Compounds (GC) by Method ASTM 1946 | WG1118088 | 1 | 05/31/18 15:41 | 05/31/18 15:41 | MEL |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1118993 | 2 | 06/02/18 15:46 | 06/02/18 15:46 | MBF |



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

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC



Volatile Organic Compounds (GC) by Method ASTM 1946

| Analyte | CAS # | Mol. Wt. | RDL | Result | Qualifier | Dilution | Batch |
|---------|-----------|----------|-------|--------|-----------|----------|---------------------------|
| Helium | 7440-59-7 | | 0.100 | ND | | 1 | WG1118088 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | Qualifier | Dilution | Batch |
|--------------------------------|------------|----------|-------|-------|--------|--------|-----------|----------|---------------------------|
| | | | ppbv | ug/m3 | ppbv | ug/m3 | | | |
| Acetone | 67-64-1 | 58.10 | 2.50 | 5.94 | 49.3 | 117 | | 2 | WG1118993 |
| Allyl chloride | 107-05-1 | 76.53 | 0.400 | 1.25 | ND | ND | | 2 | WG1118993 |
| Benzene | 71-43-2 | 78.10 | 0.400 | 1.28 | 15.9 | 50.9 | | 2 | WG1118993 |
| Benzyl Chloride | 100-44-7 | 127 | 0.400 | 2.08 | ND | ND | | 2 | WG1118993 |
| Bromodichloromethane | 75-27-4 | 164 | 0.400 | 2.68 | ND | ND | | 2 | WG1118993 |
| Bromoform | 75-25-2 | 253 | 1.20 | 12.4 | ND | ND | | 2 | WG1118993 |
| Bromomethane | 74-83-9 | 94.90 | 0.400 | 1.55 | ND | ND | | 2 | WG1118993 |
| 1,3-Butadiene | 106-99-0 | 54.10 | 4.00 | 8.85 | 24.9 | 55.2 | | 2 | WG1118993 |
| Carbon disulfide | 75-15-0 | 76.10 | 0.400 | 1.24 | 6.59 | 20.5 | | 2 | WG1118993 |
| Carbon tetrachloride | 56-23-5 | 154 | 0.400 | 2.52 | ND | ND | | 2 | WG1118993 |
| Chlorobenzene | 108-90-7 | 113 | 0.400 | 1.85 | ND | ND | | 2 | WG1118993 |
| Chloroethane | 75-00-3 | 64.50 | 0.400 | 1.06 | ND | ND | | 2 | WG1118993 |
| Chloroform | 67-66-3 | 119 | 0.400 | 1.95 | ND | ND | | 2 | WG1118993 |
| Chloromethane | 74-87-3 | 50.50 | 0.400 | 0.826 | 1.45 | 2.99 | | 2 | WG1118993 |
| 2-Chlorotoluene | 95-49-8 | 126 | 0.400 | 2.06 | ND | ND | | 2 | WG1118993 |
| Cyclohexane | 110-82-7 | 84.20 | 0.400 | 1.38 | 19.2 | 66.2 | | 2 | WG1118993 |
| Dibromochloromethane | 124-48-1 | 208 | 0.400 | 3.40 | ND | ND | | 2 | WG1118993 |
| 1,2-Dibromoethane | 106-93-4 | 188 | 0.400 | 3.08 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.400 | 2.40 | ND | ND | | 2 | WG1118993 |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.400 | 2.40 | ND | ND | | 2 | WG1118993 |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.400 | 2.40 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichloroethane | 107-06-2 | 99 | 0.400 | 1.62 | ND | ND | | 2 | WG1118993 |
| 1,1-Dichloroethane | 75-34-3 | 98 | 0.400 | 1.60 | ND | ND | | 2 | WG1118993 |
| 1,1-Dichloroethylene | 75-35-4 | 96.90 | 0.400 | 1.59 | ND | ND | | 2 | WG1118993 |
| cis-1,2-Dichloroethylene | 156-59-2 | 96.90 | 0.400 | 1.59 | ND | ND | | 2 | WG1118993 |
| trans-1,2-Dichloroethylene | 156-60-5 | 96.90 | 0.400 | 1.59 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.400 | 1.85 | ND | ND | | 2 | WG1118993 |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.400 | 1.82 | ND | ND | | 2 | WG1118993 |
| trans-1,3-Dichloropropene | 10061-02-6 | 111 | 0.400 | 1.82 | ND | ND | | 2 | WG1118993 |
| 1,4-Dioxane | 123-91-1 | 88.10 | 0.400 | 1.44 | ND | ND | | 2 | WG1118993 |
| Ethanol | 64-17-5 | 46.10 | 1.26 | 2.38 | 43.5 | 82.0 | | 2 | WG1118993 |
| Ethylbenzene | 100-41-4 | 106 | 0.400 | 1.73 | 10.9 | 47.1 | | 2 | WG1118993 |
| 4-Ethyltoluene | 622-96-8 | 120 | 0.400 | 1.96 | 1.69 | 8.31 | | 2 | WG1118993 |
| Trichlorofluoromethane | 75-69-4 | 137.40 | 0.400 | 2.25 | ND | ND | | 2 | WG1118993 |
| Dichlorodifluoromethane | 75-71-8 | 120.92 | 0.400 | 1.98 | ND | ND | | 2 | WG1118993 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.40 | 0.400 | 3.07 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 171 | 0.400 | 2.80 | ND | ND | | 2 | WG1118993 |
| Heptane | 142-82-5 | 100 | 0.400 | 1.64 | 12.1 | 49.5 | | 2 | WG1118993 |
| Hexachloro-1,3-butadiene | 87-68-3 | 261 | 1.26 | 13.5 | ND | ND | | 2 | WG1118993 |
| n-Hexane | 110-54-3 | 86.20 | 5.00 | 17.6 | 238 | 841 | | 25 | WG1119592 |
| Isopropylbenzene | 98-82-8 | 120.20 | 0.400 | 1.97 | 0.400 | 1.97 | | 2 | WG1118993 |
| Methylene Chloride | 75-09-2 | 84.90 | 0.400 | 1.39 | ND | ND | | 2 | WG1118993 |
| Methyl Butyl Ketone | 591-78-6 | 100 | 2.50 | 10.2 | ND | ND | | 2 | WG1118993 |
| 2-Butanone (MEK) | 78-93-3 | 72.10 | 2.50 | 7.37 | 11.3 | 33.4 | | 2 | WG1118993 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | 100.10 | 2.50 | 10.2 | ND | ND | | 2 | WG1118993 |
| Methyl methacrylate | 80-62-6 | 100.12 | 0.400 | 1.64 | ND | ND | | 2 | WG1118993 |
| MTBE | 1634-04-4 | 88.10 | 0.400 | 1.44 | ND | ND | | 2 | WG1118993 |
| Naphthalene | 91-20-3 | 128 | 1.26 | 6.60 | ND | ND | | 2 | WG1118993 |
| 2-Propanol | 67-63-0 | 60.10 | 2.50 | 6.15 | ND | ND | | 2 | WG1118993 |
| Propene | 115-07-1 | 42.10 | 10.0 | 17.2 | 560 | 964 | | 25 | WG1119592 |



Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | <u>Qualifier</u> | Dilution | <u>Batch</u> |
|----------------------------|-----------|----------|----------|------|--------|--------|------------------|----------|---------------------------|
| Styrene | 100-42-5 | 104 | 0.400 | 1.70 | ND | ND | | 2 | WG1118993 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 168 | 0.400 | 2.75 | ND | ND | | 2 | WG1118993 |
| Tetrachloroethylene | 127-18-4 | 166 | 0.400 | 2.72 | ND | ND | | 2 | WG1118993 |
| Tetrahydrofuran | 109-99-9 | 72.10 | 0.400 | 1.18 | ND | ND | | 2 | WG1118993 |
| Toluene | 108-88-3 | 92.10 | 0.400 | 1.51 | 18.2 | 68.5 | | 2 | WG1118993 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181 | 1.26 | 9.33 | ND | ND | | 2 | WG1118993 |
| 1,1,1-Trichloroethane | 71-55-6 | 133 | 0.400 | 2.18 | ND | ND | | 2 | WG1118993 |
| 1,1,2-Trichloroethane | 79-00-5 | 133 | 0.400 | 2.18 | ND | ND | | 2 | WG1118993 |
| Trichloroethylene | 79-01-6 | 131 | 0.400 | 2.14 | ND | ND | | 2 | WG1118993 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120 | 0.400 | 1.96 | 1.44 | 7.06 | | 2 | WG1118993 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120 | 0.400 | 1.96 | 0.839 | 4.12 | | 2 | WG1118993 |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.22 | 0.400 | 1.87 | 5.89 | 27.5 | | 2 | WG1118993 |
| Vinyl chloride | 75-01-4 | 62.50 | 0.400 | 1.02 | ND | ND | | 2 | WG1118993 |
| Vinyl Bromide | 593-60-2 | 106.95 | 0.400 | 1.75 | ND | ND | | 2 | WG1118993 |
| Vinyl acetate | 108-05-4 | 86.10 | 0.400 | 1.41 | ND | ND | | 2 | WG1118993 |
| m&p-Xylene | 1330-20-7 | 106 | 0.800 | 3.47 | 43.9 | 190 | | 2 | WG1118993 |
| o-Xylene | 95-47-6 | 106 | 0.400 | 1.73 | 12.5 | 54.0 | | 2 | WG1118993 |
| 1,1-Difluoroethane | 75-37-6 | 66.05 | 0.400 | 1.08 | 9.71 | 26.2 | | 2 | WG1118993 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 112 | | | | WG1118993 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 89.8 | | | | WG1119592 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method ASTM 1946

| Analyte | CAS # | Mol. Wt. | RDL | Result | Qualifier | Dilution | Batch |
|---------|-----------|----------|-------|--------|-----------|----------|---------------------------|
| Helium | 7440-59-7 | | 0.100 | ND | | 1 | WG1118088 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | Qualifier | Dilution | Batch |
|--------------------------------|------------|----------|-------|-------|--------|--------|-----------|----------|---------------------------|
| | | | ppbv | ug/m3 | ppbv | ug/m3 | | | |
| Acetone | 67-64-1 | 58.10 | 2.50 | 5.94 | 38.6 | 91.8 | | 2 | WG1118993 |
| Allyl chloride | 107-05-1 | 76.53 | 0.400 | 1.25 | ND | ND | | 2 | WG1118993 |
| Benzene | 71-43-2 | 78.10 | 0.400 | 1.28 | 12.9 | 41.1 | | 2 | WG1118993 |
| Benzyl Chloride | 100-44-7 | 127 | 0.400 | 2.08 | ND | ND | | 2 | WG1118993 |
| Bromodichloromethane | 75-27-4 | 164 | 0.400 | 2.68 | ND | ND | | 2 | WG1118993 |
| Bromoform | 75-25-2 | 253 | 1.20 | 12.4 | ND | ND | | 2 | WG1118993 |
| Bromomethane | 74-83-9 | 94.90 | 0.400 | 1.55 | ND | ND | | 2 | WG1118993 |
| 1,3-Butadiene | 106-99-0 | 54.10 | 4.00 | 8.85 | 7.57 | 16.7 | | 2 | WG1118993 |
| Carbon disulfide | 75-15-0 | 76.10 | 0.400 | 1.24 | 3.78 | 11.8 | | 2 | WG1118993 |
| Carbon tetrachloride | 56-23-5 | 154 | 0.400 | 2.52 | ND | ND | | 2 | WG1118993 |
| Chlorobenzene | 108-90-7 | 113 | 0.400 | 1.85 | ND | ND | | 2 | WG1118993 |
| Chloroethane | 75-00-3 | 64.50 | 0.400 | 1.06 | ND | ND | | 2 | WG1118993 |
| Chloroform | 67-66-3 | 119 | 0.400 | 1.95 | ND | ND | | 2 | WG1118993 |
| Chloromethane | 74-87-3 | 50.50 | 0.400 | 0.826 | 1.51 | 3.13 | | 2 | WG1118993 |
| 2-Chlorotoluene | 95-49-8 | 126 | 0.400 | 2.06 | ND | ND | | 2 | WG1118993 |
| Cyclohexane | 110-82-7 | 84.20 | 0.400 | 1.38 | 7.12 | 24.5 | | 2 | WG1118993 |
| Dibromochloromethane | 124-48-1 | 208 | 0.400 | 3.40 | ND | ND | | 2 | WG1118993 |
| 1,2-Dibromoethane | 106-93-4 | 188 | 0.400 | 3.08 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.400 | 2.40 | ND | ND | | 2 | WG1118993 |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.400 | 2.40 | ND | ND | | 2 | WG1118993 |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.400 | 2.40 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichloroethane | 107-06-2 | 99 | 0.400 | 1.62 | ND | ND | | 2 | WG1118993 |
| 1,1-Dichloroethane | 75-34-3 | 98 | 0.400 | 1.60 | ND | ND | | 2 | WG1118993 |
| 1,1-Dichloroethylene | 75-35-4 | 96.90 | 0.400 | 1.59 | ND | ND | | 2 | WG1118993 |
| cis-1,2-Dichloroethylene | 156-59-2 | 96.90 | 0.400 | 1.59 | ND | ND | | 2 | WG1118993 |
| trans-1,2-Dichloroethylene | 156-60-5 | 96.90 | 0.400 | 1.59 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.400 | 1.85 | ND | ND | | 2 | WG1118993 |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.400 | 1.82 | ND | ND | | 2 | WG1118993 |
| trans-1,3-Dichloropropene | 10061-02-6 | 111 | 0.400 | 1.82 | ND | ND | | 2 | WG1118993 |
| 1,4-Dioxane | 123-91-1 | 88.10 | 0.400 | 1.44 | ND | ND | | 2 | WG1118993 |
| Ethanol | 64-17-5 | 46.10 | 1.26 | 2.38 | 49.6 | 93.5 | | 2 | WG1118993 |
| Ethylbenzene | 100-41-4 | 106 | 0.400 | 1.73 | 3.90 | 16.9 | | 2 | WG1118993 |
| 4-Ethyltoluene | 622-96-8 | 120 | 0.400 | 1.96 | 1.06 | 5.22 | | 2 | WG1118993 |
| Trichlorofluoromethane | 75-69-4 | 137.40 | 0.400 | 2.25 | ND | ND | | 2 | WG1118993 |
| Dichlorodifluoromethane | 75-71-8 | 120.92 | 0.400 | 1.98 | ND | ND | | 2 | WG1118993 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.40 | 0.400 | 3.07 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 171 | 0.400 | 2.80 | ND | ND | | 2 | WG1118993 |
| Heptane | 142-82-5 | 100 | 0.400 | 1.64 | 11.0 | 45.0 | | 2 | WG1118993 |
| Hexachloro-1,3-butadiene | 87-68-3 | 261 | 1.26 | 13.5 | ND | ND | | 2 | WG1118993 |
| n-Hexane | 110-54-3 | 86.20 | 0.400 | 1.41 | 19.6 | 69.3 | | 2 | WG1118993 |
| Isopropylbenzene | 98-82-8 | 120.20 | 0.400 | 1.97 | ND | ND | | 2 | WG1118993 |
| Methylene Chloride | 75-09-2 | 84.90 | 0.400 | 1.39 | ND | ND | | 2 | WG1118993 |
| Methyl Butyl Ketone | 591-78-6 | 100 | 2.50 | 10.2 | ND | ND | | 2 | WG1118993 |
| 2-Butanone (MEK) | 78-93-3 | 72.10 | 2.50 | 7.37 | 12.3 | 36.3 | | 2 | WG1118993 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | 100.10 | 2.50 | 10.2 | ND | ND | | 2 | WG1118993 |
| Methyl methacrylate | 80-62-6 | 100.12 | 0.400 | 1.64 | ND | ND | | 2 | WG1118993 |
| MTBE | 1634-04-4 | 88.10 | 0.400 | 1.44 | ND | ND | | 2 | WG1118993 |
| Naphthalene | 91-20-3 | 128 | 1.26 | 6.60 | ND | ND | | 2 | WG1118993 |
| 2-Propanol | 67-63-0 | 60.10 | 2.50 | 6.15 | ND | ND | | 2 | WG1118993 |
| Propene | 115-07-1 | 42.10 | 8.00 | 13.8 | 251 | 433 | | 20 | WG1119592 |



Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | <u>Qualifier</u> | Dilution | Batch |
|----------------------------|-----------|----------|----------|------|--------|--------|------------------|----------|---------------------------|
| Styrene | 100-42-5 | 104 | 0.400 | 1.70 | 0.566 | 2.41 | | 2 | WG1118993 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 168 | 0.400 | 2.75 | ND | ND | | 2 | WG1118993 |
| Tetrachloroethylene | 127-18-4 | 166 | 0.400 | 2.72 | ND | ND | | 2 | WG1118993 |
| Tetrahydrofuran | 109-99-9 | 72.10 | 0.400 | 1.18 | ND | ND | | 2 | WG1118993 |
| Toluene | 108-88-3 | 92.10 | 0.400 | 1.51 | 31.0 | 117 | | 2 | WG1118993 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181 | 1.26 | 9.33 | ND | ND | | 2 | WG1118993 |
| 1,1,1-Trichloroethane | 71-55-6 | 133 | 0.400 | 2.18 | ND | ND | | 2 | WG1118993 |
| 1,1,2-Trichloroethane | 79-00-5 | 133 | 0.400 | 2.18 | ND | ND | | 2 | WG1118993 |
| Trichloroethylene | 79-01-6 | 131 | 0.400 | 2.14 | ND | ND | | 2 | WG1118993 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120 | 0.400 | 1.96 | 0.837 | 4.11 | | 2 | WG1118993 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120 | 0.400 | 1.96 | ND | ND | | 2 | WG1118993 |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.22 | 0.400 | 1.87 | 13.9 | 65.0 | | 2 | WG1118993 |
| Vinyl chloride | 75-01-4 | 62.50 | 0.400 | 1.02 | ND | ND | | 2 | WG1118993 |
| Vinyl Bromide | 593-60-2 | 106.95 | 0.400 | 1.75 | ND | ND | | 2 | WG1118993 |
| Vinyl acetate | 108-05-4 | 86.10 | 0.400 | 1.41 | ND | ND | | 2 | WG1118993 |
| m&p-Xylene | 1330-20-7 | 106 | 0.800 | 3.47 | 12.6 | 54.6 | | 2 | WG1118993 |
| o-Xylene | 95-47-6 | 106 | 0.400 | 1.73 | 3.55 | 15.4 | | 2 | WG1118993 |
| 1,1-Difluoroethane | 75-37-6 | 66.05 | 0.400 | 1.08 | 2.86 | 7.73 | | 2 | WG1118993 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 107 | | | | WG1118993 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 89.2 | | | | WG1119592 |





Volatile Organic Compounds (GC) by Method ASTM 1946

| Analyte | CAS # | Mol. Wt. | RDL | Result | Qualifier | Dilution | Batch |
|---------|-----------|----------|-------|--------|-----------|----------|---------------------------|
| Helium | 7440-59-7 | | 0.100 | ND | | 1 | WG1118088 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | Qualifier | Dilution | Batch |
|--------------------------------|------------|----------|-------|-------|--------|--------|-----------|----------|---------------------------|
| | | | ppbv | ug/m3 | ppbv | ug/m3 | | | |
| Acetone | 67-64-1 | 58.10 | 2.50 | 5.94 | 60.5 | 144 | | 2 | WG1118993 |
| Allyl chloride | 107-05-1 | 76.53 | 0.400 | 1.25 | ND | ND | | 2 | WG1118993 |
| Benzene | 71-43-2 | 78.10 | 0.400 | 1.28 | 11.7 | 37.4 | | 2 | WG1118993 |
| Benzyl Chloride | 100-44-7 | 127 | 0.400 | 2.08 | ND | ND | | 2 | WG1118993 |
| Bromodichloromethane | 75-27-4 | 164 | 0.400 | 2.68 | ND | ND | | 2 | WG1118993 |
| Bromoform | 75-25-2 | 253 | 1.20 | 12.4 | ND | ND | | 2 | WG1118993 |
| Bromomethane | 74-83-9 | 94.90 | 0.400 | 1.55 | ND | ND | | 2 | WG1118993 |
| 1,3-Butadiene | 106-99-0 | 54.10 | 4.00 | 8.85 | 10.7 | 23.7 | | 2 | WG1118993 |
| Carbon disulfide | 75-15-0 | 76.10 | 0.400 | 1.24 | 3.84 | 12.0 | | 2 | WG1118993 |
| Carbon tetrachloride | 56-23-5 | 154 | 0.400 | 2.52 | ND | ND | | 2 | WG1118993 |
| Chlorobenzene | 108-90-7 | 113 | 0.400 | 1.85 | ND | ND | | 2 | WG1118993 |
| Chloroethane | 75-00-3 | 64.50 | 0.400 | 1.06 | ND | ND | | 2 | WG1118993 |
| Chloroform | 67-66-3 | 119 | 0.400 | 1.95 | ND | ND | | 2 | WG1118993 |
| Chloromethane | 74-87-3 | 50.50 | 0.400 | 0.826 | 1.13 | 2.33 | | 2 | WG1118993 |
| 2-Chlorotoluene | 95-49-8 | 126 | 0.400 | 2.06 | ND | ND | | 2 | WG1118993 |
| Cyclohexane | 110-82-7 | 84.20 | 0.400 | 1.38 | 7.07 | 24.3 | | 2 | WG1118993 |
| Dibromochloromethane | 124-48-1 | 208 | 0.400 | 3.40 | ND | ND | | 2 | WG1118993 |
| 1,2-Dibromoethane | 106-93-4 | 188 | 0.400 | 3.08 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.400 | 2.40 | ND | ND | | 2 | WG1118993 |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.400 | 2.40 | ND | ND | | 2 | WG1118993 |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.400 | 2.40 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichloroethane | 107-06-2 | 99 | 0.400 | 1.62 | ND | ND | | 2 | WG1118993 |
| 1,1-Dichloroethane | 75-34-3 | 98 | 0.400 | 1.60 | ND | ND | | 2 | WG1118993 |
| 1,1-Dichloroethylene | 75-35-4 | 96.90 | 0.400 | 1.59 | ND | ND | | 2 | WG1118993 |
| cis-1,2-Dichloroethylene | 156-59-2 | 96.90 | 0.400 | 1.59 | ND | ND | | 2 | WG1118993 |
| trans-1,2-Dichloroethylene | 156-60-5 | 96.90 | 0.400 | 1.59 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.400 | 1.85 | ND | ND | | 2 | WG1118993 |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.400 | 1.82 | ND | ND | | 2 | WG1118993 |
| trans-1,3-Dichloropropene | 10061-02-6 | 111 | 0.400 | 1.82 | ND | ND | | 2 | WG1118993 |
| 1,4-Dioxane | 123-91-1 | 88.10 | 0.400 | 1.44 | ND | ND | | 2 | WG1118993 |
| Ethanol | 64-17-5 | 46.10 | 1.26 | 2.38 | 63.1 | 119 | | 2 | WG1118993 |
| Ethylbenzene | 100-41-4 | 106 | 0.400 | 1.73 | 2.99 | 12.9 | | 2 | WG1118993 |
| 4-Ethyltoluene | 622-96-8 | 120 | 0.400 | 1.96 | ND | ND | | 2 | WG1118993 |
| Trichlorofluoromethane | 75-69-4 | 137.40 | 0.400 | 2.25 | ND | ND | | 2 | WG1118993 |
| Dichlorodifluoromethane | 75-71-8 | 120.92 | 0.400 | 1.98 | ND | ND | | 2 | WG1118993 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.40 | 0.400 | 3.07 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 171 | 0.400 | 2.80 | ND | ND | | 2 | WG1118993 |
| Heptane | 142-82-5 | 100 | 0.400 | 1.64 | 7.48 | 30.6 | | 2 | WG1118993 |
| Hexachloro-1,3-butadiene | 87-68-3 | 261 | 1.26 | 13.5 | ND | ND | | 2 | WG1118993 |
| n-Hexane | 110-54-3 | 86.20 | 0.400 | 1.41 | 32.9 | 116 | | 2 | WG1118993 |
| Isopropylbenzene | 98-82-8 | 120.20 | 0.400 | 1.97 | ND | ND | | 2 | WG1118993 |
| Methylene Chloride | 75-09-2 | 84.90 | 0.400 | 1.39 | 0.645 | 2.24 | | 2 | WG1118993 |
| Methyl Butyl Ketone | 591-78-6 | 100 | 2.50 | 10.2 | ND | ND | | 2 | WG1118993 |
| 2-Butanone (MEK) | 78-93-3 | 72.10 | 2.50 | 7.37 | 12.1 | 35.5 | | 2 | WG1118993 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | 100.10 | 2.50 | 10.2 | ND | ND | | 2 | WG1118993 |
| Methyl methacrylate | 80-62-6 | 100.12 | 0.400 | 1.64 | ND | ND | | 2 | WG1118993 |
| MTBE | 1634-04-4 | 88.10 | 0.400 | 1.44 | ND | ND | | 2 | WG1118993 |
| Naphthalene | 91-20-3 | 128 | 1.26 | 6.60 | ND | ND | | 2 | WG1118993 |
| 2-Propanol | 67-63-0 | 60.10 | 2.50 | 6.15 | 18.5 | 45.5 | | 2 | WG1118993 |
| Propene | 115-07-1 | 42.10 | 8.00 | 13.8 | 112 | 193 | | 20 | WG1119592 |



Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | <u>Qualifier</u> | Dilution | Batch |
|----------------------------|-----------|----------|----------|------|--------|--------|------------------|----------|---------------------------|
| Styrene | 100-42-5 | 104 | 0.400 | 1.70 | 0.563 | 2.39 | | 2 | WG1118993 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 168 | 0.400 | 2.75 | ND | ND | | 2 | WG1118993 |
| Tetrachloroethylene | 127-18-4 | 166 | 0.400 | 2.72 | 0.639 | 4.34 | | 2 | WG1118993 |
| Tetrahydrofuran | 109-99-9 | 72.10 | 0.400 | 1.18 | ND | ND | | 2 | WG1118993 |
| Toluene | 108-88-3 | 92.10 | 0.400 | 1.51 | 36.5 | 138 | | 2 | WG1118993 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181 | 1.26 | 9.33 | ND | ND | | 2 | WG1118993 |
| 1,1,1-Trichloroethane | 71-55-6 | 133 | 0.400 | 2.18 | ND | ND | | 2 | WG1118993 |
| 1,1,2-Trichloroethane | 79-00-5 | 133 | 0.400 | 2.18 | ND | ND | | 2 | WG1118993 |
| Trichloroethylene | 79-01-6 | 131 | 0.400 | 2.14 | ND | ND | | 2 | WG1118993 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120 | 0.400 | 1.96 | 0.758 | 3.72 | | 2 | WG1118993 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120 | 0.400 | 1.96 | ND | ND | | 2 | WG1118993 |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.22 | 0.400 | 1.87 | 8.52 | 39.8 | | 2 | WG1118993 |
| Vinyl chloride | 75-01-4 | 62.50 | 0.400 | 1.02 | ND | ND | | 2 | WG1118993 |
| Vinyl Bromide | 593-60-2 | 106.95 | 0.400 | 1.75 | ND | ND | | 2 | WG1118993 |
| Vinyl acetate | 108-05-4 | 86.10 | 0.400 | 1.41 | ND | ND | | 2 | WG1118993 |
| m&p-Xylene | 1330-20-7 | 106 | 0.800 | 3.47 | 9.45 | 41.0 | | 2 | WG1118993 |
| o-Xylene | 95-47-6 | 106 | 0.400 | 1.73 | 2.69 | 11.7 | | 2 | WG1118993 |
| 1,1-Difluoroethane | 75-37-6 | 66.05 | 0.400 | 1.08 | 14.8 | 39.9 | | 2 | WG1118993 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 103 | | | | WG1118993 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 88.5 | | | | WG1119592 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC) by Method ASTM 1946

| Analyte | CAS # | Mol. Wt. | RDL | Result | Qualifier | Dilution | Batch |
|---------|-----------|----------|-------|--------|-----------|----------|---------------------------|
| Helium | 7440-59-7 | | 0.100 | ND | | 1 | WG1118088 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | Qualifier | Dilution | Batch |
|--------------------------------|------------|----------|-------|-------|--------|--------|-----------|----------|---------------------------|
| | | | ppbv | ug/m3 | ppbv | ug/m3 | | | |
| Acetone | 67-64-1 | 58.10 | 2.50 | 5.94 | 26.2 | 62.3 | | 2 | WG1118993 |
| Allyl chloride | 107-05-1 | 76.53 | 0.400 | 1.25 | ND | ND | | 2 | WG1118993 |
| Benzene | 71-43-2 | 78.10 | 0.400 | 1.28 | 9.48 | 30.3 | | 2 | WG1118993 |
| Benzyl Chloride | 100-44-7 | 127 | 0.400 | 2.08 | ND | ND | | 2 | WG1118993 |
| Bromodichloromethane | 75-27-4 | 164 | 0.400 | 2.68 | ND | ND | | 2 | WG1118993 |
| Bromoform | 75-25-2 | 253 | 1.20 | 12.4 | ND | ND | | 2 | WG1118993 |
| Bromomethane | 74-83-9 | 94.90 | 0.400 | 1.55 | ND | ND | | 2 | WG1118993 |
| 1,3-Butadiene | 106-99-0 | 54.10 | 4.00 | 8.85 | 7.31 | 16.2 | | 2 | WG1118993 |
| Carbon disulfide | 75-15-0 | 76.10 | 0.400 | 1.24 | 3.96 | 12.3 | | 2 | WG1118993 |
| Carbon tetrachloride | 56-23-5 | 154 | 0.400 | 2.52 | ND | ND | | 2 | WG1118993 |
| Chlorobenzene | 108-90-7 | 113 | 0.400 | 1.85 | ND | ND | | 2 | WG1118993 |
| Chloroethane | 75-00-3 | 64.50 | 0.400 | 1.06 | ND | ND | | 2 | WG1118993 |
| Chloroform | 67-66-3 | 119 | 0.400 | 1.95 | ND | ND | | 2 | WG1118993 |
| Chloromethane | 74-87-3 | 50.50 | 0.400 | 0.826 | 1.29 | 2.67 | | 2 | WG1118993 |
| 2-Chlorotoluene | 95-49-8 | 126 | 0.400 | 2.06 | ND | ND | | 2 | WG1118993 |
| Cyclohexane | 110-82-7 | 84.20 | 0.400 | 1.38 | 16.4 | 56.6 | | 2 | WG1118993 |
| Dibromochloromethane | 124-48-1 | 208 | 0.400 | 3.40 | ND | ND | | 2 | WG1118993 |
| 1,2-Dibromoethane | 106-93-4 | 188 | 0.400 | 3.08 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.400 | 2.40 | ND | ND | | 2 | WG1118993 |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.400 | 2.40 | ND | ND | | 2 | WG1118993 |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.400 | 2.40 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichloroethane | 107-06-2 | 99 | 0.400 | 1.62 | ND | ND | | 2 | WG1118993 |
| 1,1-Dichloroethane | 75-34-3 | 98 | 0.400 | 1.60 | ND | ND | | 2 | WG1118993 |
| 1,1-Dichloroethylene | 75-35-4 | 96.90 | 0.400 | 1.59 | ND | ND | | 2 | WG1118993 |
| cis-1,2-Dichloroethylene | 156-59-2 | 96.90 | 0.400 | 1.59 | ND | ND | | 2 | WG1118993 |
| trans-1,2-Dichloroethylene | 156-60-5 | 96.90 | 0.400 | 1.59 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.400 | 1.85 | ND | ND | | 2 | WG1118993 |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.400 | 1.82 | ND | ND | | 2 | WG1118993 |
| trans-1,3-Dichloropropene | 10061-02-6 | 111 | 0.400 | 1.82 | ND | ND | | 2 | WG1118993 |
| 1,4-Dioxane | 123-91-1 | 88.10 | 0.400 | 1.44 | ND | ND | | 2 | WG1118993 |
| Ethanol | 64-17-5 | 46.10 | 1.26 | 2.38 | 31.1 | 58.7 | | 2 | WG1118993 |
| Ethylbenzene | 100-41-4 | 106 | 0.400 | 1.73 | 1.74 | 7.56 | | 2 | WG1118993 |
| 4-Ethyltoluene | 622-96-8 | 120 | 0.400 | 1.96 | 0.575 | 2.82 | | 2 | WG1118993 |
| Trichlorofluoromethane | 75-69-4 | 137.40 | 0.400 | 2.25 | ND | ND | | 2 | WG1118993 |
| Dichlorodifluoromethane | 75-71-8 | 120.92 | 0.400 | 1.98 | ND | ND | | 2 | WG1118993 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.40 | 0.400 | 3.07 | ND | ND | | 2 | WG1118993 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 171 | 0.400 | 2.80 | ND | ND | | 2 | WG1118993 |
| Heptane | 142-82-5 | 100 | 0.400 | 1.64 | 6.50 | 26.6 | | 2 | WG1118993 |
| Hexachloro-1,3-butadiene | 87-68-3 | 261 | 1.26 | 13.5 | ND | ND | | 2 | WG1118993 |
| n-Hexane | 110-54-3 | 86.20 | 0.400 | 1.41 | 13.6 | 48.1 | | 2 | WG1118993 |
| Isopropylbenzene | 98-82-8 | 120.20 | 0.400 | 1.97 | ND | ND | | 2 | WG1118993 |
| Methylene Chloride | 75-09-2 | 84.90 | 0.400 | 1.39 | ND | ND | | 2 | WG1118993 |
| Methyl Butyl Ketone | 591-78-6 | 100 | 2.50 | 10.2 | ND | ND | | 2 | WG1118993 |
| 2-Butanone (MEK) | 78-93-3 | 72.10 | 2.50 | 7.37 | 6.09 | 18.0 | | 2 | WG1118993 |
| 4-Methyl-2-pentanone (MIBK) | 108-10-1 | 100.10 | 2.50 | 10.2 | ND | ND | | 2 | WG1118993 |
| Methyl methacrylate | 80-62-6 | 100.12 | 0.400 | 1.64 | ND | ND | | 2 | WG1118993 |
| MTBE | 1634-04-4 | 88.10 | 0.400 | 1.44 | ND | ND | | 2 | WG1118993 |
| Naphthalene | 91-20-3 | 128 | 1.26 | 6.60 | ND | ND | | 2 | WG1118993 |
| 2-Propanol | 67-63-0 | 60.10 | 2.50 | 6.15 | ND | ND | | 2 | WG1118993 |
| Propene | 115-07-1 | 42.10 | 0.800 | 1.38 | 76.1 | 131 | | 2 | WG1118993 |



Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | <u>Qualifier</u> | Dilution | Batch |
|----------------------------|-----------|----------|----------|-------|--------|--------|------------------|----------|---------------------------|
| | | | ppbv | ug/m3 | ppbv | ug/m3 | | | |
| Styrene | 100-42-5 | 104 | 0.400 | 1.70 | ND | ND | | 2 | WG1118993 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 168 | 0.400 | 2.75 | ND | ND | | 2 | WG1118993 |
| Tetrachloroethylene | 127-18-4 | 166 | 0.400 | 2.72 | 0.459 | 3.12 | | 2 | WG1118993 |
| Tetrahydrofuran | 109-99-9 | 72.10 | 0.400 | 1.18 | ND | ND | | 2 | WG1118993 |
| Toluene | 108-88-3 | 92.10 | 0.400 | 1.51 | 15.7 | 59.1 | | 2 | WG1118993 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181 | 1.26 | 9.33 | ND | ND | | 2 | WG1118993 |
| 1,1,1-Trichloroethane | 71-55-6 | 133 | 0.400 | 2.18 | ND | ND | | 2 | WG1118993 |
| 1,1,2-Trichloroethane | 79-00-5 | 133 | 0.400 | 2.18 | ND | ND | | 2 | WG1118993 |
| Trichloroethylene | 79-01-6 | 131 | 0.400 | 2.14 | ND | ND | | 2 | WG1118993 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120 | 0.400 | 1.96 | 0.504 | 2.47 | | 2 | WG1118993 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120 | 0.400 | 1.96 | ND | ND | | 2 | WG1118993 |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.22 | 0.400 | 1.87 | 5.16 | 24.1 | | 2 | WG1118993 |
| Vinyl chloride | 75-01-4 | 62.50 | 0.400 | 1.02 | ND | ND | | 2 | WG1118993 |
| Vinyl Bromide | 593-60-2 | 106.95 | 0.400 | 1.75 | ND | ND | | 2 | WG1118993 |
| Vinyl acetate | 108-05-4 | 86.10 | 0.400 | 1.41 | ND | ND | | 2 | WG1118993 |
| m&p-Xylene | 1330-20-7 | 106 | 0.800 | 3.47 | 5.64 | 24.5 | | 2 | WG1118993 |
| o-Xylene | 95-47-6 | 106 | 0.400 | 1.73 | 1.89 | 8.19 | | 2 | WG1118993 |
| 1,1-Difluoroethane | 75-37-6 | 66.05 | 0.400 | 1.08 | 5.42 | 14.6 | | 2 | WG1118993 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 105 | | | | WG1118993 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

L997289-01,02,03,04

Method Blank (MB)

(MB) R3314328-3 05/31/18 14:40

| Analyte | MB Result % | <u>MB Qualifier</u> | MB MDL % | MB RDL % |
|---------|----------------|---------------------|-------------|-------------|
| Helium | U | | 0.0259 | 0.100 |

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

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

(LCS) R3314328-1 05/31/18 14:30 • (LCSD) R3314328-2 05/31/18 14:34

| Analyte | Spike Amount % | LCS Result % | LCSD Result % | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|---------|-------------------|-----------------|------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Helium | 2.50 | 2.62 | 2.15 | 105 | 85.9 | 70.0-130 | | | 19.9 | 25 |



L997289-01,02,03,04

Method Blank (MB)

