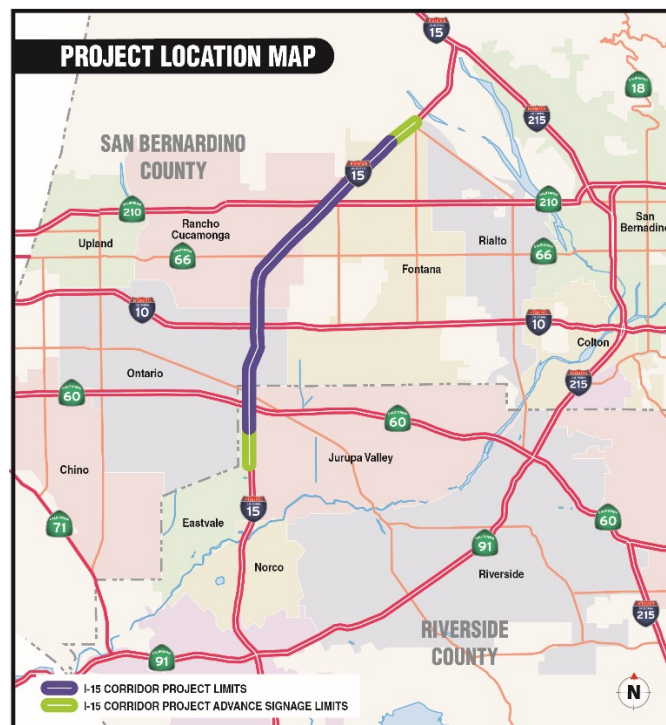


SITE INVESTIGATION AND AERIALLY DEPOSITED  
LEAD SURVEY  
I-15 CORRIDOR PROJECT  
FROM RIVERSIDE COUNTY I-15 POST MILE 49.8  
THROUGH 52.3 SAN BERNARDINO COUNTY I-15  
POST MILE 0.0 THROUGH 12.2, CITIES OF  
EASTVALE, JURUPA VALLEY, ONTARIO,  
RANCHO CUCAMONGA, AND FONTANA, CALIFORNIA  
EA/PN: 08-OR8000/0812000184



**Prepared by the  
State of California Department of Transportation  
in coordination with the  
San Bernardino County Transportation Authority**

June 2017

15-RIV-08-PM 49.8/52.3

15-SBD-08-PM 0.0/12.2

EA 08-0R8000

Improve traffic capacity and operations on Interstate 15 (I-15), from just north of Bellegrave Avenue in the Cities of Eastvale and Jurupa Valley, northward to the San Bernardino County Line (Riverside County Post Mile 49.8 to Post Mile 52.3) through the Cities of Ontario, Rancho Cucamonga, and Fontana (San Bernardino County Post Mile 0.0 to Post Mile 12.2).

### Site Investigation and Aerially Deposited Lead Survey

Submitted Pursuant to: (State) Division 13, California Public Resources Code  
(Federal) 42 USC 4332(2)(C) and 49 U.S.C. 303

THE STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
in cooperation with  
THE SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY

June 16, 2017

\_\_\_\_\_  
Date of Approval



Richard Orr, PG  
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# Acronyms and Abbreviations

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ADL	Aerially Deposited Lead
bgs	Below Ground Surface
Caltrans	California Department of Transportation
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
DQO	Data Quality Objectives
DTSC	Department of Toxic Substances Control, Division of CalEPA
ELAP	Environmental Laboratory Accreditation Program
GP	General Purpose
GPS	Global Positioning System
HSP	Health and Safety Plan
I-15	Interstate 15
LCS	Laboratory Control Samples
LCSD	Laboratory Control Samples Duplicates
LRL	Lower Reporting Limit
mg/kg	Milligrams per kilogram
mg/l	Milligrams per liter
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NAD 83	North American Datum of 1983
NEPA	National Environmental Policy Act
OCP	Organochlorine Pesticide
OSHA	Occupational Safety and Health Administration

PAHs	Polynuclear Aromatic Hydrocarbons
PARCC	Precision, Accuracy, Representativeness, Comparability, and Completeness
PCBs	Polychlorinated Biphenyls
PeMS	Performance Measurement System
PM	Post Mile
PQL	Practical Quantitation Limit
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RPD	Relative Percent Difference
RSL	Regional Screening Level
SDG	Sample Delivery Group
SI	Site Investigation
STLC	Soluble Threshold Leaching Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TPHd	Diesel Range Total Petroleum Hydrocarbons
TPHg	Gasoline Range Total Petroleum Hydrocarbons
TPHo	Oil Range Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentration
UCL	Upper Confidence Limit
USA	Underground Service Alert
USCS	Unified Soil Classification System
US EPA	United States Environmental Protection Agency
VVTA	Victor Valley Transit Authority
WET-CA	California Waste Extraction Test Citric Acid
WET-DI	California Waste Extraction Test Deionized Water

# Executive Summary

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A Site Investigation (SI) and Aerially Deposited Lead (ADL) survey was conducted for the Interstate 15 (I-15) Corridor Improvement Project within the Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, in Riverside and San Bernardino Counties, California (Figure 1). The work has been conducted to assess areas of potential hazardous materials including lead impacted soil within the California Department of Transportation (Caltrans) right-of-way.

The subject alignment consists of approximately 14.7 miles of the I-15 Caltrans right-of-way from Riverside County Post Mile 49.8 to San Bernardino County Post Mile 12.2 (Figures 2, 3, and 3.1 through 3.14). The I-15 is predominately a six-lane divided urban freeway with three 12-foot wide lanes in each direction. The outside shoulders vary in width between approximately 8 feet and 10 feet. The structural section of the existing mainline varies between asphalt concrete pavement and Portland cement concrete. The horizontal alignment is generally tangential, and the vertical alignment generally slopes to the south. There are 22 bridge structures, including 3 interchanges, and 4 railroad overheads within the project limits.

The alignment is and has been historically part of I-15 and earlier highways, and the potential for historical soil impacts from ADL exist. ADL in soil results from emissions from vehicles using leaded gasoline. The shallow soil in unpaved areas near highways often contains lead in concentrations above thresholds deemed hazardous. The alignment extends from Post Mile 49.8, north of the Bellegrave Avenue overcrossing to San Bernardino County Mile Post 12.2 south of the Duncan Canyon Road overcrossing. If hazardous soil is to be excavated or disturbed by construction activities, regulations require the soil to be assessed for adequate worker protection during construction, and disposed of at an appropriate facility or placed under roadways as outlined in the Department of Toxic Substances Control (DTSC) soil management agreement (DTSC, 2016). In addition, the alignment crosses areas of former agriculture with potential for impacts from organochlorine pesticides (OCPs) and arsenic, railroad bridge abutments with potential impacts from OCPs, metals, polynuclear aromatic hydrocarbons (PAHs) and total petroleum hydrocarbons (TPH), and the historical location of the Etiwanda Disposal Site, a former burn dump adjacent to the I-15, with potential impacts from metals, TPH, PAHs, metals, and polychlorinated biphenyls (PCBs).

On November 4, 2016, and between March 14, 2017 and April 5, 2017, a total of 204 borings were advanced at approximately 600-foot intervals on the shoulders and ramps of the 14.7-mile-long study area of the I-15 Freeway to investigate the presence of ADL and agricultural chemical use along the alignment (Figures 3.1 through 3.14); beneath the



railroad overheads to identify impacts to the soils related to current and past railroad operations (Figures 3.3, 3.4, 3.6, 3.8, and 3.10); and in the vicinity of the former Etiwanda Disposal Site (Figure 3.11). Six hundred fifty-five (655) soil samples were collected during the investigation including; 586 ADL samples and 69 samples collected from railroad and Etiwanda Disposal Site assessments. Ramp boring locations have been placed at shorter intervals to generate sufficient data to be suitable for statistical analysis (Caltrans, 2016). The sample number identifier “a” refers to borings advanced in order to collect additional surface and near surface samples in cases of drilling or hand augering refusal. These samples were collected to attempt to maintain an adequate number of samples for the statistical analysis. Discrete soil samples were collected from each soil boring at depths of 0.5, 1.0, 2.5, and 5.0 feet below ground surface (bgs), or practical refusal, using a direct push drill rig or hand auger.

Soil samples collected for the ADL survey were analyzed for total threshold limit concentration (TTLC) lead by United States Environmental Protection Agency (US EPA) Method 6010B. Samples with TTLC lead concentrations above 50 milligrams per kilogram (mg/kg), but less than 1,000 mg/kg, were analyzed for soluble threshold limit concentration (STLC) by the Waste Extraction Test using citric acid as the leaching compound (WET-CA). Samples that exceeded WET-CA screening level of 5 milligrams per liter (mg/l) were also analyzed for soluble threshold limit concentration by the Waste Extraction Test using deionized water as the leaching compound (WET-DI). Ten percent of the soil samples were selected to be analyzed by the WET-CA method and for soil pH by US EPA Method 9045.

The soil samples exhibited TTLC lead concentrations ranging from <0.192 mg/kg to 251 mg/kg. The concentrations of lead detected are below the California Code of Regulation (CCR), Title 22 waste disposal criteria of 1,000 mg/kg TTLC lead and the Caltrans soil management agreement hazardous waste disposal criteria of 3,200 mg/kg. Fifteen (15) soil samples exceeded 50 mg/kg lead which is greater than ten times (10x) the STLC limit and therefore, were selected to be analyzed for WET-CA analysis. STLC WET-CA concentrations ranged from 0.046 mg/l to 12.0 mg/l. Six (6) of the WET-CA samples exceeded 5 mg/l and were analyzed for soluble lead using the WET-DI method. Of the 6 samples analyzed by WET-DI, none contained concentrations of lead greater than 5 mg/kg.

In order to decrease the field sampling time and cost associated with the investigation data from two previous ADL investigations were incorporated into this investigation. SECOR, Inc. performed an ADL survey of the I-15 alignment in 2006 between Riverside County Post Mile 51.5 and San Bernardino County Post Mile 3.8 (SECOR, 2006). Leighton Consulting, Inc., also performed an ADL survey of I-15 between Riverside County Post Mile 34.7 and San Bernardino County Post Mile 1.3 (Leighton, 2014);

however, only the data collected between Riverside County Post Mile 48.9 and San Bernardino County Post Mile 1.3 were incorporated into this investigation.

Statistical analysis identified that the 95% upper confidence limit (UCL) for the population mean for TTLC lead was 8.39 mg/kg. The 95% UCL for soluble lead (WET-CA) was 1.33 mg/l; therefore, tested soil does not represent significant environmental or health hazards and can be classified as non-hazardous. The average TTLC lead concentrations are below the DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment Note 3 screening level 80 mg/kg for unrestricted land use (DTSC-HERO, 2016).

Samples were collected from along the I-15 alignment for the former agricultural site investigation and from the railroad bridge abutments for the railroad abutment investigation. The samples were analyzed for OCPs by US EPA Method 8081A. One OCP (4,4'-DDE) was reported above the method detection limit in 6 of the 32 soil samples collected during the former agricultural site investigation, at a maximum concentration of 0.077 mg/kg. This concentration is below the US EPA commercial/industrial regional screening level (RSL) of 9.3 mg/kg.

Six OCPs were reported above the method detection limit in 5 of the 57 soil samples collected during the railroad abutment investigation. The maximum concentrations of each of the OCPs detected were below their respective US EPA RSLs [alpha, gamma, and total chlordane: 7.7 mg/kg, 4,4'-DDT: 8.5 mg/kg, and dieldrin: 0.140 mg/kg] for commercial/industrial land use.

Soil samples collected from along the I-15 alignment for the former agricultural site investigation were analyzed for arsenic related to former agricultural use of the site. The samples were analyzed for arsenic by US EPA Method 6010B. Six samples exceeded the US EPA arsenic RSL of 3.00 mg/kg for commercial/industrial land use. However, the concentrations of arsenic are below the DTSC recognized southern California background arsenic concentration of 12 mg/kg (DTSC, 2008) and are below hazardous waste criteria.

Soil samples were collected from the railroad bridge abutments and from the vicinity of the former Etiwanda Disposal Site and were analyzed for PCBs by US EPA Method 8081A. PCBs were not detected at concentrations exceeding the laboratory method detection limits in the samples collected from the railroad abutment investigation or the Etiwanda Disposal Site investigation.

Soil samples were collected from the railroad bridge abutments for the railroad bridge abutment investigation and in the vicinity of the former Etiwanda Disposal Site for the Etiwanda Disposal Site investigation. The samples were analyzed for TPH by US EPA

Method 8015B. Gasoline range TPH (TPHg) was reported in one sample from the Etiwanda Disposal Site at a concentration exceeding the laboratory method detection limit. Diesel range TPH (TPHd) was identified in 15 samples at concentrations exceeding the laboratory method detection limit. Oil range TPH (TPHo) was identified in 10 samples at concentrations exceeding the laboratory method detection limit. The concentrations of TPH identified in the Railroad Abutment Investigation and the Etiwanda Disposal Site Investigation do not exceed US EPA RSLs for commercial/industrial land use. [RSLs: TPHg aromatic: 420 mg/kg; TPHg aliphatic: 2,200 mg/kg; TPHd aromatic: 600 mg/kg; TPHd aliphatic: 440 mg/kg; TPHo aromatic: 33,000 mg/kg; and TPHo aliphatic: 3,500,000 mg/kg]

Soil samples were collected from the railroad bridge abutments and the vicinity of the former Etiwanda Disposal Site and were analyzed for PAHs by US EPA Method 8310. PAHs were reported above the method detection limit in 30 of the 57 soil samples collected during the railroad abutment investigation and 2 of the 12 samples collected during the Etiwanda Disposal Site investigation. PAH concentrations in each sample were below the US EPA RSLs [RSLs: acenaphthene: 45,000 mg/kg, anthracene: 230,000 mg/kg, benzo(a)anthracene: 29 mg/kg, benzo(a)pyrene: 0.29 mg/kg, benzo(b)fluoranthene: 2.9 mg/kg, benzo(k)fluoranthene: 29 mg/kg, chrysene: 290 mg/kg, fluoranthene: 3,000 mg/kg, indeno(1,2,3-cd)pyrene: 2.9 mg/kg, pyrene: 23,000 mg/kg] for commercial/industrial use, with the exception of one sample, which contained a concentration of benzo(a)pyrene greater than the US EPA RSL for commercial/industrial land use. However, the concentration of benzo(a)pyrene was below the DTSC recognized background concentration of 0.9 mg/kg of benzo(a)pyrene (DTSC, 2009b). The maximum concentrations of each of the PAHs detected were below their respective US EPA RSLs for commercial/industrial land use.

Soil samples were collected from the railroad bridge abutments for the Railroad Abutment investigation and the former Etiwanda Disposal Site for the Etiwanda Disposal Site investigation. The samples were analyzed for Title 22 metals by US EPA Methods 6010B and 7471A. Concentrations of metals exceeding their respective US EPA commercial/industrial RSLs [RSLs: arsenic: 3.00 mg/kg, barium: 220,000 mg/kg, cadmium: 980 mg/kg, chromium: 1,800,000 mg/kg, cobalt: 350 mg/kg, copper: 47,000 mg/kg, lead: 800 mg/kg, mercury: 46 mg/kg, nickel: 22,000 mg/kg, vanadium: 5,800 mg/kg, and zinc: 350,000 mg/kg] were not identified with the exception of arsenic. Two samples collected from beneath the Etiwanda Overhead contained concentrations of arsenic greater than the US EPA commercial/industrial RSL and the DTSC-recognized southern California background arsenic concentration of 12.0 mg/kg.

Based on the site investigation and ADL survey data and statistical analysis, the soil is classified as non-hazardous and below residential health risk levels with no restrictions to use under the soil management agreement between the DTSC and Caltrans (DTSC, 2016a). The soils are below the DTSC Human and Ecological Risk Office Human Health Risk Assessment Note 3 lead screening level for unrestricted land use of 80 mg/kg and do not pose a significant health risk to worker safety (DTSC, 2016b).

Based on the results of the soil samples collected along the I-15 alignment and in the vicinity of the Former Etiwanda Disposal Site the alignment does not appear to be impacted by former agricultural activities or the former Etiwanda Disposal Site.

Based on the results of the Railroad Abutment Investigation, a soil management plan is recommended to address the arsenic impacts identified beneath the Etiwanda Overhead. The samples containing the highest concentrations of arsenic were collected at RR-12 and RR-13 at a depth of 2.5 feet (RR-12-2.5 and RR-13-2.5). Borings RR-11 and RR-14 encountered refusal at 1.0 foot and as a result no samples were collected at the 2.5-foot bgs level. These locations may also have arsenic impacts below 1.0 foot bgs. The soil management plan would consist of segregation and stockpiling of soils excavated between 1.0 and 5.0 feet bgs in the vicinity of the Etiwanda Overhead, waste profile sampling of segregated soils, and, if necessary disposal of arsenic impacted soil at an approved disposal facility.

# Chapter 1 Proposed Project

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## 1.1 Project Description

The proposed Interstate 15 (I-15) Corridor Project extends for approximately 14 miles and would add two (2) Express Lanes in each direction along the I-15 Corridor between SR-60 and SR-210, one (1) Express Lane in each direction between Cantu-Galleano Ranch Road and SR-60 at the southerly end, and one (1) Express Lane in each direction between SR-210 and Duncan Canyon Road at the northerly end. The proposed project extends through three (3) freeway-to-freeway system interchanges including SR-60 in the cities of Eastvale and Jurupa Valley in Riverside County, Interstate 10 (I-10) in the City of Ontario in San Bernardino County and SR-210 in the cities of Rancho Cucamonga and Fontana in San Bernardino County. The project limits which include transition areas extend from approximately 0.3 miles south of Cantu-Galleano Ranch Road in the Cities of Eastvale and Jurupa Valley at Post Mile (PM) 49.8 in Riverside County to approximately 1.2 miles north of Duncan Canyon Road at PM 12.2 in the City of Fontana in San Bernardino County.

## 1.2 Existing Facilities and Proposed Improvements

San Bernardino County Transportation Authority (SBCTA), in cooperation with the California Department of Transportation (Caltrans), proposes to construct Express Lanes, including tolled facilities, in both directions of I-15 from approximately 0.3 miles south of Cantu-Galleano Ranch Road in the Cities of Eastvale and Jurupa Valley at Post Mile (PM) 49.8 in Riverside County to approximately 1.2 miles north of Duncan Canyon Road at PM 12.2 in the City of Fontana in San Bernardino County (Figure 1). Caltrans is the lead agency under both the National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA).

This project (I-15 Corridor Project) is included in the Southern California Association of Governments (SCAG) 2016-2040 Regional Transportation Plan/ Sustainable Communities Strategy (RTP), which was adopted by SCAG on April, 2016. The project is listed under RTP ID (4122006-20159901). The project is also included in the proposed 2017 FTIP Conformity Amendment 3 (anticipated approval date is May/June, 2017) and described as “I-15 Express Lanes: Construct 2 new express lanes in each direction between SR-60 and SR-210; construct 1 express lane in each direction between from Cantu Galleano Ranch Road to SR-210; Construct 1 express lane each direction between SR-210 and Duncan Canyon Road.” Additional improvements to, auxiliary lane widening, undercrossings, overcrossings, and reconstruction of ramps and lane transitions where needed. The proposed I-15 Corridor Project extends for

approximately 14.7 miles from Riverside County Post Miles (Riv PM) 49.8-52.3 to San Bernardino Post Miles (SBD PM) 0.0-12.2. The project would add two (2) Express Lanes in each direction between SR-60 and SR-210, one (1) Express Lane in each direction between Cantu-Galleano Ranch Road and SR-60 and one (1) Express Lane in each direction between SR-210 and Duncan Canyon Road. This project also proposes to add one (1) Auxiliary Lane in each direction between SR-60 and I-10 and one (1) Auxiliary Lane in the northbound direction between Fourth Street and Foothill Boulevard. The proposed project extends through three (3) freeway-to-freeway system interchanges including SR-60 in the cities of Eastvale and Jurupa Valley in Riverside County, Interstate 10 (I-10) in the City of Ontario in San Bernardino County, and SR-210 in the cities of Rancho Cucamonga and Fontana in San Bernardino County. The project construction limits at the southerly end extend approximately 1.3 additional miles south of the Cantu-Galleano Ranch Road Overcrossing and at the northerly end extend approximately 1.6 additional miles north of Duncan Canyon Road Overcrossing to allow for the placement of advanced signage for Express Lanes.

### **1.3 Purpose and Need**

The purpose of the I-15 Corridor Project is to improve traffic operations and mobility on I-15 from SR-60 to SR-210.

The following objectives are intended to accomplish the project purpose:

- Reduce congestion
- Increase mainline capacity
- Improve travel time within the corridor
- Improve trip reliability and mobility options along the corridor

The I-15 corridor is experiencing considerable performance problems due to a number of interrelated factors. These factors include substantial truck volumes (10 to 15 percent of the total traffic), heavy traffic demand on weekdays as well as weekends, and a lack of other reliable travel options. Due to the unique geographic characteristics of the area, the I-15 corridor remains the sole mainline route connecting the Inland Empire and Southern California metropolitan regions with the High Desert, Las Vegas, and beyond. There are no parallel highways that provide comparable direct road travel capability. The traffic demands on I-15 within the project area, arising from vacation, recreation, and interstate commutes, combined with the recurring regional and interstate freight and goods movement demands, often result in substantial congestion and delays. Traffic demands on the existing capacity of I-15 within the project area, coupled with the lack of

any parallel regional and interregional transportation facilities, as well as the forecast increase in demand and traffic volumes, are anticipated to further reduce the operational performance and reliability of this part of the state highway system.

Deficiencies on I-15 within the project limits are summarized below:

- **A majority of the I-15 mainline General Purpose (GP) lanes are projected to exceed capacity in future years**

Based on review of traffic data available from Caltrans' Performance Measurement System (PeMS), travel demand for the I-15 corridor has been growing 2 to 2.5 percent per year on average over the last ten years and is expected to double by 2040, substantially exacerbating performance problems.