(MB) R3315135-3 06/02/18 04:11

| Analyte | MB Result ppbv | MB Qualifier | MB MDL ppbv | MB RDL ppbv | |
|--------------------------------|-------------------|--------------|----------------|----------------|-----------------|
| Acetone | U | | 0.0569 | 1.25 | ¹ Cp |
| Allyl Chloride | U | | 0.0546 | 0.200 | ² Tc |
| Benzene | U | | 0.0460 | 0.200 | ³ Ss |
| Benzyl Chloride | U | | 0.0598 | 0.200 | ⁴ Cn |
| Bromodichloromethane | U | | 0.0436 | 0.200 | ⁵ Sr |
| Bromoform | U | | 0.0786 | 0.600 | ⁶ Qc |
| Bromomethane | U | | 0.0609 | 0.200 | ⁷ Gl |
| 1,3-Butadiene | U | | 0.0563 | 2.00 | ⁸ Al |
| Carbon disulfide | U | | 0.0544 | 0.200 | ⁹ Sc |
| Carbon tetrachloride | U | | 0.0585 | 0.200 | |
| Chlorobenzene | U | | 0.0601 | 0.200 | |
| Chloroethane | U | | 0.0489 | 0.200 | |
| Chloroform | U | | 0.0574 | 0.200 | |
| Chloromethane | U | | 0.0544 | 0.200 | |
| 2-Chlorotoluene | U | | 0.0605 | 0.200 | |
| Cyclohexane | U | | 0.0534 | 0.200 | |
| Dibromochloromethane | U | | 0.0494 | 0.200 | |
| 1,2-Dibromoethane | U | | 0.0185 | 0.200 | |
| 1,2-Dichlorobenzene | U | | 0.0603 | 0.200 | |
| 1,3-Dichlorobenzene | U | | 0.0597 | 0.200 | |
| 1,4-Dichlorobenzene | U | | 0.0557 | 0.200 | |
| 1,2-Dichloroethane | U | | 0.0616 | 0.200 | |
| 1,1-Dichloroethane | U | | 0.0514 | 0.200 | |
| 1,1-Dichloroethene | U | | 0.0490 | 0.200 | |
| cis-1,2-Dichloroethene | U | | 0.0389 | 0.200 | |
| trans-1,2-Dichloroethene | U | | 0.0464 | 0.200 | |
| 1,2-Dichloropropane | U | | 0.0599 | 0.200 | |
| cis-1,3-Dichloropropene | U | | 0.0588 | 0.200 | |
| trans-1,3-Dichloropropene | U | | 0.0435 | 0.200 | |
| 1,4-Dioxane | U | | 0.0554 | 0.200 | |
| Ethylbenzene | U | | 0.0506 | 0.200 | |
| 4-Ethyltoluene | U | | 0.0666 | 0.200 | |
| Trichlorofluoromethane | U | | 0.0673 | 0.200 | |
| Dichlorodifluoromethane | U | | 0.0601 | 0.200 | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0687 | 0.200 | |
| 1,2-Dichlorotetrafluoroethane | U | | 0.0458 | 0.200 | |
| Heptane | U | | 0.0626 | 0.200 | |
| Hexachloro-1,3-butadiene | U | | 0.0656 | 0.630 | |
| n-Hexane | U | | 0.0457 | 0.200 | |
| Isopropylbenzene | U | | 0.0563 | 0.200 | |



L997289-01,02,03,04

Method Blank (MB)

(MB) R3315135-3 06/02/18 04:11

| Analyte | MB Result ppbv | <u>MB Qualifier</u> | MB MDL ppbv | MB RDL ppbv | | | | | | | | |
|-----------------------------|-------------------|---------------------|----------------|----------------|--|--|--|--|--|--|--|-----------------|
| Methylene Chloride | U | | 0.0465 | 0.200 | | | | | | | | ¹ Cp |
| Methyl Butyl Ketone | U | | 0.0682 | 1.25 | | | | | | | | ² Tc |
| 2-Butanone (MEK) | U | | 0.0493 | 1.25 | | | | | | | | ³ Ss |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0650 | 1.25 | | | | | | | | ⁴ Cn |
| Methyl Methacrylate | U | | 0.0773 | 0.200 | | | | | | | | ⁵ Sr |
| MTBE | U | | 0.0505 | 0.200 | | | | | | | | ⁶ Qc |
| Naphthalene | U | | 0.154 | 0.630 | | | | | | | | ⁷ Gl |
| 2-Propanol | U | | 0.0882 | 1.25 | | | | | | | | ⁸ Al |
| Propene | 0.0984 | <u>J</u> | 0.0932 | 0.400 | | | | | | | | ⁹ Sc |
| Styrene | U | | 0.0465 | 0.200 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | U | | 0.0576 | 0.200 | | | | | | | | |
| Tetrachloroethylene | U | | 0.0497 | 0.200 | | | | | | | | |
| Tetrahydrofuran | U | | 0.0508 | 0.200 | | | | | | | | |
| Toluene | U | | 0.0499 | 0.200 | | | | | | | | |
| 1,2,4-Trichlorobenzene | U | | 0.148 | 0.630 | | | | | | | | |
| 1,1,1-Trichloroethane | U | | 0.0665 | 0.200 | | | | | | | | |
| 1,1,2-Trichloroethane | U | | 0.0287 | 0.200 | | | | | | | | |
| Trichloroethylene | U | | 0.0545 | 0.200 | | | | | | | | |
| 1,2,4-Trimethylbenzene | U | | 0.0483 | 0.200 | | | | | | | | |
| 1,3,5-Trimethylbenzene | U | | 0.0631 | 0.200 | | | | | | | | |
| 2,2,4-Trimethylpentane | U | | 0.0456 | 0.200 | | | | | | | | |
| Vinyl chloride | U | | 0.0457 | 0.200 | | | | | | | | |
| Vinyl Bromide | U | | 0.0727 | 0.200 | | | | | | | | |
| Vinyl acetate | U | | 0.0639 | 0.200 | | | | | | | | |
| m&p-Xylene | U | | 0.0946 | 0.400 | | | | | | | | |
| o-Xylene | U | | 0.0633 | 0.200 | | | | | | | | |
| Ethanol | U | | 0.0832 | 0.630 | | | | | | | | |
| 1,1-Difluoroethane | U | | 0.0256 | 0.200 | | | | | | | | |
| (S) 1,4-Bromofluorobenzene | 92.9 | | | 60.0-140 | | | | | | | | |

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

(LCS) R3315135-1 06/02/18 02:41 • (LCSD) R3315135-2 06/02/18 03:26

| Analyte | Spike Amount ppbv | LCS Result ppbv | LCSD Result ppbv | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|-------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Ethanol | 3.75 | 2.96 | 3.30 | 78.9 | 88.0 | 52.0-158 | | | 10.9 | 25 |
| Propene | 3.75 | 3.46 | 3.58 | 92.2 | 95.4 | 54.0-155 | | | 3.45 | 25 |
| Dichlorodifluoromethane | 3.75 | 3.53 | 3.65 | 94.0 | 97.3 | 69.0-143 | | | 3.39 | 25 |
| 1,2-Dichlorotetrafluoroethane | 3.75 | 3.69 | 3.69 | 98.5 | 98.3 | 70.0-130 | | | 0.192 | 25 |



L997289-01,02,03,04

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

(LCS) R3315135-1 06/02/18 02:41 • (LCSD) R3315135-2 06/02/18 03:26

| Analyte | Spike Amount ppbv | LCS Result ppbv | LCSD Result ppbv | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Chloromethane | 3.75 | 3.50 | 3.59 | 93.4 | 95.8 | 70.0-130 | | | 2.53 | 25 |
| Vinyl chloride | 3.75 | 3.44 | 3.57 | 91.8 | 95.3 | 70.0-130 | | | 3.69 | 25 |
| 1,3-Butadiene | 3.75 | 3.30 | 3.32 | 88.0 | 88.6 | 70.0-130 | | | 0.685 | 25 |
| Bromomethane | 3.75 | 3.58 | 3.72 | 95.3 | 99.1 | 70.0-130 | | | 3.89 | 25 |
| Chloroethane | 3.75 | 3.70 | 3.76 | 98.8 | 100 | 70.0-130 | | | 1.38 | 25 |
| Trichlorofluoromethane | 3.75 | 3.70 | 3.74 | 98.6 | 99.7 | 70.0-130 | | | 1.06 | 25 |
| 1,1,2-Trichlorotrifluoroethane | 3.75 | 3.69 | 3.73 | 98.3 | 99.4 | 70.0-130 | | | 1.14 | 25 |
| 1,1-Dichloroethene | 3.75 | 3.60 | 3.68 | 96.1 | 98.2 | 70.0-130 | | | 2.19 | 25 |
| 1,1-Dichloroethane | 3.75 | 3.62 | 3.66 | 96.7 | 97.6 | 70.0-130 | | | 0.942 | 25 |
| Acetone | 3.75 | 3.53 | 3.56 | 94.3 | 95.0 | 70.0-130 | | | 0.733 | 25 |
| 2-Propanol | 3.75 | 3.79 | 3.81 | 101 | 102 | 66.0-150 | | | 0.726 | 25 |
| Carbon disulfide | 3.75 | 3.62 | 3.68 | 96.5 | 98.0 | 70.0-130 | | | 1.55 | 25 |
| Methylene Chloride | 3.75 | 3.44 | 3.51 | 91.8 | 93.7 | 70.0-130 | | | 2.05 | 25 |
| MTBE | 3.75 | 3.69 | 3.78 | 98.4 | 101 | 70.0-130 | | | 2.52 | 25 |
| trans-1,2-Dichloroethene | 3.75 | 3.69 | 3.74 | 98.4 | 99.8 | 70.0-130 | | | 1.40 | 25 |
| n-Hexane | 3.75 | 3.69 | 3.72 | 98.5 | 99.1 | 70.0-130 | | | 0.588 | 25 |
| Vinyl acetate | 3.75 | 3.71 | 3.73 | 99.0 | 99.5 | 70.0-130 | | | 0.560 | 25 |
| Methyl Ethyl Ketone | 3.75 | 3.84 | 3.95 | 102 | 105 | 70.0-130 | | | 2.77 | 25 |
| cis-1,2-Dichloroethene | 3.75 | 3.73 | 3.76 | 99.6 | 100 | 70.0-130 | | | 0.632 | 25 |
| Chloroform | 3.75 | 3.67 | 3.71 | 97.8 | 99.0 | 70.0-130 | | | 1.19 | 25 |
| Cyclohexane | 3.75 | 3.75 | 3.80 | 100 | 101 | 70.0-130 | | | 1.32 | 25 |
| 1,1,1-Trichloroethane | 3.75 | 3.71 | 3.76 | 99.0 | 100 | 70.0-130 | | | 1.40 | 25 |
| Carbon tetrachloride | 3.75 | 3.71 | 3.77 | 99.0 | 101 | 70.0-130 | | | 1.53 | 25 |
| Benzene | 3.75 | 3.79 | 3.77 | 101 | 100 | 70.0-130 | | | 0.669 | 25 |
| 1,2-Dichloroethane | 3.75 | 3.56 | 3.57 | 95.0 | 95.3 | 70.0-130 | | | 0.343 | 25 |
| Heptane | 3.75 | 3.64 | 3.64 | 97.0 | 97.1 | 70.0-130 | | | 0.115 | 25 |
| Trichloroethylene | 3.75 | 3.72 | 3.70 | 99.2 | 98.7 | 70.0-130 | | | 0.508 | 25 |
| 1,2-Dichloropropane | 3.75 | 3.66 | 3.66 | 97.5 | 97.6 | 70.0-130 | | | 0.136 | 25 |
| 1,4-Dioxane | 3.75 | 3.90 | 3.90 | 104 | 104 | 70.0-152 | | | 0.128 | 25 |
| Bromodichloromethane | 3.75 | 3.71 | 3.71 | 98.9 | 99.0 | 70.0-130 | | | 0.141 | 25 |
| cis-1,3-Dichloropropene | 3.75 | 3.88 | 3.90 | 103 | 104 | 70.0-130 | | | 0.498 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 3.75 | 3.65 | 3.67 | 97.3 | 98.0 | 70.0-142 | | | 0.678 | 25 |
| Toluene | 3.75 | 3.77 | 3.72 | 100 | 99.3 | 70.0-130 | | | 1.19 | 25 |
| trans-1,3-Dichloropropene | 3.75 | 3.65 | 3.67 | 97.3 | 97.9 | 70.0-130 | | | 0.613 | 25 |
| 1,1,2-Trichloroethane | 3.75 | 3.71 | 3.62 | 99.0 | 96.4 | 70.0-130 | | | 2.62 | 25 |
| Tetrachloroethylene | 3.75 | 3.85 | 3.79 | 103 | 101 | 70.0-130 | | | 1.82 | 25 |
| Methyl Butyl Ketone | 3.75 | 3.47 | 3.55 | 92.5 | 94.7 | 70.0-150 | | | 2.31 | 25 |
| Dibromochloromethane | 3.75 | 3.77 | 3.76 | 100 | 100 | 70.0-130 | | | 0.148 | 25 |
| 1,2-Dibromoethane | 3.75 | 3.75 | 3.70 | 100 | 98.6 | 70.0-130 | | | 1.49 | 25 |
| Chlorobenzene | 3.75 | 3.64 | 3.67 | 97.0 | 97.9 | 70.0-130 | | | 0.881 | 25 |