- **High percentage of truck traffic**

Southern California's access to both national and international markets via ports in Los Angeles, Long Beach and San Diego is a key factor in the number of trucks using freeways in the region. The I-15 corridor is experiencing considerable performance problems due to truck traffic. The effects of heavy warehouse development, logistics and freight transportation along the I-15 corridor further complicate truck circulation along the route. Existing truck traffic constitutes 10-15% of the overall traffic, with higher rates north of Summit Avenue during the weekday AM and PM hours. It is anticipated that the truck traffic rate would be the same at the project's open-to-traffic and horizon years.

- **Limited transit facility access**

The I-15 corridor serves a large number of commuter trips between residential areas in the High Desert (Victor Valley and surrounding areas) and the San Bernardino Valley, as well as more distant locations in Riverside, Orange and Los Angeles Counties. Victor Valley is served by the Victor Valley Transit Authority (VVTa), while Omnitrans provides public transportation in the San Bernardino Valley. Currently, VVTa operates a commuter bus service between the Victor Valley and San Bernardino Valley, but no commuter rail service currently exists between the valleys. VVTa and various employers continue to encourage and assist in the formation of vanpools. Currently, there do not appear to be viable transit options that would benefit I-15 within the current study area.

- **Unreliable travel times**

Unreliability in travel time along segments of the roadway from one day to another, and from time to time, is due to bottle necks, accidents, and various reasons that cause unanticipated congestion. Factors that can adversely affect travel time reliability within the project corridor include:

- Insufficient capacity during peak hours resulting in delays;
- High traffic volumes during weekends due to the presence of retail locations such as the Victoria Gardens and Ontario Mills Malls;
- Special events at such venues as the California Speedway and San Manuel Amphitheater that generate high traffic volumes over time periods of several hours; and
- Significant congestion experienced during holidays and for recreational trips to the High Desert, Las Vegas and beyond.

- **Safety**

A comparison of accident rates with average statewide accident rates indicates that the I-15 mainline segments experience fatal accident rates that exceed the statewide average at several locations. Analysis of the available accident data shows that a majority of the reported accidents on all mainline segments involved multi-vehicle collisions. The most frequently reported type of collision was rear-end, and the most frequently reported primary collision factor was speeding, for all of the study segments. Interior or right lanes were the most frequently reported location of the collisions, for all of the study segments. These observations indicate that general traffic congestion and lack of capacity in the outer/right (weaving) lanes may be the cause for a majority of the mainline accidents.



## Chapter 2 Previous ADL Surveys

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Two previous aerially deposited lead (ADL) surveys performed for portions of the current I-15 Corridor Project Site were reviewed. The first investigation was performed by SECOR, Inc. (SECOR) in March 2006 (SECOR, 2006). The second investigation was performed by Leighton Consulting in August 2014 (Leighton Consulting, 2014). Analytical data from both investigations were incorporated into this investigation.

### **2.1 SECOR - Aerially Deposited Lead Investigation Report**

SECOR performed an ADL survey of I-15 between Riverside County Post Mile 51.5 and San Bernardino County Post Mile 3.8. The investigation consisted of 64 hand auger borings advanced to a maximum depth of 3.0 feet bgs with samples collected at 1.0 and 3.0 feet bgs along the northbound and southbound shoulders and ramps of the freeway. The samples were analyzed for total lead by US EPA Method 6010B. None of the samples analyzed contained concentrations of lead greater than 50 mg/kg, therefore no additional testing for soluble lead was performed by SECOR (SECOR, 2006).

### **2.2 Leighton Consulting – Interstate 15 Express Lanes Project Aerially Deposited Lead Survey**

Leighton Consulting, Inc. (Leighton Consulting) performed an ADL survey of I-15 extending from Riverside County Post Mile 34.7 to San Bernardino County Post Mile 1.3. The investigation consisted of 674 borings advanced to a maximum depth of 5.0 feet bgs using either a direct push drill rig or a hand auger. Samples were collected at 0.5, 1.0, 2.5 and 5.0 feet bgs (or practical refusal) along the northbound and southbound shoulders, ramps, and median of the freeway. For the current investigation only data from the samples collected between Riverside County Post Mile 49.8 and San Bernardino County Post Mile 1.3 were incorporated. The samples collected from the median were analyzed for total lead by US EPA Method 6010B. Samples with lead concentrations greater than 50 mg/kg but less than 1,000 mg/kg were analyzed for soluble threshold limit concentration by the WET-CA method (Leighton Consulting, 2014). Samples that exceeded 5 mg/l by the WET-CA test were also analyzed by the WET-DI method. Based on the results of the soil analyses an additional 10% of samples were analyzed by the WET-CA and WET-DI methods. Ten percent of the soil samples were also analyzed for soil pH by US EPA Method 9045. The samples collected from the shoulders and ramps were analyzed for total lead by US EPA Method 6010B (Leighton Consulting, 2014). Samples with lead concentrations greater than 50 mg/kg but less than 1,000 mg/kg were analyzed by the WET-CA and WET-DI methods. An additional 10% of these samples were analyzed for pH by US EPA Method 9045.

Soil samples from this investigation contained concentrations of total lead ranging from <0.50 mg/kg to 251 mg/kg (Leighton Consulting, 2014).

Boring locations D0001, D0002, D0003, and B008 are not shown on the portion of the Leighton Consulting ADL survey investigation map (Leighton Consulting, 2014) that is located within the current investigation boundaries and are not included in the Leighton Consulting ADL dataset (Leighton Consulting, 2014) included in this investigation.

## Chapter 3 Sampling Strategy and Rationale

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The I-15 Corridor Project Site Investigation was performed to investigate four recognized environmental conditions identified during the Initial Site Assessment (Leighton Consulting, 2016a):

- ADL from vehicle exhaust along the I-15 right-of-way;
- Potential for impacts from railroad activities at the four railroad overhead locations along the I-15 right-of-way;
- Potential for impacts related to the former agricultural use of portions of the I-15 right-of-way; and
- Potential for impacts to the I-15 right-of-way in the vicinity of Victoria Street related to the presence of the Etiwanda Disposal Site, a former burn dump adjacent to and east of the I-15 freeway.

ADL is the result of tetraethyl lead, which was added to gasoline for many years to prevent gasoline engine knocking. Lead was present in the vehicle exhaust emissions, was aeri ally deposited, and has been found in the soils adjacent to major thoroughfares.

The I-15 Corridor is crossed at four locations by current or former railroad tracks. Railroad overhead bridges are located north of Mission Boulevard (Mission Boulevard Overhead); between Airport Drive and I-10 (Vina Vista Overhead); between Seventh Street and the Day Canyon Channel (Rochester Overhead); and between Baseline Road and Victoria Street (Etiwanda Overhead) (Figures 3.3, 3.4, 3.6, 3.8, and 3.10). Railroads have the potential to be impacted by heavy metals, petroleum hydrocarbons (TPH), polynuclear aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), and polychlorinated biphenyls (PCBs).

Approximately half of the I-15 right-of-way is located on land that was used for agriculture during the latter half of the 20<sup>th</sup> century. As a result, there is the potential for soils within the right-of-way to be impacted with agricultural chemicals in the form of arsenic and OCPs.

During the I-15 Corridor ISA (Leighton, 2016a), the presence of a former burn dump (Etiwanda Disposal Site) was identified adjacent to the I-15 freeway in the vicinity of Victoria Street (Figure 3.11). Based on the types of materials disposed of at the Etiwanda Disposal Site and the time period in which the Etiwanda Disposal Site was

active, the site has the potential to be impacted by heavy metals, TPH, PAHs, OCPs, and PCBs.

The site investigation (SI) was performed in accordance with the Caltrans-approved Workplan (Leighton Consulting, 2016b) and consisted of the following tasks:

- An assessment of possible ADL in exposed soils within the shoulders and ramps of I-15 by collecting discrete surface and subsurface soil samples for analysis of lead;
- Analysis of total lead and leachable lead concentrations in soil samples;
- A statistical analysis of the analytical results and a comparison of these results to health risk screening, disposal, and reuse options;
- An assessment of possible impacts to the right-of-way in the vicinity of railroad crossings by collecting discrete surface and subsurface samples for analysis of heavy metals, TPH, PAHs, OCPs, and PCBs;
- A comparison of these results to health risk screening, disposal, and reuse options;
- An assessment of possible impacts to soils from former agricultural use within the shoulders and ramps of I-15 by collecting discrete surface and subsurface samples for analysis of arsenic and OCPs;
- A comparison of these results to health risk screening, disposal, and reuse options;
- An assessment of possible impacts to the right-of-way in the vicinity of the Etiwanda Disposal Site by collecting discrete surface and subsurface samples for analysis of heavy metals, TPH, PAHs, OCPs, and PCBs; and
- A comparison of these results to health risk screening, disposal, and reuse options.

# Chapter 4 Prefield Activities

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## 4.1 Health and Safety Plan

In accordance with standard environmental procedures, a Health and Safety Plan (HSP) was prepared that described the safety aspects of the work to be performed at the site. The HSP was prepared in compliance with the Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1910.120 and California Code of Regulations CCR 5192, and was reviewed by a certified industrial hygienist in accordance with Caltrans Guidelines (Caltrans, 2017). The HSP contains information on chemical and physical hazards, emergency response plans, and information on routes to hospitals and emergency contacts. The HSP was on site during field activities and reviewed and signed by each of the site personnel.

## 4.2 Utilities

Underground Service Alert (USA) was contacted a minimum of 48 hours prior to the commencement of subsurface field activities as required by law. Utility maps provided by Parsons Brinckerhoff, Inc. were loaded into geographic information system (GIS) software and utilized by field personnel during the investigation to evaluate potential utility conflicts. No utilities were encountered during field operations.

## 4.3 Encroachment Permits

Two encroachment permits were secured for the fieldwork conducted within the existing Caltrans right-of-way. One permit was issued for the San Bernardino County portion of the alignment; it is referenced 08-16-A-DP-0082 and is dated February 9, 2016. The permit expired on November 12, 2016. An extension was issued by Caltrans extending the permit to June 30, 2017. The other permit was issued for the Riverside County portion of the alignment; it is referenced 08-16-A-DP-0083 and is dated February 10, 2016. The permit expired on November 10, 2016. An extension was issued by Caltrans extending the permit to June 30, 2017. The inspector was notified 10 days prior to field sampling activities per the permit requirements. In addition, the Caltrans Environmental Reviewer was notified at least 72 hours in advance of execution of field sampling.

The southern portion of the ADL survey area between sample locations AL-01 and AL-55 has been mapped as critical habitat for the Delhi Sands flower-loving fly, a federally listed endangered species (USFWS, 2008). The Delhi Sands flower-loving fly habitat is characterized by accumulations of windblown sand. In order to identify and protect potential habitat along the alignment, a Caltrans-approved biologist was on site during drilling and sampling activities performed within the Delhi Sands area. Each sampling

location was observed for windblown sand or indications of other animal activity or endangered plants by the biologist prior to drilling. Drilling activities were monitored by the biologist to ensure that the field sampling crew abided by the rules outlined in the biological memorandum prepared by ICF International, Inc. (ICF) for the project (ICF, 2017). Additionally, the memorandum stated that trees and shrubs were not to be disturbed, drainages and waterways could not be crossed by equipment, and that drilling in or around animal burrows was to be avoided along the entire alignment. Delhi Sands were not identified in the boring locations on the alignment.

An encroachment permit was obtained from the Southern California Railroad Authority (Metrolink) to gain access to the portion of the Caltrans right-of-way located on Metrolink property. The Metrolink permit is referenced S0000125 and is dated October 14, 2016 and expires on September 7, 2017. Metrolink's flagging services contractor, J.L. Patterson, Inc. was notified and a flagger was secured 10 days prior to the start of work. Personnel working within the Metrolink right-of-way attended a half-day railroad safety class prior to being allowed onto the right-of-way. The Metrolink Signals and Communications department was also contacted 10 days prior to the execution of field sampling.

#### **4.4 Traffic Control**

A Cone Zone, Inc., an experienced traffic control subcontractor, was on site during the sampling activities. A Cone Zone implemented appropriate traffic control (shoulder and ramp lane closures) in accordance with the encroachment permit and Caltrans guidelines.

# Chapter 5      Field Investigation

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## 5.1            Site Investigation and ADL Survey

Between March 14 and April 5, 2017, a total of 208 borings were advanced within the alignment comprising:

- 141 Primary ADL survey borings
- 34 Second attempt “a” ADL survey borings
- 8 Duplicate ADL survey borings
- 2 Duplicate second attempt “a” ADL survey borings
- 14 Primary railroad abutment investigation borings
- 4 Second attempt “a” railroad abutment investigation borings
- 1 Duplicate railroad abutment investigation boring
- 1 Duplicate second attempt “a” railroad abutment investigation boring
- 2 Etiwanda Disposal Site investigation borings
- 1 Duplicate Etiwanda Disposal Site investigation boring

A total of 185 borings were advanced along the northbound and southbound shoulders of I-15 to identify impacts from aerially deposited lead and, for arsenic and OCPs on portions of the alignment formerly developed for agriculture. A total of 20 borings were advanced adjacent to the northern and southern abutments of the four bridges spanning the current and former railroad easements that cross the alignment to investigate for impacts from Title 22 CAM 17 metals, total petroleum hydrocarbons (TPH), polynuclear aromatic hydrocarbons (PAHs), OCPs, and polychlorinated biphenyls (PCBs) related to current and former railroad operations. Three borings were advanced on the east side of the alignment near Victoria Avenue to investigate for impacts from Title 22 CAM 17 metals, TPH, PAHs, and PCBs related to the Etiwanda Disposal Site, a former landfill that was located on the east side of the alignment prior to the construction of I-15.

### 5.1.1            ADL and Former Agricultural Survey

Between March 14 and April 5, 2017, a total of 185 borings (including 34 second attempt borings, 8 duplicates, and 2 duplicate second attempt borings) were advanced at approximately 600-foot intervals on the shoulders, and ramps of the

14.7-mile-long study area of the I-15 Freeway to investigate the presence of ADL (Figures 3.1 through 3.11). Soil samples that were collected from portions of the alignment that had previously been developed for agriculture were also analyzed for arsenic and OCPs. Discrete soil samples were collected from each soil boring at depths of 0.5, 1.0, 2.5, and 5.0 feet bgs or practical refusal using a direct push drill rig or hand auger. At locations where refusal was encountered an additional boring was advanced approximately five feet south of the primary boring and additional shallow samples were collected in lieu of the deeper samples that could not be collected. The samples collected from these additional borings were given the same sample name as the original boring but were denoted with an “a” to indicate that they were collected from an additional boring and are shown on Figures 3.1 through 3.14 in association with their original boring.

### **5.1.2 Railroad Abutment Investigation**

Between March 14 and April 5, 2017, a total of 20 borings were advanced east and west of the existing columns supporting the bridges crossing the four current and former railroad easements crossing the I-15 alignment. Samples were collected in the areas expected to be occupied by additional bridge columns when the bridges are widened. Discrete soil samples were collected from each soil boring at depths of 0.5, 1.0, 2.5, and 5.0 feet bgs or practical refusal, using a hand auger. At locations where refusal was encountered an additional boring was advanced approximately five feet from the primary boring and additional shallow samples were collected in lieu of the deeper samples that could not be collected. The samples collected from these additional borings were given the same sample name as the original boring but were denoted with an “a” to indicate that they were collected from an additional boring.

### **5.1.3 Etiwanda Disposal Site Investigation**

On March 27, 2017, A total of 3 borings were advanced on the east side of the I-15 alignment north and south of Victoria Street to investigate for impacts to the alignment from the Etiwanda Disposal Site, a former unlined landfill that had occupied the vicinity prior to the construction of I-15. Discrete soil samples were collected from each soil boring at depths of 0.5, 1.0, 2.5, and 5.0 feet bgs using a direct push drill rig.

## **5.2 Sample Collection**

Level D Personal Protective Equipment (PPE) was worn during field activities. This equipment included work clothes, steel-toed boots, hard hats, safety glasses, and traffic vests. A new pair of latex or nitrile gloves was worn when collecting each sample. The soils were described and classified using the Unified Soil Classification System (USCS) and description of visible evidence of soil contamination (e.g., odor, staining) was



recorded on the boring log by the field geologist during sampling activities. Soils along the alignment consisted primarily of silty sand or sandy silts with varying amounts of gravel and cobbles. Soils in the northern portion of the alignment tended to have greater quantities of and coarser gravel and cobbles. The coarse grained materials became finer and less abundant toward the southern end of the alignment. Soil sample logs have been provided in Appendix A. Boreholes were backfilled with bentonite chips and hydrated with potable water.

Boring locations were cleared by biological monitors prior to drilling or hand augering within the Delhi Sands portion of the alignment. In areas not mapped as Delhi Sands habitat the field sampling team abided by the terms of the Biological Review Memo contained within the Categorical Exemption/Programmatic Categorical Exclusion throughout the investigation (ICF, 2017).

The location of each borehole was measured by GPS equipment. Horizontal coordinates were calculated within an accuracy of 3 feet and reported in decimal degree units in accordance with the North American Datum of 1983 (NAD 83). Boring locations are depicted on Figures 3.1 through 3.11. Coordinates of each borehole have been provided in Appendix A.

### **5.3 Equipment Decontamination**

Non-dedicated sampling equipment (i.e., hand auger, direct push sampler) was decontaminated before and after each boring using the following procedures:

- Detergent wash scrub in first 5-gallon bucket
- Potable water rinse in second 5-gallon bucket
- Distilled water rinse in third 5-gallon bucket
- Final distilled water rinse pumped or poured directly onto sampling equipment from distilled water container into the third 5-gallon bucket

The equipment decontamination station, consisting of three 5-gallon buckets, was located on the opposite side of the direct push drill rig away from the sample preparation area.

### **5.4 Sampling Containers, Preservation, and Holding Times**

A summary of the Sampling and Analysis Program is presented in Table 1. The direct push soil samples were collected in new acetate sleeves, which were cut at the appropriate sampling depth in the field with a decontaminated hacksaw and sealed with Teflon sheets and tight-fitting plastic end caps and labeled with sample point identification. Samples collected via hand auger were transferred into laboratory-supplied, clean 4-oz glass jars. Each sample was placed in an ice chest cooled to

approximately 4 degrees Celsius for storage and transportation to Enviro-Chem, Inc., in Pomona, California, for analysis.

## **5.5 Sample Handling and Storage**

In the field, each sample container was marked prior to sample collection with the sampling location number, depth, date and time of sample collection, sampler's name, type of analysis, and preservative used. Each of the sample containers was wiped with clean paper towels, sealed in Ziploc™ bags, and securely packed in a cooler on ice in preparation for delivery to the laboratory.

## **5.6 Sample Custody**

For each sample that was submitted to the laboratory for analysis, an entry was made on the chain-of-custody form supplied by the laboratory. The information recorded included the sampling date and time, sample identification number, matrix type, requested analyses and methods, preservatives, and the sampler's name. Sampling team members maintained custody of the samples until they were relinquished to laboratory personnel. The chain-of-custody form accompanied the samples from the time of collection until received by the laboratory. Each party taking possession of the samples signed the chain-of-custody form signifying receipt. A copy of the original completed forms was provided by the laboratory along with the report of results. Copies of the chain-of-custody forms have been provided with the laboratory reports in Appendix B.

## **5.7 Field Variances**

During the course of the ADL and railroad investigations, several of the hand augered borings encountered refusal at or immediately below 1.0 foot bgs. Once it was established that the soil conditions were not conducive to hand augering and that there would be a significant number of missed samples which might impact the statistical validity of the ADL survey, the decision was made to collect samples from step out borings in order to maintain the total sample count. In situations where hand augering encountered refusal at 1.0 foot bgs, a step-out boring would be advanced 5.0 feet south of the primary boring and an additional 0.5 and 1.0 foot samples would be collected. If refusal were encountered at 2.5 feet bgs, one additional sample at 0.5 foot bgs would be collected. If refusal was encountered at or below 3.0 feet bgs, a sample would be collected at the point of refusal and no step-out boring would be advanced. The additional step out samples were designated with an "a" following the sample number to identify them as having been collected from the step-out boring. This method of maintaining the expected number of samples was chosen because it is assumed that

ADL would impact surface soils to a greater degree than deeper soils and would support a conservative evaluation of lead impacts.

One sample, RR-1-2.5 was lost at some point between the boring location and the location where the field vehicles were parked. The sample was inadvertently dropped by field personnel on the way back to their vehicles. A replacement sample was not retrieved.

Boring locations were generally placed as shown on the maps included in the ADL workplan. Some borings were moved short distances to avoid conflicts with structures or utilities. All boring locations were surveyed with GPS instrumentation.

These variances do not appear to have adversely affected the integrity of the investigation.

# Chapter 6 Laboratory Analysis

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## 6.1 Analytical Methods Requirements

Analytical procedures applicable to samples obtained from the site are presented below. The reporting limits (practical quantitation limit) for each analyte tested are provided in the laboratory reports provided in Appendix B. The laboratory, Enviro-Chem, Inc. of Pomona, California, is certified by the Department of Public Health, Environmental Laboratory Accreditation Program (ELAP), certificate number 1555, for each analytical method performed with the exception of US EPA Method 8310 for PAHs which was subcontracted to American Environmental Testing Laboratory, Inc. (AETL) in Burbank, California. AETL is a California Department of Health Services registered laboratory, certificate number 1541.