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) R3315135-1 06/02/18 02:41 • (LCSD) R3315135-2 06/02/18 03:26

| Analyte | Spike Amount ppbv | LCS Result ppbv | LCSD Result ppbv | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Ethylbenzene | 3.75 | 3.79 | 3.84 | 101 | 102 | 70.0-130 | | | 1.16 | 25 |
| m&p-Xylene | 7.50 | 7.66 | 7.81 | 102 | 104 | 70.0-130 | | | 1.99 | 25 |
| o-Xylene | 3.75 | 3.83 | 3.83 | 102 | 102 | 70.0-130 | | | 0.119 | 25 |
| Styrene | 3.75 | 4.02 | 4.03 | 107 | 108 | 70.0-130 | | | 0.312 | 25 |
| Bromoform | 3.75 | 4.11 | 4.11 | 110 | 110 | 70.0-130 | | | 0.0114 | 25 |
| 1,1,2,2-Tetrachloroethane | 3.75 | 3.79 | 3.80 | 101 | 101 | 70.0-130 | | | 0.416 | 25 |
| 4-Ethyltoluene | 3.75 | 3.95 | 3.92 | 105 | 105 | 70.0-130 | | | 0.701 | 25 |
| 1,3,5-Trimethylbenzene | 3.75 | 3.95 | 3.94 | 105 | 105 | 70.0-130 | | | 0.215 | 25 |
| 1,2,4-Trimethylbenzene | 3.75 | 3.92 | 3.86 | 104 | 103 | 70.0-130 | | | 1.48 | 25 |
| 1,3-Dichlorobenzene | 3.75 | 4.08 | 4.12 | 109 | 110 | 70.0-130 | | | 1.02 | 25 |
| 1,4-Dichlorobenzene | 3.75 | 4.26 | 4.25 | 114 | 113 | 70.0-130 | | | 0.213 | 25 |
| Benzyl Chloride | 3.75 | 4.32 | 4.22 | 115 | 113 | 70.0-144 | | | 2.43 | 25 |
| 1,2-Dichlorobenzene | 3.75 | 4.06 | 4.03 | 108 | 107 | 70.0-130 | | | 0.871 | 25 |
| 1,2,4-Trichlorobenzene | 3.75 | 4.98 | 5.11 | 133 | 136 | 70.0-155 | | | 2.52 | 25 |
| Hexachloro-1,3-butadiene | 3.75 | 4.29 | 4.33 | 114 | 116 | 70.0-145 | | | 1.00 | 25 |
| Naphthalene | 3.75 | 4.86 | 4.93 | 130 | 131 | 70.0-155 | | | 1.29 | 25 |
| Allyl Chloride | 3.75 | 3.59 | 3.67 | 95.7 | 97.9 | 70.0-130 | | | 2.33 | 25 |
| 2-Chlorotoluene | 3.75 | 4.00 | 4.03 | 107 | 107 | 70.0-130 | | | 0.597 | 25 |
| Methyl Methacrylate | 3.75 | 3.63 | 3.68 | 96.8 | 98.2 | 70.0-130 | | | 1.41 | 25 |
| Tetrahydrofuran | 3.75 | 3.59 | 3.67 | 95.8 | 97.9 | 70.0-140 | | | 2.15 | 25 |
| 2,2,4-Trimethylpentane | 3.75 | 3.67 | 3.66 | 97.7 | 97.5 | 70.0-130 | | | 0.277 | 25 |
| Vinyl Bromide | 3.75 | 3.78 | 3.82 | 101 | 102 | 70.0-130 | | | 1.11 | 25 |
| Isopropylbenzene | 3.75 | 3.87 | 3.89 | 103 | 104 | 70.0-130 | | | 0.376 | 25 |
| 1,1-Difluoroethane | 3.75 | 3.64 | 3.89 | 97.2 | 104 | 70.0-130 | | | 6.48 | 25 |
| (S) 1,4-Bromofluorobenzene | | | | 101 | 101 | 60.0-140 | | | | |

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L997289-01,02,03

Method Blank (MB)

(MB) R3315152-3 06/04/18 10:33

| Analyte | MB Result ppbv | <u>MB Qualifier</u> | MB MDL ppbv | MB RDL ppbv |
|----------------------------|-------------------|---------------------|----------------|----------------|
| n-Hexane | U | | 0.0457 | 0.200 |
| Propene | U | | 0.0932 | 0.400 |
| (S) 1,4-Bromofluorobenzene | 90.2 | | | 60.0-140 |

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

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

(LCS) R3315152-1 06/04/18 09:10 • (LCSD) R3315152-2 06/04/18 09:51

| Analyte | Spike Amount ppbv | LCS Result ppbv | LCSD Result ppbv | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Propene | 3.75 | 2.68 | 2.82 | 71.5 | 75.2 | 54.0-155 | | | 5.03 | 25 |
| n-Hexane | 3.75 | 2.94 | 2.95 | 78.5 | 78.7 | 70.0-130 | | | 0.283 | 25 |
| (S) 1,4-Bromofluorobenzene | | | 91.7 | 92.2 | | 60.0-140 | | | | |



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

| | | |
|------------------------------|--|-----------------|
| MDL | Method Detection Limit. | ¹ Cp |
| ND | Not detected at the Reporting Limit (or MDL where applicable). | ² Tc |
| RDL | Reported Detection Limit. | ³ Ss |
| Rec. | Recovery. | ⁴ Cn |
| RPD | Relative Percent Difference. | ⁵ Sr |
| SDG | Sample Delivery Group. | ⁶ Qc |
| (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. | ⁷ GI |
| U | Not detected at the Reporting Limit (or MDL where applicable). | ⁸ AI |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. | ⁹ SC |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. | |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. | |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. | |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. | |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. | |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. | |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. | |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. | |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. | |

| Qualifier | Description |
|-----------|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |



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 |
| Alaska | 17-026 |
| Arizona | AZ0612 |
| Arkansas | 88-0469 |
| California | 2932 |
| Colorado | TN00003 |
| Connecticut | PH-0197 |
| Florida | E87487 |
| Georgia | NELAP |
| Georgia ¹ | 923 |
| Idaho | TN00003 |
| Illinois | 200008 |
| Indiana | C-TN-01 |
| Iowa | 364 |
| Kansas | E-10277 |
| Kentucky ¹⁶ | 90010 |
| Kentucky ² | 16 |
| Louisiana | AI30792 |
| Louisiana ¹ | LA180010 |
| Maine | TN0002 |
| Maryland | 324 |
| Massachusetts | M-TN003 |
| Michigan | 9958 |
| Minnesota | 047-999-395 |
| Mississippi | TN00003 |
| Missouri | 340 |
| Montana | CERT0086 |

| | |
|-----------------------------|-------------------|
| Nebraska | NE-OS-15-05 |
| Nevada | TN-03-2002-34 |
| New Hampshire | 2975 |
| New Jersey-NELAP | TN002 |
| New Mexico ¹ | n/a |
| New York | 11742 |
| North Carolina | Env375 |
| North Carolina ¹ | DW21704 |
| North Carolina ³ | 41 |
| North Dakota | R-140 |
| Ohio-VAP | CL0069 |
| Oklahoma | 9915 |
| Oregon | TN200002 |
| Pennsylvania | 68-02979 |
| Rhode Island | LA000356 |
| South Carolina | 84004 |
| South Dakota | n/a |
| Tennessee ¹⁴ | 2006 |
| Texas | T 104704245-17-14 |
| Texas ⁵ | LAB0152 |
| Utah | TN00003 |
| Vermont | VT2006 |
| Virginia | 460132 |
| Washington | C847 |
| West Virginia | 233 |
| Wisconsin | 9980939910 |
| Wyoming | A2LA |

Third Party Federal Accreditations

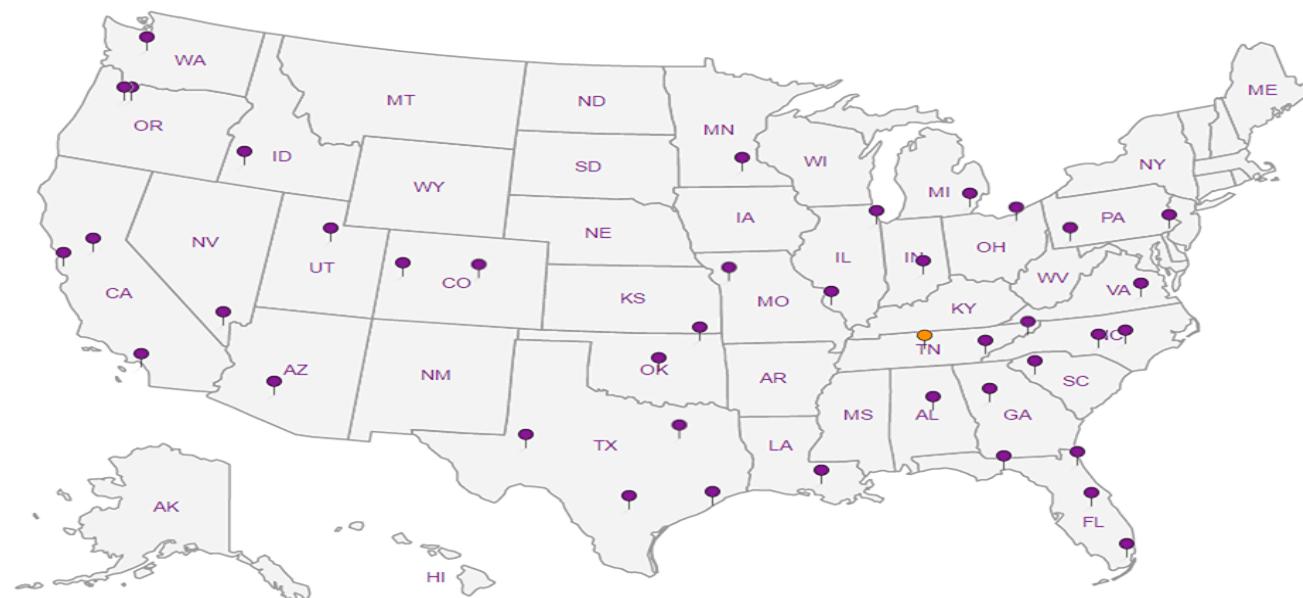
| | |
|-------------------------------|---------|
| A2LA – ISO 17025 | 1461.01 |
| A2LA – ISO 17025 ⁵ | 1461.02 |
| Canada | 1461.01 |
| EPA-Crypto | TN00003 |

| | |
|--------------------|---------------|
| AIHA-LAP,LLC EMLAP | 100789 |
| DOD | 1461.01 |
| USDA | P330-15-00234 |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ 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.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

| AEI Consultants - CA 2500 Camino Diablo Walnut Creek, CA 94597 | | Billing Information: Accounts Payable- Jeremy Smith 2500 Camino Diablo Walnut Creek, CA 94597 | | Pres Chk | Analysis / Container / Preservative | | | | | | Chain of Custody | Page ____ of ____ | | |
|--|--|--|-------------------------|----------------------------------|-------------------------------------|---------------------|-------------------------------|-------------------|---------------------|--|------------------|--|-----|--|
| Report to: Jacqueline Day | | Email To: jday@aeiconsultants.com; tyerkes@aeiconsultants.com | | | | | | | | | | | | |
| Project Yolanda AVE. Description: | | City/State Collected: SANTA ROSA, CA | | | | | | | | | | | | |
| Phone: 925-746-6000 Fax: | Client Project # 370046 | Lab Project # 387946 AEICONWCCA-5500099 | P.O. # 160638 | | | | | | | | | | | |
| Collected by (print): NINA Abb/ahian | Site/Facility ID # | Quote # | | | | | | | | | | | | |
| Collected by (signature): <i>[Signature]</i> | Rush? (Lab MUST Be Notified) <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day | Date Results Needed | No. of Cntrs | | | | | | | | | | | |
| Packed on Ice <input checked="" type="checkbox"/> Y | | | | | | | | | | | | | | |
| Sample ID | TN1101 / Final Sample | Matrix * | Can't Return | Date | Time | TO-15, Helium Summa | | | | | | | | |
| SV-1 | 30/15 | Air | 5205 | 5/25/18 | 1136 | 1 | X | | | | | | -01 | |
| SV-2 | 30/15 | Air | 6563 | 5/25/18 | 1218 | 1 | X | | | | | | -02 | |
| SV-3 | 26/15 | Air | 6184 | 5/25/18 | 1052 | 1 | X | | | | | | -03 | |
| SV-4 | 29.5/5 | Air | 5170 | 5/25/18 | 1243 | 1 | X | | | | | | -04 | |
| | | Air | 5170 | 5/26/18 | | 1 | X | 5/26/18 | | | | | | |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____ | | Remarks: Samples returned via: UPS FedEx Courier _____ | | | | | | pH _____ | Temp _____ | Flow _____ | Other _____ | Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | |
| Relinquished by : (Signature) | | Date: | Time: | Received by: (Signature) | | | Trip Blank Received: Yes / No | | HCl / MeOH | | | | | |
| Relinquished by : (Signature) | | Date: | Time: | Received by: (Signature) | | | Temp: <i>Amb</i> | "C | Bottles Received: 4 | If preservation required by Login: Date/Time | | | | |
| Relinquished by : (Signature) | | Date: | Time: | Received for lab by: (Signature) | | | Date: <i>5/26/18</i> | Time: <i>0845</i> | Hold: | | | Condition: NCF / <input checked="" type="checkbox"/> | | |

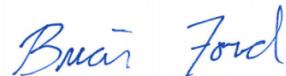
June 14, 2018

AEI Consultants - CA

Sample Delivery Group: L999812
Samples Received: 05/26/2018
Project Number: 387046
Description:

Report To: Jacqueline Day
2500 Camino Diablo
Walnut Creek, CA 94597

Entire Report Reviewed By:



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.



| | | |
|---|-----------|-------------|
| Cp: Cover Page | 1 | 1 Cp |
| Tc: Table of Contents | 2 | 2 Tc |
| Ss: Sample Summary | 3 | 3 Ss |
| Cn: Case Narrative | 5 | 4 Cn |
| Sr: Sample Results | 6 | 5 Sr |
| SB-5A 0.5 L999812-01 | 6 | 6 Qc |
| SB-5A 2 L999812-02 | 7 | 7 GI |
| SB-5B 0.5 L999812-03 | 8 | 8 Al |
| SB-5B 2 L999812-04 | 9 | 9 Sc |
| SB-5C 0.5 L999812-05 | 10 | |
| SB-5C 2 L999812-06 | 11 | |
| SB-5D 0.5 L999812-07 | 12 | |
| SB-5D 2 L999812-08 | 13 | |
| Qc: Quality Control Summary | 14 | |
| Total Solids by Method 2540 G-2011 | 14 | |
| Pesticides (GC) by Method 8081 | 16 | |
| Gl: Glossary of Terms | 18 | |
| Al: Accreditations & Locations | 19 | |
| Sc: Sample Chain of Custody | 20 | |