## 6.2 ADL Survey

Soil samples were collected from the shoulders and ramps of I-15 between March 14 and April 5, 2017. Soil samples collected for the ADL survey were analyzed for total threshold limit concentration (TTLC) lead by US EPA Method 6010B. Samples with TTLC lead concentrations above 50 milligrams per kilogram (mg/kg), but less than 1,000 mg/kg, were analyzed for STLC lead by the WET-CA method. Samples that exceeded 5 milligrams per liter (mg/l) by the WET-CA method were also analyzed by the WET-DI method. Based on the results of this analysis, an additional 10% of soil samples were selected to be analyzed by the WET-CA method. Ten percent of the soil samples were also analyzed for soil pH by US EPA Method 9045.

## 6.3 Former Agricultural Investigation

Prior to the construction of I-15 much of the land crossed by the current alignment was used for agriculture of various types. In order to identify if soil impacted by agricultural chemicals was used in the construction of I-15, eight boring locations were selected from the ADL survey borings that were in areas of former agricultural activity. The samples from these borings were analyzed for arsenic by US EPA Method 6010B and organochlorine pesticides (OCPs) by US EPA Method 8081A.

## 6.4 Railroad Investigation

Three active and one former railroad alignments cross beneath I-15. The bridges crossing over these railroad alignments will be widened during the corridor improvement project which will involve drilling and other earthworks in the vicinity of the tracks. In order to identify the potential for impacts related to railroad operations, 14 borings were

advanced in the vicinity of the railroad tracks beneath the Mission Boulevard overhead, the Vina Vista overhead, Rochester overhead, and the Etiwanda Overhead. Samples were collected east and west of the existing bridge pilings, north and south of the tracks. Samples were analyzed for Title 22 CAM 17 metals by US EPA Methods 6010B and 7471A, petroleum hydrocarbons (TPH) by US EPA Method 8015M, organochlorine pesticides (OCPs) by US EPA Method 8081A, polychlorinated biphenyls (PCBs) by US EPA Method 8082, and polynuclear aromatic hydrocarbons (PAHs) by US EPA Method 8310.

## **6.5 Etiwanda Disposal Site**

During the Initial Site Assessment for the project, the Etiwanda Disposal Site, a former landfill was identified in the vicinity of the Victoria Street undercrossing, on the east side of the current I-15 alignment (Leighton, 2016a). The landfill existed prior to the construction of I-15 and no documentation of the removal of the landfill could be found. In order to identify the potential for impacts related to the Etiwanda Disposal Site, two borings were advanced on the north and south sides of Victoria Street on the east side of the I-15 alignment. Samples were analyzed for Title 22 CAM 17 metals by US EPA Methods 6010B and 7471A, TPH by US EPA Method 8015M PCBs by US EPA Method 8082, and PAHs by US EPA Method 8310.

# Chapter 7      Quality Assurance Project Plan (QAPP)

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Data quality comes from several different procedures, including field procedures, documentation procedures, and quality assurance/quality control (QA/QC) procedures. The necessary QA/QC procedures were performed in accordance with acceptable protocols (US EPA, 2007). The data generated was evaluated to verify that it meets the overall project data quality objectives (DQOs) for precision, accuracy, representativeness, comparability, and completeness (PARCC). Sampling and analysis procedures, personnel requirements, chain-of-custody and documentation requirements, and specific criteria for evaluating data acceptability can be traceable.

Two types of QC samples were collected during this investigation: field duplicate samples and field equipment blank samples.

## **7.1      Field Duplicate Samples**

A minimum of 10% of primary samples were collected as field duplicates. Sets of samples (primary and duplicate) from a single source were prepared, labeled with unique sample numbers, and submitted to the laboratory without cross-referencing data and without identification as duplicates on the parameter request sheet. Field duplicates were designated by adding 100 and 1000-series numbers to the primary sample location numbers (e.g., AL-1127-2.5, RR-102-0.5). Because of an oversight during the development of this numbering system, the duplicates for primary sample locations AL-12, AL-28, and AL-40 (AL-112, AL-128, and AL-140) have identical sample numbers to three primary sample locations. An additional identifier “d” has been added to the duplicate sample numbers to differentiate them from the similarly named primary samples (Tables 2, 3, 7, and 8).

## **7.2      Field Equipment Blanks**

Field equipment blanks were prepared in the field to evaluate whether a sampling device (e.g., direct push sampler, hand auger) had been effectively cleaned. The sampling device was decontaminated in accordance with the procedures described above. Metal-free, deionized water was then poured through the device, transferred to the appropriate sample bottles, preserved, and returned to the laboratory for analysis. One equipment blank was collected per sampling tool used at the site each day. The equipment blank was analyzed for constituents of concern. Equipment blanks were designated with 100-x sample numbers denoting the direct push drill sampler and 200-x sample numbers denoting a hand auger. Results are summarized on Table 1 through Table 6. Lead was

not reported above the practical quantitation limits (PQLs) in the equipment blanks analyzed. Copper and zinc were reported above their respective PQLs; however, no copper or zinc impacts exceeding residential screening levels were identified during the investigation.

### **7.3 Laboratory QC Requirements**

To obtain data on the precision, accuracy, and representativeness of the analytical results, the analytical laboratory analyzed the QC samples with suspected contamination as specified by the Project Manager. The control limits and corrective actions for each parameter are specified in each analytical method. Laboratory analyses of soil and water required the following QC samples.

- Calibration verification following instrument calibration and once every tenth sample thereafter through the working day;
- Laboratory blank verification at instrument calibration and once every tenth sample thereafter through the working day to check instrument drift;
- Method blank analysis at a rate of once per batch of samples or one per 20 samples of a single matrix, whichever is more frequent, to evaluate contamination levels during preparation; and
- Matrix spike/matrix spike duplicate (MS/MSD) analyses at a rate of one per batch of samples for each matrix type (e.g., soil, water) and concentration level (e.g., low, medium) or one in 20 samples, whichever is more frequent. The MS/MSDs are used to check for the ability to accurately and precisely recover compounds of interest from the matrix.

The results of analyses of these QC samples were used as independent, external checks on laboratory and field contamination.

### **7.4 Laboratory QA/QC**

A QA/QC evaluation according to PARCC parameters was performed relative to the project DQOs. The results of the laboratory data validation for PARCC parameters were reported to be within the acceptable goals of the US EPA guidelines. Of the 655 soil samples collected, none of the sample results were rejected. The completeness was reported at 100% and met the DQO goal of 90%. One sample was lost in the field; however this does not affect the laboratory DQO as all of the samples delivered to and analyzed by the laboratory were within acceptable QA/QC parameters.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: equipment rinsate blanks, field duplicates, method blanks, laboratory control samples (LCSs), surrogate spikes, matrix spike/matrix spike duplicates (MS/MSDs), and laboratory duplicates.

#### **7.4.1 Precision**

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from percent recovery data. Precision is expressed as the relative percent difference (RPD):

$$RPD = |(D1-D2)|/[1/2(D1+D2)] \times 100$$

Where D1 and D2 are the reported concentrations for sample and duplicate analyses.

Precision is primarily assessed by calculating an RPD from the percent recoveries of the spiked compounds for each sample in the MS/MSD pair. In the absence of an MS/MSD pair, a laboratory duplicate or LCS and laboratory control sample duplicate (LCSD) pair can be analyzed as an alternative means of assessing precision. In some cases, samples from multiple sample delivery groups (SDGs) were within one QC batch and therefore are associated with the same laboratory QC samples. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD result as the evaluation criteria (Table 8).

For inorganic analysis, one primary sample is analyzed and accompanied by an unspiked laboratory duplicate. The data reviewer compares the reported results of the primary analysis and the laboratory duplicate and then calculates RPDs, which are used to assess laboratory precision.

An RPD outside the numerical QC limit in either MS/MSD samples or LCS/LCSD indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analytes concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample matrix interference, sample inhomogeneity, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate pairs, results may be reported in either the primary or duplicate samples at levels below the reporting limit or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicate pairs do not suggest a significant impact on the data quality.



### **7.4.2 Accuracy**

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and samples containing surrogate spikes. Accuracy of inorganic analyses is assessed using the percent recoveries of MS and LCS analyses.

Percent recovery (%R) is calculated using the following equation:

$$\%R = (A-B)/C \times 100$$

Where:

A = measured concentration in the spiked sample

B = measured concentration of the spike compound in the unspiked sample

C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples, LCS, and surrogate compounds added to environmental samples is evaluated with the acceptance criteria specified by the previously noted documents.

### **7.4.3 Representativeness**

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. It is evaluated by reviewing the QC results of blank samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks.

A method blank is a laboratory-grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. Method blanks were within acceptable limits.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times are specific for each method and matrix analyzed. Holding times were not exceeded for the samples analyzed during this investigation.

#### **7.4.4 Comparability**

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The samples were collected under similar field conditions, sampling procedures, and laboratory methodologies and are therefore comparable.

#### **7.4.5 Completeness**

Completeness is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to assess whether an acceptable amount of usable data was obtained so that a valid scientific site assessment can be completed. As specified in the project DQOs, the goal for completeness for target analytes in each analytical fraction is 90%.

Percent completeness is calculated using the following equation:

$$\%C = (T - R)/T \times 100$$

Where:

- %C = percent completeness
- T = total number of sample results
- R = total number of rejected sample results

Completeness is also evaluated by comparing the planned number of samples per method and matrix with the number determined above. No analyses were rejected from the data sets and completeness is 100%.

### **7.5 Quality Control Soil Analysis Results**

The analytical results of the field duplicates and their corresponding primary samples are summarized in Table 8 at the end of the text. As a measure of sample precision, the analytical results of the field duplicates were compared to those of the co-located primary samples (Table 8).

As described above, precision is expressed as the RPD:

$$RPD = |(D1-D2)|/[1/2(D1+D2)] \times 100$$

Where D1 and D2 are the reported concentrations for the primary sample and duplicate analyses.

Sample results reported below the method detection limit are considered identical, and no RPD is calculated. Only sample results above the lower reporting limit (LRL) are used in the RPD comparison.

### **7.5.1 Relative Percent Difference**

The RPDs for duplicate pairs reported above the LRL ranged from 0% to 186% (Table 8). The RPDs show a certain degree of variability in some of the duplicate pairs and appear to be a result of the heterogeneity within the soil or lead distribution. These heterogeneities may be a result of the mechanisms in which the lead was introduced to the soils and the subsequent disturbance of the soils near the sampling points or from mixed sources of lead. These variances do not appear to pose a significant bias to the data set.

# Chapter 8 Results of Investigation

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## 8.1 Aerially Deposited Lead

Five hundred and eighty-six (586) soil samples were analyzed for TTLC lead by US EPA Method 6010B and are summarized in Table 2. Lead was reported above the PQL in 563 of the 586 soil samples collected during this investigation. The soil samples exhibited total lead concentrations ranging from <0.192 mg/kg to 251 mg/kg with an average concentration of 8.39 mg/kg. The concentrations of lead detected are below the CCR, Title 22 waste criteria of 1,000 mg/kg TTLC lead. Fifteen (15) soil samples exceeded 50 mg/kg lead and therefore were selected to be analyzed for soluble threshold limit concentration by the WET-CA methods. An additional 10 percent of soil samples were also selected for WET-CA for statistical purposes.

### 8.1.1 WET-CA

Eighty-two (82) soil samples were analyzed for soluble lead using the WET-CA method. Lead was reported above the laboratory PQL in 52 of the 82 soil samples analyzed. WET-CA concentrations ranged from <0.02 mg/l to 12.0 mg/l with an average of 1.33 mg/l and are summarized in Table 2.

### 8.1.2 WET-DI

The six (6) soil samples with WET-CA leachate concentrations in excess of 5 mg/l were analyzed for soluble lead using the WET-DI deionized water method. Lead was reported above the laboratory PQL in 2 of the 6 soil samples analyzed. WET-DI concentrations ranged from <0.02 mg/l to 0.146 mg/l and are summarized in Table 2. None of the soil samples exceeded 5 mg/l WET-DI.

### 8.1.3 TCLP

No TCLP analyses were conducted during this investigation. TCLP analyses were required for samples that exceed 5 mg/l when analyzed by the WET-DI method or a TTLC lead greater than 1,000 mg/kg. None of the samples analyzed by the WET-DI method during this investigation exceeded the 5 mg/l limit.

### 8.1.4 pH

Thirty-five (35) samples, selected at random, were analyzed for pH using US EPA method 9045B. The pH values ranged from 7.44 to 8.71 and are summarized in Table 2. This is within the non-hazardous waste range of 3 to 12 pH and is above the 5.5 pH disposal criteria for lead impacted soils.

### **8.1.5 Statistical Analysis**

The results of the soil sample analyses were evaluated for the current and previous investigations performed within the alignment to find the mean and the 95% upper confidence limits (UCLs) for lead in soil in accordance with SW-846, Chapter 9 (US EPA, 2007). The dataset included the 554 primary TTLC data from the current investigation and the 673 TTLC data from the previous investigations (Secor, 2006 and Leighton, 2014). This evaluation was conducted to evaluate whether the soil would be considered a hazardous waste if excavated or whether it could be reused at the subject site in accordance with the soil management agreement between Caltrans and the Department of Toxic Substances Control for ADL impacted soils (DTSC, 2016). The agreement uses the 95% UCL on the mean to evaluate the appropriate disposition of the soil.

Statistical methods were applied to the total and soluble data to analyze the distribution of the data sets (normal, lognormal, gamma, and/or non-parametric), whether there is an acceptable correlation between the total and soluble lead concentrations, and the 95% UCL on the mean value. Statistical methods used during this investigation and the calculated values were generated by using the US EPA's statistical program, ProUCL, version 4.1 (US EPA, 2008).

The first step in determining the 95% UCL on the mean is establishing the type of distribution of the data set. Distribution was analyzed by creating histograms of the different data sets, including the non-detected values. The laboratory method detection limit was entered as the sample concentration for each of the non-detect samples. The J-flag concentration estimates were used for sample results reported between the laboratory PQL and the method detection limit. The histograms for the TTLC and WET-CA values indicated non-parametric distributions therefore a non-parametric method was chosen for the 95% UCL calculation in ProUCL. Histograms for the total and soluble lead concentrations are included in Appendix C.

### **8.1.6 Data Correlation**

Data correlation is necessary to indicate the validity of predicted soluble lead concentrations of soil samples not analyzed for soluble lead by the laboratory. Using only those samples analyzed for both total lead (TTLC) and soluble lead (WET-CA) during this and the previous investigations, a correlation coefficient,  $r$ , was calculated for use as a quality check of the data. Linear regression analysis was used to calculate the  $r$ -value. The TTLC values versus the WET-CA values were plotted on a graph and a best-fit line was plotted for the data. To establish that the predicted values were above zero, the  $y$ -intercept was set to zero. The calculated equation of the line is  $y = 0.5412x$  and the  $r$ -value equals 0.28. Since the calculated value of the correlation coefficient,  $r$ , is below the limit of 0.8 (the referenced limit indicating a non-

linear relationship between data sets), soluble lead concentrations cannot be predicted for samples that were not analyzed by laboratory. A graph of the linear regression analysis is included in Appendix C.

### 8.1.7 95% Upper Confidence Level

Once the distribution was confirmed using histograms, the data was again imported into ProUCL. Statistical evaluation of lead analytical results for the complete data set, including non-detects (NDs), was completed to calculate the confidence intervals. The 95% UCL for the population mean for total lead was 8.39 mg/kg. The 95% UCL for soluble lead (WET-CA) was 1.33 mg/l; therefore, the soil does not represent significant environmental or health hazards and can be classified as non-hazardous. The soil is classified as non-hazardous and below residential health risk levels with no restrictions to use under the soil management agreement between the DTSC and Caltrans (DTSC, 2016a). The soils are below the DTSC Human and Ecological Risk Office Human Health Risk Assessment Note 3 lead screening level for unrestricted land use of 80 mg/kg and do not pose a significant health risk to worker safety (DTSC, 2016b). The following is an inventory of the current lead management criteria under the 2016 agreement:

ADL Soil Management Classification*	Soil Reuse Option	DTSC ADL Soil Management Agreement ‡ (2017) (criteria based on 95% UCL)
Unregulated	No restrictions to onsite or offsite use	TTLc lead ≤80 mg/kg STLc lead <5.0
Com	No cover requirement  Constrained to offsite commercial/industrial properties under DTSC approved property owner agreement	TTLc lead > 80mg/kg and <320 mg/kg AND WET-CA lead <5 mg/l
R-1	Soil may be placed 5 feet above historic high groundwater and must be covered with one foot of Com or non-regulated soil	TTLc lead >320 mg/kg and ≤1,600 mg/kg OR WET-CA ≥5 mg/l WET-DI ≤1.5 mg/l
R-2	Soil may be placed 5 feet above historic high groundwater and must be covered with pavement in compliance with the ADL Agreement.	TTLc >1,600 mg/kg and >3,200 mg/kg OR WET-DI >1.5 mg/l and WET-DI ≤150 mg/l

ADL Soil Management Classification*	Soil Reuse Option	DTSC ADL Soil Management Agreement ‡ (2017) (criteria based on 95% UCL)
Z-0	Regulated surplus material that must be disposed of at an appropriately permitted California Class II or III disposal facility.	TTLc lead >320 and <1,000 mg/kg AND WET-DI ≥150 mg/l
Z-2	Caltrans-generated California hazardous waste, must be disposed of at a California Class I disposal facility	Surplus soil with TTLc lead >1,000 mg/kg OR WET-CA >5.0 mg/l Any soil with average TTLc lead >3,200 mg/kg or WET-DI >150 mg/l
Z-3	Caltrans-generated RCRA hazardous waste, must be disposed of at California Class I disposal facility	TCLP lead ≥5mg/l

‡DTSC: Soil Management Agreement for Aerially Deposited Lead Contaminated Soils (2017)

\*Caltrans ADL Soil Management Classification System

Statistical analysis results are summarized in Table 9. Laboratory reports are provided in Appendix B. ProUCL data sheets are provided in Appendix C.

## 8.2 Organochlorine Pesticides

Forty (40) soil samples (including 32 primary and 8 duplicate samples) were collected from along the I-15 alignment shoulders for the former agricultural site investigation and fifty-seven (57) soil samples (including 53 primary and 4 duplicate samples) were collected from the railroad bridge abutments for the railroad abutment investigation. The samples were analyzed for OCPs by US EPA Method 8081A and the results are summarized in Table 3. One OCP (4,4'-DDE) was reported above the method detection limit in 6 of the 32 soil samples collected during the former agricultural site investigation at a maximum concentration of 0.077 mg/kg in AL-03-1.0. This concentration is below the US EPA commercial/industrial RSL of 9.3 mg/kg.

Six OCPs, including; alpha-chlordane (maximum of 0.002 mg/kg in RR-7-0.5), gamma-chlordane (maximum of 0.002 mg/kg in RR-7-0.5), total-chlordane (maximum of 0.019 mg/kg in RR-7-0.5), 4,4'-DDE (maximum of 0.004 mg/kg in RR-8-1.0), 4,4'-DDT (maximum of 0.003 in RR-8-1.0), and dieldrin (maximum of 0.002 in RR-8-0.5 and RR-8-1.0) were reported above the method detection limit in 5 of the 57 soil samples collected

during the railroad abutment investigation. The maximum concentrations of each of the OCPs detected were below their respective US EPA RSLs [RSLs: alpha, gamma, and total chlordane: 7.7 mg/kg, 4,4'-DDT: 8.5 mg/kg, and dieldrin: 0.140 mg/kg] for commercial/industrial land use (Table 2).

### **8.3 Polychlorinated Biphenyls**

The fifty-seven (57) samples from the railroad abutment investigation and twelve (12) samples from the Etiwanda Disposal site investigation were analyzed for PCBs. PCBs were not detected at concentrations exceeding the laboratory method detection limits in the samples collected from the railroad abutment investigation or the Etiwanda Disposal Site investigation (Table 4).

### **8.4 Total Petroleum Hydrocarbons**

The fifty-seven (57) soil samples collected from the railroad bridge abutments and twelve (12) samples collected from the former Etiwanda Disposal Site were analyzed for TPH by US EPA Method 8015B and the results are summarized in Table 5. Gasoline range TPH (TPHg) was reported in one sample (20.1 mg/kg in EB-2-0.5) from the Etiwanda Disposal Site at a concentration exceeding the laboratory method detection limit. Diesel range TPH (TPHd) was reported in 15 samples at concentrations exceeding the laboratory method detection limit including one sample from the Etiwanda Disposal Site and 14 J-flagged concentrations from the railroad bridge abutments (maximum of 53.3 in sample EB-2-0.5). Oil range TPH (TPHo) was identified in 10 samples at concentrations exceeding the laboratory method detection limit (maximum of 1,110 mg/kg in sample EB-2-1.0) including three samples from the Etiwanda Disposal Site and six samples from the railroad bridge abutments. The concentrations of TPH identified in the railroad abutment investigation or the Etiwanda Disposal Site investigation do not exceed US EPA RSLs [RSLs: TPHg aromatic: 420 mg/kg, TPHg aliphatic: 2,200 mg/kg, TPHd aromatic: 600 mg/kg, TPHd aliphatic: 440 mg/kg, TPHo aromatic: 33,000 mg/kg, and TPHo aliphatic: 3,500,000 mg/kg] for commercial/industrial land use (Table 5).

### **8.5 Polynuclear Aromatic Hydrocarbons**

Fifty-seven (57) soil samples were collected from the railroad bridge and twelve (12) samples were collected in the vicinity of the former Etiwanda Disposal Site. The samples were analyzed for PAHs by US EPA Method 8310 and the results are summarized in Table 6. Thirteen PAHs were reported above the method detection limit in 30 of the soil samples collected during the railroad abutment investigation and 2 of the samples collected during the Etiwanda Disposal Site investigation. One sample, RR-11-1.0 contained a concentration of benzo(a)pyrene (0.413 mg/kg) greater than the US EPA RSL for commercial/industrial land use of 0.29 mg/kg. However, the concentration of



benzo(a)pyrene is below the DTSC recognized background concentration 0.9 mg/kg of benzo(a)pyrene (DTSC, 2009b). The maximum concentrations of each of the PAHs detected were below their respective US EPA RSLs [RSLs: acenaphthene: 45,000 mg/kg, anthracene: 230,000 mg/kg, benzo(a)anthracene: 29 mg/kg, benzo(a)pyrene: 0.29 mg/kg, benzo(b)fluoranthene: 2.9 mg/kg, benzo(k)fluoranthene: 29 mg/kg, chrysene: 290 mg/kg, fluoranthene: 3,000 mg/kg, indeno(1,2,3-cd)pyrene: 2.9 mg/kg, pyrene: 23,000 mg/kg] for commercial/industrial land use (Table 6).