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



| | | | | | | |
|------------------------------------|-----------|----------|--------------------------|-------------------------------|---------------------------------------|--------------------------------------|
| | | | | Collected by Tamara Yerkes | Collected date/time 05/25/18 10:20 | Received date/time 05/26/18 08:45 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | |
| Total Solids by Method 2540 G-2011 | WG1121575 | 1 | 06/09/18 07:31 | 06/09/18 07:42 | KDW | ¹ Cp |
| Pesticides (GC) by Method 8081 | WG1121569 | 1 | 06/08/18 07:55 | 06/09/18 08:01 | VKS | ² Tc |
| Pesticides (GC) by Method 8081 | WG1121569 | 10 | 06/08/18 07:55 | 06/09/18 12:08 | VKS | ³ Ss |
| | | | | Collected by Tamara Yerkes | Collected date/time 05/25/18 10:23 | Received date/time 05/26/18 08:45 |
| SB-5A 2 L999812-02 Solid | | | | | | |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | |
| Total Solids by Method 2540 G-2011 | WG1121575 | 1 | 06/09/18 07:31 | 06/09/18 07:42 | KDW | ⁴ Cn |
| Pesticides (GC) by Method 8081 | WG1121569 | 1 | 06/08/18 07:55 | 06/09/18 08:39 | VKS | ⁵ Sr |
| | | | | Collected by Tamara Yerkes | Collected date/time 05/25/18 10:15 | Received date/time 05/26/18 08:45 |
| SB-5B 0.5 L999812-03 Solid | | | | | | |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | |
| Total Solids by Method 2540 G-2011 | WG1121575 | 1 | 06/09/18 07:31 | 06/09/18 07:42 | KDW | ⁶ Qc |
| Pesticides (GC) by Method 8081 | WG1121569 | 1 | 06/08/18 07:55 | 06/09/18 08:51 | VKS | ⁷ Gl |
| | | | | Collected by Tamara Yerkes | Collected date/time 05/25/18 10:18 | Received date/time 05/26/18 08:45 |
| SB-5B 2 L999812-04 Solid | | | | | | |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | |
| Total Solids by Method 2540 G-2011 | WG1121575 | 1 | 06/09/18 07:31 | 06/09/18 07:42 | KDW | ⁸ Al |
| Pesticides (GC) by Method 8081 | WG1121569 | 1 | 06/08/18 07:55 | 06/09/18 09:04 | VKS | ⁹ Sc |
| | | | | Collected by Tamara Yerkes | Collected date/time 05/25/18 11:41 | Received date/time 05/26/18 08:45 |
| SB-5C 0.5 L999812-05 Solid | | | | | | |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | |
| Total Solids by Method 2540 G-2011 | WG1121575 | 1 | 06/09/18 07:31 | 06/09/18 07:42 | KDW | |
| Pesticides (GC) by Method 8081 | WG1121569 | 1 | 06/08/18 07:55 | 06/09/18 09:16 | VKS | |
| | | | | Collected by Tamara Yerkes | Collected date/time 05/25/18 11:43 | Received date/time 05/26/18 08:45 |
| SB-5C 2 L999812-06 Solid | | | | | | |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | |
| Total Solids by Method 2540 G-2011 | WG1121575 | 1 | 06/09/18 07:31 | 06/09/18 07:42 | KDW | |
| Pesticides (GC) by Method 8081 | WG1121569 | 1 | 06/08/18 07:55 | 06/09/18 09:29 | VKS | |
| | | | | Collected by Tamara Yerkes | Collected date/time 05/25/18 11:46 | Received date/time 05/26/18 08:45 |
| SB-5D 0.5 L999812-07 Solid | | | | | | |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | |
| Total Solids by Method 2540 G-2011 | WG1118299 | 1 | 06/01/18 08:54 | 06/01/18 09:08 | MAS | |
| Pesticides (GC) by Method 8081 | WG1121569 | 1 | 06/08/18 07:55 | 06/09/18 09:41 | VKS | |

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



SB-5D 2 L999812-08 Solid

| | | | Collected by Tamara Yerkes | Collected date/time 05/25/18 11:48 | Received date/time 05/26/18 08:45 |
|------------------------------------|-----------|----------|-------------------------------|---------------------------------------|--------------------------------------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
| Total Solids by Method 2540 G-2011 | WG1121575 | 1 | 06/09/18 07:31 | 06/09/18 07:42 | KDW |
| Pesticides (GC) by Method 8081 | WG1121569 | 1 | 06/08/18 07:55 | 06/09/18 09:54 | VKS |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All 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

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 96.3 | | 1 | 06/09/2018 07:42 | WG1121575 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Pesticides (GC) by Method 8081

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|--------------------------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Aldrin | U | | 0.000242 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Alpha BHC | U | | 0.000200 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Beta BHC | U | | 0.000315 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Delta BHC | U | | 0.000157 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Gamma BHC | U | | 0.000254 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| 4,4-DDD | U | | 0.000170 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| 4,4-DDE | U | | 0.000171 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| 4,4-DDT | 0.0290 | | 0.000276 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Dieldrin | U | J5 | 0.0000924 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Endosulfan I | U | | 0.000222 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Endosulfan II | U | | 0.000239 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Endosulfan sulfate | U | | 0.000176 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Endrin | U | | 0.000227 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Endrin aldehyde | U | | 0.000251 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Endrin ketone | U | | 0.000165 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Heptachlor | U | | 0.000105 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Heptachlor epoxide | U | | 0.000392 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Hexachlorobenzene | U | | 0.000233 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Methoxychlor | U | | 0.000275 | 0.0208 | 1 | 06/09/2018 08:01 | WG1121569 |
| Chlordane | 8.70 | | 0.405 | 2.08 | 10 | 06/09/2018 12:08 | WG1121569 |
| Toxaphene | U | | 0.0374 | 0.415 | 1 | 06/09/2018 08:01 | WG1121569 |
| (S) Decachlorobiphenyl | 72.4 | | | 10.0-148 | | 06/09/2018 08:01 | WG1121569 |
| (S) Tetrachloro-m-xylene | 78.2 | | | 21.0-146 | | 06/09/2018 08:01 | WG1121569 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 86.6 | | 1 | 06/09/2018 07:42 | WG1121575 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Pesticides (GC) by Method 8081

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|--------------------------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Aldrin | U | | 0.000269 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Alpha BHC | U | | 0.000223 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Beta BHC | U | | 0.000350 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Delta BHC | U | | 0.000174 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Gamma BHC | U | | 0.000283 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| 4,4-DDD | U | | 0.000189 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| 4,4-DDE | U | | 0.000190 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| 4,4-DDT | U | | 0.000307 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Dieldrin | U | | 0.000103 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Endosulfan I | U | | 0.000247 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Endosulfan II | U | | 0.000266 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Endosulfan sulfate | U | | 0.000196 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Endrin | U | | 0.000253 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Endrin aldehyde | U | | 0.000279 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Endrin ketone | U | | 0.000184 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Heptachlor | U | | 0.000117 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Heptachlor epoxide | U | | 0.000436 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Hexachlorobenzene | U | | 0.000259 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Methoxychlor | U | | 0.000306 | 0.0231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Chlordane | U | | 0.0450 | 0.231 | 1 | 06/09/2018 08:39 | WG1121569 |
| Toxaphene | U | | 0.0416 | 0.462 | 1 | 06/09/2018 08:39 | WG1121569 |
| (S) Decachlorobiphenyl | 42.6 | | | 10.0-148 | | 06/09/2018 08:39 | WG1121569 |
| (S) Tetrachloro-m-xylene | 68.5 | | | 21.0-146 | | 06/09/2018 08:39 | WG1121569 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 87.7 | | 1 | 06/09/2018 07:42 | WG1121575 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Pesticides (GC) by Method 8081

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|--------------------------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Aldrin | U | | 0.000266 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Alpha BHC | U | | 0.000220 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Beta BHC | U | | 0.000345 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Delta BHC | U | | 0.000172 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Gamma BHC | U | | 0.000279 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| 4,4-DDD | U | | 0.000187 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| 4,4-DDE | U | | 0.000188 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| 4,4-DDT | 0.00354 | J | 0.000303 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Dieldrin | U | | 0.000101 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Endosulfan I | U | | 0.000244 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Endosulfan II | U | | 0.000262 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Endosulfan sulfate | U | | 0.000194 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Endrin | U | | 0.000250 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Endrin aldehyde | U | | 0.000276 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Endrin ketone | U | | 0.000181 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Heptachlor | U | | 0.000115 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Heptachlor epoxide | U | | 0.000431 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Hexachlorobenzene | U | | 0.000255 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Methoxychlor | U | | 0.000302 | 0.0228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Chlordane | 0.114 | J | 0.0445 | 0.228 | 1 | 06/09/2018 08:51 | WG1121569 |
| Toxaphene | U | | 0.0410 | 0.456 | 1 | 06/09/2018 08:51 | WG1121569 |
| (S) Decachlorobiphenyl | 53.6 | | | 10.0-148 | | 06/09/2018 08:51 | WG1121569 |
| (S) Tetrachloro-m-xylene | 70.4 | | | 21.0-146 | | 06/09/2018 08:51 | WG1121569 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 85.3 | | 1 | 06/09/2018 07:42 | WG1121575 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Pesticides (GC) by Method 8081

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|--------------------------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Aldrin | U | | 0.000273 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Alpha BHC | U | | 0.000226 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Beta BHC | U | | 0.000355 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Delta BHC | U | | 0.000177 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Gamma BHC | U | | 0.000287 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| 4,4-DDD | U | | 0.000192 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| 4,4-DDE | U | | 0.000193 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| 4,4-DDT | U | | 0.000312 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Dieldrin | U | | 0.000104 | 0.00234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Endosulfan I | U | | 0.000251 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Endosulfan II | U | | 0.000270 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Endosulfan sulfate | U | | 0.000199 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Endrin | U | | 0.000257 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Endrin aldehyde | U | | 0.000284 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Endrin ketone | U | | 0.000186 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Heptachlor | U | | 0.000118 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Heptachlor epoxide | U | | 0.000443 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Hexachlorobenzene | U | | 0.000263 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Methoxychlor | U | | 0.000311 | 0.0234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Chlordane | U | | 0.0457 | 0.234 | 1 | 06/09/2018 09:04 | WG1121569 |
| Toxaphene | U | | 0.0422 | 0.469 | 1 | 06/09/2018 09:04 | WG1121569 |
| (S) Decachlorobiphenyl | 52.2 | | | 10.0-148 | | 06/09/2018 09:04 | WG1121569 |
| (S) Tetrachloro-m-xylene | 77.2 | | | 21.0-146 | | 06/09/2018 09:04 | WG1121569 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 90.6 | | 1 | 06/09/2018 07:42 | WG1121575 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Pesticides (GC) by Method 8081

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|--------------------------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Aldrin | U | | 0.000257 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Alpha BHC | U | | 0.000213 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Beta BHC | U | | 0.000335 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Delta BHC | U | | 0.000167 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Gamma BHC | U | | 0.000271 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| 4,4-DDD | U | | 0.000181 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| 4,4-DDE | U | | 0.000182 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| 4,4-DDT | 0.00132 | J | 0.000294 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Dieldrin | U | | 0.0000983 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Endosulfan I | U | | 0.000236 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Endosulfan II | U | | 0.000254 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Endosulfan sulfate | U | | 0.000188 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Endrin | U | | 0.000242 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Endrin aldehyde | U | | 0.000267 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Endrin ketone | U | | 0.000176 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Heptachlor | U | | 0.000112 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Heptachlor epoxide | U | | 0.000417 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Hexachlorobenzene | U | | 0.000247 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Methoxychlor | U | | 0.000293 | 0.0221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Chlordane | 0.116 | J | 0.0431 | 0.221 | 1 | 06/09/2018 09:16 | WG1121569 |
| Toxaphene | U | | 0.0397 | 0.442 | 1 | 06/09/2018 09:16 | WG1121569 |
| (S) Decachlorobiphenyl | 56.3 | | | 10.0-148 | | 06/09/2018 09:16 | WG1121569 |
| (S) Tetrachloro-m-xylene | 76.3 | | | 21.0-146 | | 06/09/2018 09:16 | WG1121569 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 86.1 | | 1 | 06/09/2018 07:42 | WG1121575 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Pesticides (GC) by Method 8081