## 8.6 Title 22 Metals

Forty (40) soil samples collected from along the I-15 alignment for the former agricultural site investigation were analyzed for arsenic related to former agricultural use of the site (Table 7). The samples were analyzed for arsenic by US EPA Method 6010B. Six samples (maximum of 10.6 mg/kg in AL-42-1.0) exceeded the US EPA arsenic RSL for commercial/industrial land use of 3.00 mg/kg. The concentrations of arsenic are however, below the DTSC recognized southern California background arsenic concentration of 12.0 mg/kg (DTSC, 2008).

The fifty-seven (57) soil samples collected from the railroad bridge abutments and twelve (12) samples collected in the vicinity of the former Etiwanda Disposal Site were analyzed for Title 22 metals by US EPA Methods 6010B and 7471A. The results are summarized in Table 7. Concentrations of metals exceeding their respective US EPA commercial/industrial RSLs [RSLs: arsenic: 3.00 mg/kg, barium: 220,000 mg/kg, cadmium: 980 mg/kg, chromium: 1,800,000 mg/kg, cobalt: 350 mg/kg, copper: 47,000 mg/kg, lead: 800 mg/kg, mercury: 46 mg/kg, nickel: 22,000 mg/kg, vanadium: 5,800 mg/kg, and zinc: 350,000 mg/kg] were not identified with the exception of arsenic. Two samples (RR-12-2.5 and RR-13-2.5) in the vicinity of the Etiwanda Overhead railroad bridge abutment contained concentrations of arsenic greater than the US EPA commercial/industrial RSL and the DTSC recognized southern California background arsenic concentration of 12.0 mg/kg.

In order to evaluate the risk to workers posed by the arsenic impacts in the vicinity of the Etiwanda Overhead in the vicinity of the Pacific Electric Trail, a 95% UCL of the mean calculation was performed for the arsenic results from the Etiwanda Overhead samples. The 95% UCL on the mean for arsenic was 14.0 mg/kg which is above the 12.0 mg/kg southern California background arsenic concentration. A graphical method of determining site specific cleanup goals taken from the DTSC guidance document, *Arsenic Strategies Determination of Arsenic Remediation Development of Arsenic Cleanup Goals* (DTSC, 2009a), was also used to evaluate if the concentrations of arsenic at the Etiwanda Overhead were lower than the site specific cleanup goal for that dataset. Based on the location of the inflection point of the graph, the site specific cleanup goal for

the Etiwanda Overhead is approximately 12 mg/kg which is below the two highest arsenic concentrations identified in the Etiwanda Overhead samples. The graphs and 95% UCL output as well as the dataset used in the analysis are included in Appendix C.

## Chapter 9      Conclusions and Recommendations

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The soil samples for the ADL investigation reported total lead concentrations ranging from <0.192 mg/kg to 251 mg/kg. The concentrations of lead detected are below the CCR, Title 22 waste disposal criteria of 1,000 mg/kg TTLC lead. Fifteen (15) soil samples exceeded 50 mg/kg lead and therefore were selected to be analyzed for WET-CA analysis. STLC WET citric acid concentrations ranged from 0.046 mg/l to 12.0 mg/l. Six (6) of the WET-CA samples exceeded 5 mg/l and were analyzed for soluble lead using the WET-DI method. Of the 6 samples analyzed by WET-DI, none contained concentrations of lead greater than 5 mg/kg.

Based on the site investigation and ADL survey data and statistical analysis, the soil is classified as non-hazardous and below residential health risk levels with no restrictions to use under the soil management agreement between the DTSC and Caltrans (DTSC, 2016a). The soils are below the DTSC Human and Ecological Risk Office Human Health Risk Assessment Note 3 lead screening level for unrestricted land use of 80 mg/kg and do not pose a significant health risk to worker safety (DTSC, 2016b).

Based on the results of the soil samples collected along the I-15 alignment and in the vicinity of the Former Etiwanda Disposal Site, the alignment does not appear to be impacted by former agricultural activities or the former Etiwanda Disposal Site.

Based on the results of the Railroad Abutment Investigation, a soil management plan is recommended to address the arsenic impacts identified beneath the Etiwanda Overhead located near the Pacific Electric Trail. The samples containing the highest concentrations of arsenic were collected at RR-12 and RR-13 at a depth of 2.5 feet (RR-12-2.5 and RR-13-2.5). Borings RR-11 and RR-14 encountered refusal at 1.0 foot and as a result no samples were collected at the 2.5-foot bgs level. These locations may also have arsenic impacts beneath 1.0 foot bgs. The soil management plan would consist of segregation and stockpiling of soils excavated between 1.0 and 5.0 feet bgs in the vicinity of the Etiwanda Overhead, waste profile sampling of segregated soils, and, if necessary disposal of arsenic impacted soil above 12 mg/kg at an approved disposal facility.

# Chapter 10 References

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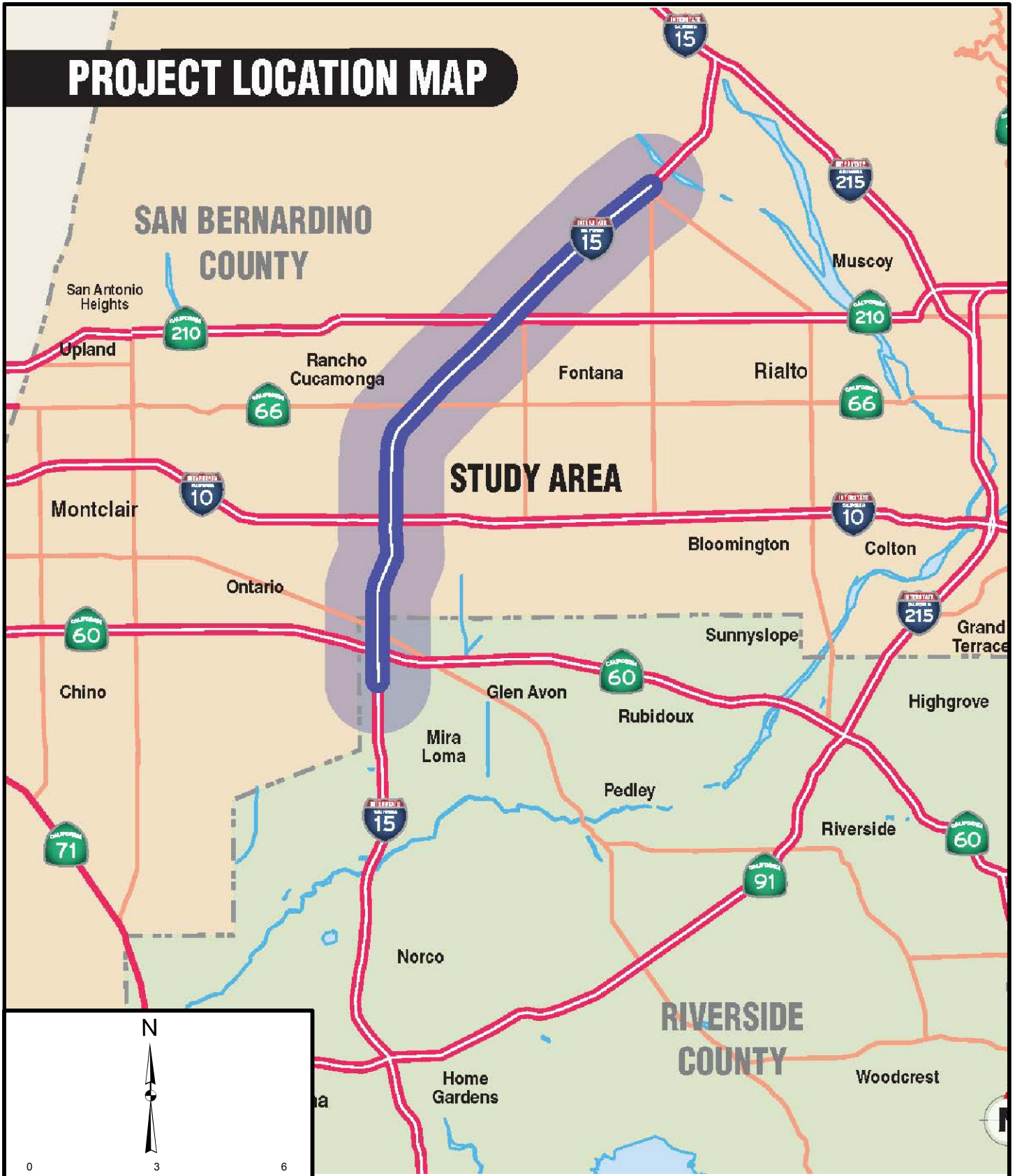
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# PROJECT LOCATION MAP