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|--------------------------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Aldrin | U | | 0.000271 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Alpha BHC | U | | 0.000224 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Beta BHC | U | | 0.000352 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Delta BHC | U | | 0.000175 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Gamma BHC | U | | 0.000284 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| 4,4-DDD | U | | 0.000190 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| 4,4-DDE | U | | 0.000192 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| 4,4-DDT | U | | 0.000309 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Dieldrin | U | | 0.000103 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Endosulfan I | U | | 0.000248 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Endosulfan II | U | | 0.000267 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Endosulfan sulfate | U | | 0.000197 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Endrin | U | | 0.000254 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Endrin aldehyde | U | | 0.000281 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Endrin ketone | U | | 0.000185 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Heptachlor | U | | 0.000117 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Heptachlor epoxide | U | | 0.000439 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Hexachlorobenzene | U | | 0.000260 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Methoxychlor | U | | 0.000308 | 0.0232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Chlordane | U | | 0.0453 | 0.232 | 1 | 06/09/2018 09:29 | WG1121569 |
| Toxaphene | U | | 0.0418 | 0.464 | 1 | 06/09/2018 09:29 | WG1121569 |
| (S) Decachlorobiphenyl | 44.3 | | | 10.0-148 | | 06/09/2018 09:29 | WG1121569 |
| (S) Tetrachloro-m-xylene | 62.3 | | | 21.0-146 | | 06/09/2018 09:29 | WG1121569 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 93.1 | | 1 | 06/01/2018 09:08 | WG1118299 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Pesticides (GC) by Method 8081

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|--------------------------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Aldrin | U | | 0.000250 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Alpha BHC | U | | 0.000207 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Beta BHC | U | | 0.000326 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Delta BHC | U | | 0.000162 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Gamma BHC | U | | 0.000263 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| 4,4-DDD | 0.00105 | J | 0.000176 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| 4,4-DDE | U | | 0.000177 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| 4,4-DDT | 0.00258 | J | 0.000286 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Dieldrin | U | | 0.0000956 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Endosulfan I | U | | 0.000230 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Endosulfan II | U | | 0.000247 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Endosulfan sulfate | U | | 0.000183 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Endrin | U | | 0.000235 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Endrin aldehyde | U | | 0.000260 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Endrin ketone | U | | 0.000171 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Heptachlor | U | | 0.000109 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Heptachlor epoxide | U | | 0.000406 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Hexachlorobenzene | U | | 0.000241 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Methoxychlor | U | | 0.000285 | 0.0215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Chlordane | U | | 0.0419 | 0.215 | 1 | 06/09/2018 09:41 | WG1121569 |
| Toxaphene | U | | 0.0387 | 0.430 | 1 | 06/09/2018 09:41 | WG1121569 |
| (S) Decachlorobiphenyl | 61.3 | | | 10.0-148 | | 06/09/2018 09:41 | WG1121569 |
| (S) Tetrachloro-m-xylene | 81.3 | | | 21.0-146 | | 06/09/2018 09:41 | WG1121569 |



Total Solids by Method 2540 G-2011

| Analyte | Result % | <u>Qualifier</u> | Dilution | Analysis date / time | <u>Batch</u> |
|--------------|-------------|------------------|----------|-------------------------|---------------------------|
| Total Solids | 87.7 | | 1 | 06/09/2018 07:42 | WG1121575 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Pesticides (GC) by Method 8081

| Analyte | Result (dry) mg/kg | <u>Qualifier</u> | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|--------------------------|-----------------------|------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Aldrin | U | | 0.000266 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Alpha BHC | U | | 0.000220 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Beta BHC | U | | 0.000346 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Delta BHC | U | | 0.000172 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Gamma BHC | U | | 0.000279 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| 4,4-DDD | U | | 0.000187 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| 4,4-DDE | U | | 0.000188 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| 4,4-DDT | U | | 0.000303 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Dieldrin | U | | 0.000102 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Endosulfan I | U | | 0.000244 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Endosulfan II | U | | 0.000262 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Endosulfan sulfate | U | | 0.000194 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Endrin | U | | 0.000250 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Endrin aldehyde | U | | 0.000276 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Endrin ketone | U | | 0.000181 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Heptachlor | U | | 0.000115 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Heptachlor epoxide | U | | 0.000431 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Hexachlorobenzene | U | | 0.000256 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Methoxychlor | U | | 0.000302 | 0.0228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Chlordane | U | | 0.0445 | 0.228 | 1 | 06/09/2018 09:54 | WG1121569 |
| Toxaphene | U | | 0.0411 | 0.456 | 1 | 06/09/2018 09:54 | WG1121569 |
| (S) Decachlorobiphenyl | 57.5 | | | 10.0-148 | | 06/09/2018 09:54 | WG1121569 |
| (S) Tetrachloro-m-xylene | 78.6 | | | 21.0-146 | | 06/09/2018 09:54 | WG1121569 |



Method Blank (MB)

(MB) R3315064-1 06/01/18 09:08

| | MB Result | <u>MB Qualifier</u> | MB MDL | MB RDL |
|--------------|-----------|---------------------|--------|--------|
| Analyte | % | | % | % |
| Total Solids | 0.00100 | | | |

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L997491-07 Original Sample (OS) • Duplicate (DUP)

(OS) L997491-07 06/01/18 09:08 • (DUP) R3315064-3 06/01/18 09:08

| | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte | % | % | | % | | % |
| Total Solids | 94.5 | 94.5 | 1 | 0.00191 | | 5 |

Laboratory Control Sample (LCS)

(LCS) R3315064-2 06/01/18 09:08

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

⁷Gl⁸Al⁹Sc



Method Blank (MB)

(MB) R3316858-1 06/09/18 07:42

| Analyte | MB Result % | <u>MB Qualifier</u> | MB MDL % | MB RDL % |
|--------------|----------------|---------------------|-------------|-------------|
| Total Solids | 0.00100 | | | |

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L999812-01 Original Sample (OS) • Duplicate (DUP)

(OS) L999812-01 06/09/18 07:42 • (DUP) R3316858-3 06/09/18 07:42

| Analyte | Original Result % | DUP Result % | Dilution % | DUP RPD % | <u>DUP Qualifier</u> | DUP RPD Limits % |
|--------------|----------------------|-----------------|---------------|--------------|----------------------|------------------------|
| Total Solids | 96.3 | 95.5 | 1 | 0.834 | | 5 |

Laboratory Control Sample (LCS)

(LCS) R3316858-2 06/09/18 07:42

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

⁹Sc

QUALITY CONTROL SUMMARY



L999812-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3317658-1 06/09/18 07:23

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg | | | | | | | | |
|--------------------------|--------------------|--------------|-----------------|-----------------|--|--|--|--|--|--|--|--|
| Aldrin | U | | 0.000233 | 0.0200 | | | | | | | | |
| Alpha BHC | U | | 0.000193 | 0.0200 | | | | | | | | |
| Beta BHC | U | | 0.000303 | 0.0200 | | | | | | | | |
| Delta BHC | U | | 0.000151 | 0.0200 | | | | | | | | |
| Gamma BHC | U | | 0.000245 | 0.0200 | | | | | | | | |
| 4,4-DDD | U | | 0.000164 | 0.0200 | | | | | | | | |
| 4,4-DDE | U | | 0.000165 | 0.0200 | | | | | | | | |
| 4,4-DDT | U | | 0.000266 | 0.0200 | | | | | | | | |
| Dieldrin | U | | 0.0000890 | 0.00200 | | | | | | | | |
| Endosulfan I | U | | 0.000214 | 0.0200 | | | | | | | | |
| Endosulfan II | U | | 0.000230 | 0.0200 | | | | | | | | |
| Endosulfan sulfate | U | | 0.000170 | 0.0200 | | | | | | | | |
| Endrin | U | | 0.000219 | 0.0200 | | | | | | | | |
| Endrin aldehyde | U | | 0.000242 | 0.0200 | | | | | | | | |
| Endrin ketone | U | | 0.000159 | 0.0200 | | | | | | | | |
| Heptachlor | U | | 0.000101 | 0.0200 | | | | | | | | |
| Heptachlor epoxide | U | | 0.000378 | 0.0200 | | | | | | | | |
| Hexachlorobenzene | U | | 0.000224 | 0.0200 | | | | | | | | |
| Methoxychlor | U | | 0.000265 | 0.0200 | | | | | | | | |
| Chlordane | U | | 0.0390 | 0.200 | | | | | | | | |
| Toxaphene | U | | 0.0360 | 0.400 | | | | | | | | |
| (S) Decachlorobiphenyl | 67.2 | | | 10.0-148 | | | | | | | | |
| (S) Tetrachloro-m-xylene | 74.4 | | | 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) R3317658-2 06/09/18 07:36 • (LCSD) R3317658-3 06/09/18 07:49

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|--------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|------|------------|
| Aldrin | 0.0667 | 0.0512 | 0.0490 | 76.8 | 73.5 | 55.0-137 | | | 4.38 | 29 |
| Alpha BHC | 0.0667 | 0.0523 | 0.0499 | 78.4 | 74.9 | 55.0-136 | | | 4.58 | 28 |
| Beta BHC | 0.0667 | 0.0467 | 0.0449 | 70.0 | 67.3 | 53.0-133 | | | 3.94 | 28 |
| Delta BHC | 0.0667 | 0.0517 | 0.0495 | 77.5 | 74.2 | 53.0-139 | | | 4.37 | 29 |
| Gamma BHC | 0.0667 | 0.0502 | 0.0482 | 75.3 | 72.2 | 54.0-136 | | | 4.17 | 29 |
| 4,4-DDD | 0.0667 | 0.0518 | 0.0492 | 77.7 | 73.7 | 51.0-141 | | | 5.25 | 29 |
| 4,4-DDE | 0.0667 | 0.0492 | 0.0470 | 73.8 | 70.5 | 53.0-142 | | | 4.62 | 30 |
| 4,4-DDT | 0.0667 | 0.0440 | 0.0425 | 65.9 | 63.8 | 47.0-143 | | | 3.31 | 30 |
| Dieldrin | 0.0667 | 0.0510 | 0.0487 | 76.5 | 73.0 | 54.0-141 | | | 4.68 | 29 |
| Endosulfan I | 0.0667 | 0.0497 | 0.0474 | 74.5 | 71.1 | 54.0-141 | | | 4.61 | 29 |

ACCOUNT:

AEI Consultants - CA

PROJECT:

387046

SDG:

L999812

DATE/TIME:

06/14/18 10:02

PAGE:

16 of 21



L999812-01,02,03,04,05,06,07,08

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

(LCS) R3317658-2 06/09/18 07:36 • (LCSD) R3317658-3 06/09/18 07:49

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|--------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|------|------------|
| Endosulfan II | 0.0667 | 0.0491 | 0.0470 | 73.6 | 70.5 | 53.0-140 | | | 4.36 | 28 |
| Endosulfan sulfate | 0.0667 | 0.0498 | 0.0475 | 74.7 | 71.3 | 52.0-141 | | | 4.63 | 29 |
| Endrin | 0.0667 | 0.0476 | 0.0456 | 71.4 | 68.4 | 52.0-137 | | | 4.31 | 29 |
| Endrin aldehyde | 0.0667 | 0.0476 | 0.0444 | 71.4 | 66.6 | 30.0-127 | | | 7.06 | 31 |
| Endrin ketone | 0.0667 | 0.0523 | 0.0501 | 78.5 | 75.1 | 51.0-139 | | | 4.36 | 28 |
| Heptachlor | 0.0667 | 0.0495 | 0.0478 | 74.3 | 71.6 | 53.0-144 | | | 3.61 | 29 |
| Heptachlor epoxide | 0.0667 | 0.0502 | 0.0480 | 75.3 | 71.9 | 54.0-137 | | | 4.57 | 28 |
| Hexachlorobenzene | 0.0667 | 0.0478 | 0.0455 | 71.6 | 68.2 | 50.0-135 | | | 4.80 | 28 |
| Methoxychlor | 0.0667 | 0.0445 | 0.0426 | 66.7 | 63.9 | 49.0-145 | | | 4.29 | 29 |
| (S) Decachlorobiphenyl | | | | 68.5 | 63.6 | 10.0-148 | | | | |
| (S) Tetrachloro-m-xylene | | | | 75.0 | 72.6 | 21.0-146 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

L999812-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L999812-01 06/09/18 08:01 • (MS) R3317658-4 06/09/18 08:14 • (MSD) R3317658-5 06/09/18 08:26

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|--------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|-------|------------|
| Aldrin | 0.0692 | U | 0.0608 | 0.0629 | 87.7 | 90.9 | 1 | 19.0-152 | | | 3.55 | 24 |
| Alpha BHC | 0.0692 | U | 0.0581 | 0.0596 | 84.0 | 86.1 | 1 | 39.0-152 | | | 2.50 | 21 |
| Beta BHC | 0.0692 | U | 0.0523 | 0.0527 | 75.5 | 76.1 | 1 | 38.0-150 | | | 0.760 | 20 |
| Delta BHC | 0.0692 | U | 0.0547 | 0.0563 | 79.0 | 81.3 | 1 | 34.0-155 | | | 2.87 | 21 |
| Gamma BHC | 0.0692 | U | 0.0547 | 0.0560 | 79.0 | 80.9 | 1 | 38.0-153 | | | 2.41 | 21 |
| 4,4-DDD | 0.0692 | U | 0.0739 | 0.0762 | 107 | 110 | 1 | 22.0-160 | | | 3.01 | 25 |
| 4,4-DDE | 0.0692 | U | 0.0739 | 0.0773 | 107 | 112 | 1 | 10.0-160 | P | P | 4.51 | 27 |
| 4,4-DDT | 0.0692 | 0.0290 | 0.0835 | 0.0875 | 78.8 | 84.6 | 1 | 10.0-160 | | | 4.66 | 28 |
| Dieldrin | 0.0692 | U | 0.122 | 0.129 | 176 | 186 | 1 | 30.0-158 | J5 | J5 | 5.23 | 25 |
| Endosulfan I | 0.0692 | U | 0.0950 | 0.0989 | 137 | 143 | 1 | 31.0-155 | | | 3.98 | 25 |
| Endosulfan II | 0.0692 | U | 0.0640 | 0.0644 | 92.5 | 93.0 | 1 | 32.0-156 | P | P | 0.607 | 25 |
| Endosulfan sulfate | 0.0692 | U | 0.0609 | 0.0621 | 88.0 | 89.7 | 1 | 31.0-158 | | | 1.93 | 24 |
| Endrin | 0.0692 | U | 0.0745 | 0.0767 | 108 | 111 | 1 | 30.0-149 | | | 2.93 | 25 |
| Endrin aldehyde | 0.0692 | U | 0.0917 | 0.0966 | 132 | 139 | 1 | 20.0-157 | | | 5.18 | 26 |
| Endrin ketone | 0.0692 | U | 0.0690 | 0.0704 | 99.7 | 102 | 1 | 32.0-154 | | | 1.90 | 23 |
| Heptachlor | 0.0692 | U | 0.0583 | 0.0603 | 84.2 | 87.0 | 1 | 18.0-160 | | | 3.37 | 23 |
| Heptachlor epoxide | 0.0692 | U | 0.0651 | 0.0653 | 94.0 | 94.2 | 1 | 31.0-154 | P | P | 0.269 | 25 |
| Hexachlorobenzene | 0.0692 | U | 0.0511 | 0.0531 | 73.8 | 76.6 | 1 | 26.0-146 | | | 3.72 | 21 |
| Methoxychlor | 0.0692 | U | 0.0739 | 0.0776 | 107 | 112 | 1 | 10.0-160 | | | 4.99 | 27 |
| (S) Decachlorobiphenyl | | | | | 70.1 | 73.4 | | 10.0-148 | | | | |
| (S) Tetrachloro-m-xylene | | | | | 76.5 | 82.5 | | 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]. | ¹ Cp |
| MDL | Method Detection Limit. | ² Tc |
| MDL (dry) | Method Detection Limit. | ³ Ss |
| RDL | Reported Detection Limit. | ⁴ Cn |
| RDL (dry) | Reported Detection Limit. | ⁵ Sr |
| Rec. | Recovery. | ⁶ Qc |
| RPD | Relative Percent Difference. | ⁷ GI |
| SDG | Sample Delivery Group. | ⁸ AI |
| (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. | ⁹ SC |
| U | Not detected at the Reporting Limit (or MDL where applicable). | |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. | |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. | |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. | |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. | |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. | |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. | |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. | |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. | |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. | |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. | |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. | |

| Qualifier | Description |
|-----------|--|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| P | RPD between the primary and confirmatory analysis exceeded 40%. |



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 |
| Alaska | 17-026 |
| Arizona | AZ0612 |
| Arkansas | 88-0469 |
| California | 2932 |
| Colorado | TN00003 |
| Connecticut | PH-0197 |
| Florida | E87487 |
| Georgia | NELAP |
| Georgia ¹ | 923 |
| Idaho | TN00003 |
| Illinois | 200008 |
| Indiana | C-TN-01 |
| Iowa | 364 |
| Kansas | E-10277 |
| Kentucky ¹⁶ | 90010 |
| Kentucky ² | 16 |
| Louisiana | AI30792 |
| Louisiana ¹ | LA180010 |
| Maine | TN0002 |
| Maryland | 324 |
| Massachusetts | M-TN003 |
| Michigan | 9958 |
| Minnesota | 047-999-395 |
| Mississippi | TN00003 |
| Missouri | 340 |
| Montana | CERT0086 |

| | |
|-----------------------------|-------------------|
| Nebraska | NE-OS-15-05 |
| Nevada | TN-03-2002-34 |
| New Hampshire | 2975 |
| New Jersey-NELAP | TN002 |
| New Mexico ¹ | n/a |
| New York | 11742 |
| North Carolina | Env375 |
| North Carolina ¹ | DW21704 |
| North Carolina ³ | 41 |
| North Dakota | R-140 |
| Ohio-VAP | CL0069 |
| Oklahoma | 9915 |
| Oregon | TN200002 |
| Pennsylvania | 68-02979 |
| Rhode Island | LA000356 |
| South Carolina | 84004 |
| South Dakota | n/a |
| Tennessee ¹⁴ | 2006 |
| Texas | T 104704245-17-14 |
| Texas ⁵ | LAB0152 |
| Utah | TN00003 |
| Vermont | VT2006 |
| Virginia | 460132 |
| Washington | C847 |
| West Virginia | 233 |
| Wisconsin | 9980939910 |
| Wyoming | A2LA |

Third Party Federal Accreditations

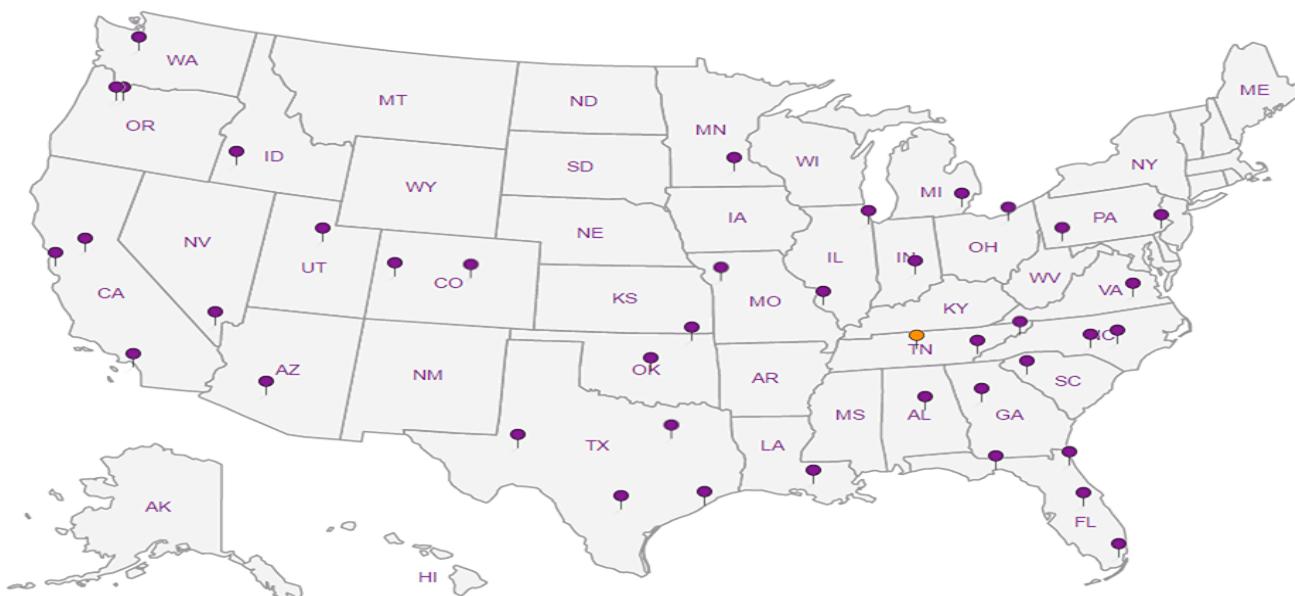
| | |
|-------------------------------|---------|
| A2LA – ISO 17025 | 1461.01 |
| A2LA – ISO 17025 ⁵ | 1461.02 |
| Canada | 1461.01 |
| EPA-Crypto | TN00003 |

| | |
|--------------------|---------------|
| AIHA-LAP,LLC EMLAP | 100789 |
| DOD | 1461.01 |
| USDA | P330-15-00234 |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ 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.



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

| | | | | | | | | | | | | | |
|--|--|---|---|---------------------|---|---|--|--|---|--|------------------|-------------------|---|
| AEI Consultants - CA 2500 Camino Diablo Walnut Creek, CA 94597 | | Billing Information: Accounts Payable - Jeremy Smith 2500 Camino Diablo Walnut Creek, CA 94597 | | Pres Chk | Analysis / Container / Preservative: | | | | | | Chain of Custody | Page ____ of ____ | |
| Report to: Jacqueline Day | | Email To: jday@aeiconsultants.com, junknake@sanleconsultants.com | | | | | | | | | | | L# 777373447187 |
| Project Description: | | City/State Collected: | | | | | | | | | | | 12005 Lebanon Rd Mount Juliet, TN 37123 Phone: 615-758-5858 Phone: 800-747-5859 Fax: 615-758-5859 |
| Phone: 925-746-6000 Fax: | Client Project # 387046 | Lab Project # AEICONWCCA-387046 | | | | | | | | | | | Table # |
| Collected by (print): <i>Taymara Yerkes</i> | Site/Facility ID # | P.O. # 160638 | | | | | | | | | | | Acctnum: AEICONWCCA |
| Collected by (Signature): <i>[Signature]</i> | Rush? (Lab MUST Be Notified) Same Day _____ Five Day _____ Next Day _____ 5 Day (Rush Only) _____ Two Day _____ 10 Day (Rush Only) _____ Three Day _____ | Quote # | | Date Results Needed | No. of Ctrns | | | | | | | | Template: 999812 |
| Immediately Packed on Ice N Y X | | | | | | | | | | | | | Prelogin: |
| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | | | | | | | | TSR: |
| SB-4D | Comp/Grab | SS | 0.5 | 2/25/18 | 1112 | / | X | X | X | | | | PB: |
| SB-4D | | SS | 1112 | 2/25/18 | 1114 | / | | | | | | | Shipped Via: |
| SB-5A | Comp | SS | 0.5 | 2/25/18 | 1020 | / | X | | | | | | Remarks: <i>UV 09-16-13 (1/80)</i> |
| SB-5A | | SS | 1112 | 2/25/18 | 1023 | / | | | | | | | <i>01 Hold</i> |
| SB-5B | Comp | SS | 0.5 | 2/25/18 | 1015 | / | X | | | | | | <i>02 -05-17-20-21</i> |
| SB-5B | | SS | 1112 | 2/25/18 | 1018 | / | | | | | | | <i>03 -05-18-21</i> |
| SB-5C | Comp | SS | 0.5 | 2/25/18 | 1141 | / | X | | | | | | <i>04 Hold</i> |
| SB-5C | | SS | 1112 | 2/25/18 | 1143 | / | | | | | | | <i>05 -05-17-22-23</i> |
| SB-5D | Comp/Grab | SS | 0.5 | 2/25/18 | 1146 | / | X | X | X | | | | <i>06 Hold</i> |
| SB-5D | | SS | 1112 | 2/25/18 | 1148 | / | | | | | | | <i>07-05-10-24-25-20-23-28</i> |
| * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____ | | Remarks: Samples SB-4D and SB-5D composite for OCPs by EPA 8081A, discrete sample for arsenic and lead | | | | | | Sample Receipt Checklist: CDC Seal Present/Intact: <input checked="" type="checkbox"/> <input type="checkbox"/> CDC Signed/Accurate: <input checked="" type="checkbox"/> <input type="checkbox"/> Bottles arrive intact: <input checked="" type="checkbox"/> <input type="checkbox"/> Correct Bottles used: <input checked="" type="checkbox"/> <input type="checkbox"/> Sufficient volume sent: <input checked="" type="checkbox"/> <input type="checkbox"/> If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> <input type="checkbox"/> Preservation Correct/Checked: <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | |
| Samples returned via: UPS FedEx Courier | | Tracking # | | | | | | | | | | | |
| Relinquished by : (Signature) <i>[Signature]</i> | Date: 5/25/18 | Time: 1551 | Received by: (Signature) | | Trip Blank Received: Yes / <input checked="" type="checkbox"/> HCl / MeOH TBR | | | | | | | | |
| Relinquished by : (Signature) <i>[Signature]</i> | Date: | Time: | Received by: (Signature) | | Temp: °C Bottles Received: 3.72 44 | | If preservation required by Login: Date/Time | | | | | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) <i>Erin D</i> | | Date: 5/25/18 Time: 0545 | | Hold: Condition: N/C <i>[Signature]</i> | | | | | | |

Matt Shacklock

From: Brian Ford
Sent: Thursday, June 07, 2018 2:48 PM
To: Login; Sample Storage; Extractions; Brian Ford
Subject: L997491 *AEICONWCCA* re-log and log off hold ***ooh tomorrow***

Importance: High

Please re-log and log off hold for SV8081CA and TS as EX due 06/14. SV8081CA: 1.5x multiplier for short hold. **Holding time expires tomorrow, Fri 06/08.** Hold labels 5-172, 5-174.

SB-5A- 0.5
SB-5A-2
SB-5B- 0.5
SB-5B-2
SB-5C- 0.5
SB-5C-2
L997491-10 (SB-5D- 0.5) transfer TS.
SB-5D-2

Thanks,

✉ Brian Ford
Technical Service Representative
ESC Lab Sciences-a subsidiary of Pace Analytical
12065 Lebanon Road | Mt. Juliet, TN 37122
615.773.9772
bford@esclabsciences.com | www.esclabsciences.com

This E-mail and any attached files are confidential, and may be copyright protected. If you are not the addressee, any dissemination of this communication is strictly prohibited. If you have received this message in error, please contact the sender immediately and delete/destroy all information received.