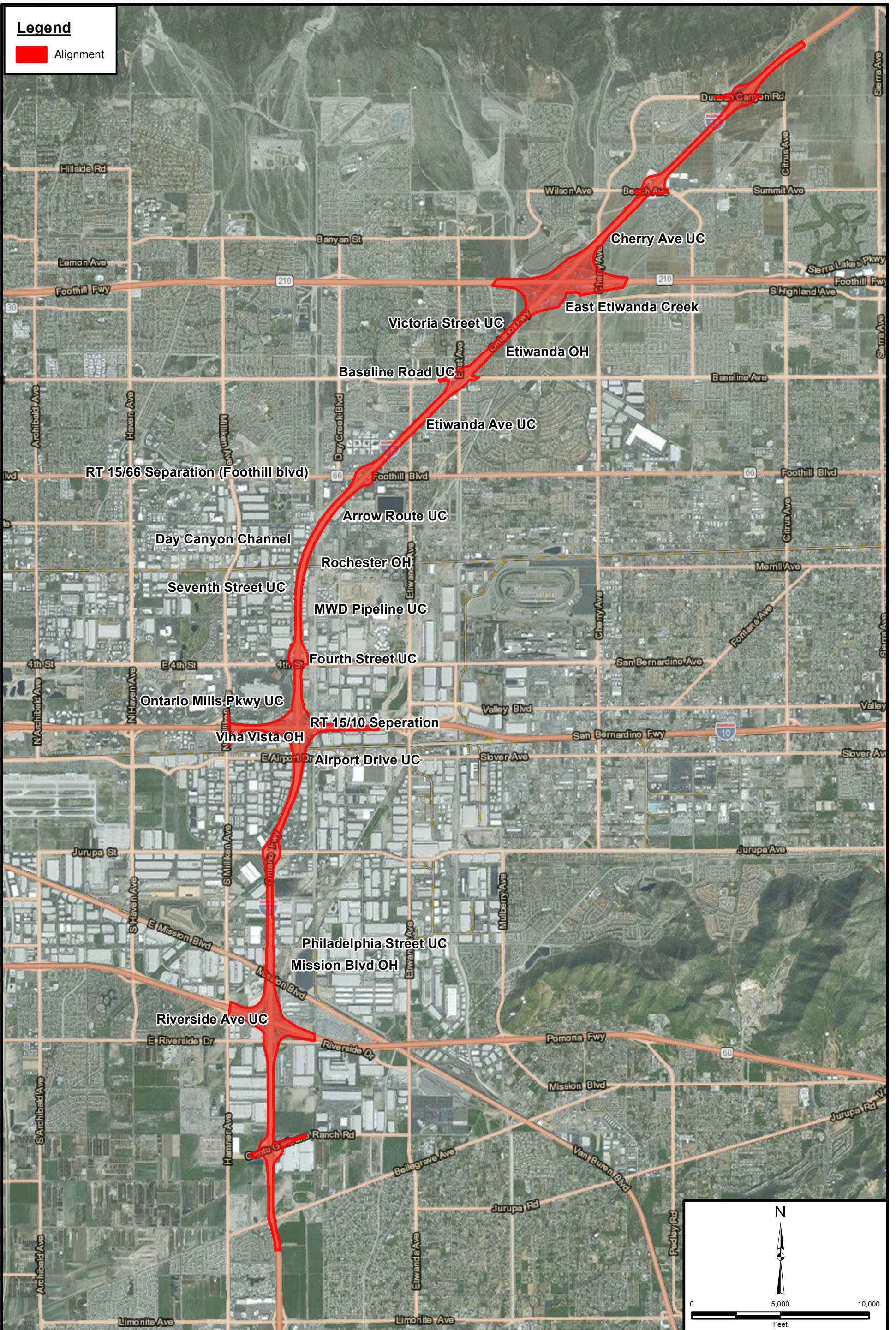
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Thematic Information: Leighton	
Author: Leighton Geomatics (mmurphy)	

**ALIGNMENT LOCATION MAP**  
 PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3  
 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 1

**Legend**

 Alignment

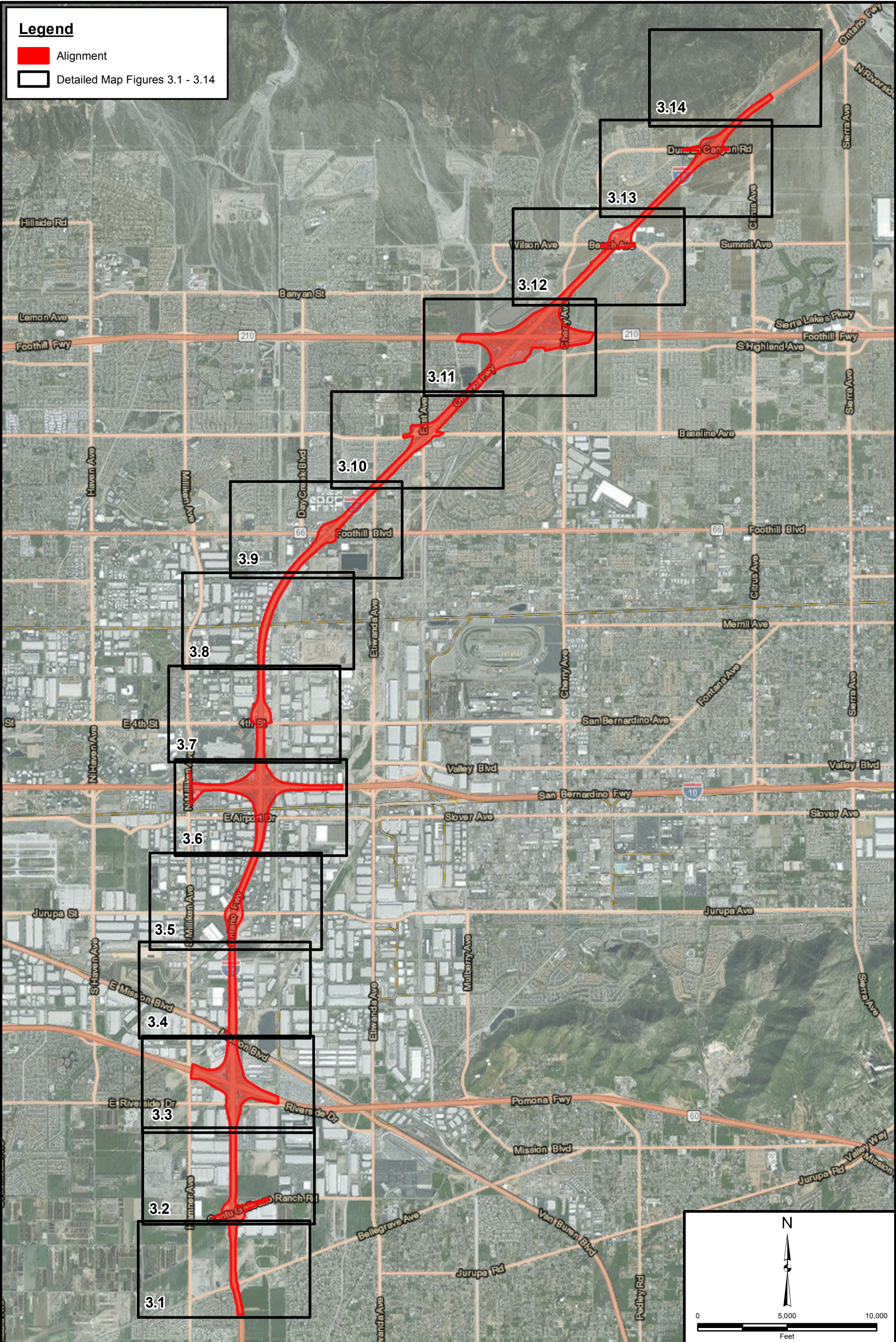


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**SITE PLAN MAP**  
 PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 2








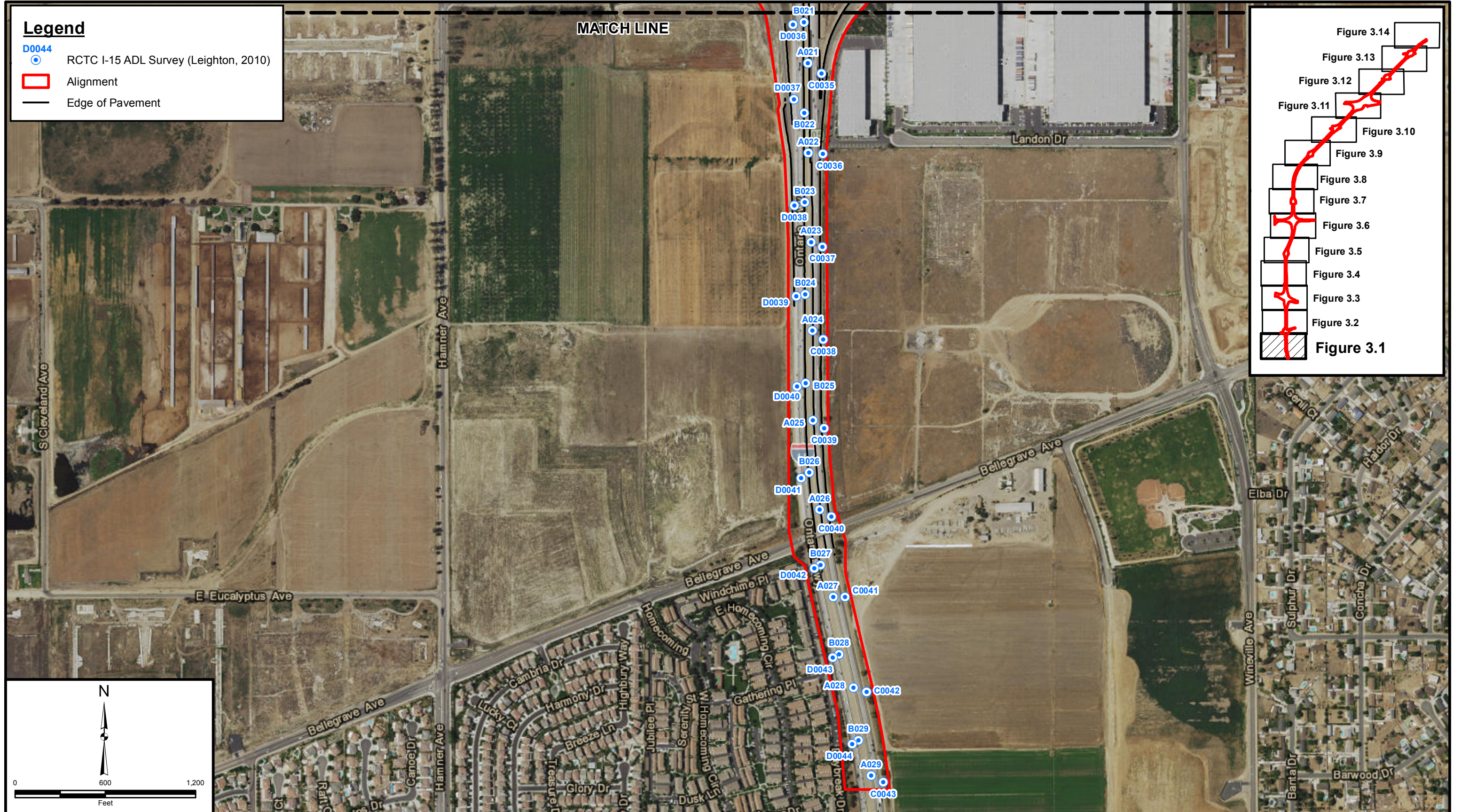
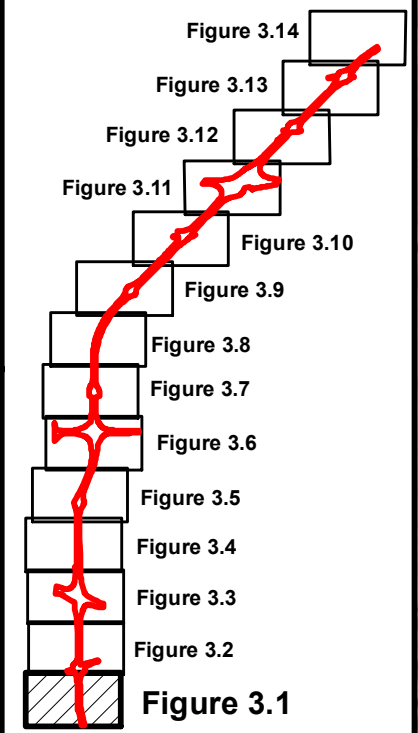
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Author: Leighton Geomatics (mmurphy)	

**STRIP MAP INDEX**  
 PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 3

**Legend**

- D0044
-  RCTC I-15 ADL Survey (Leighton, 2010)
-  Alignment
-  Edge of Pavement



Project: 603445.100 Eng/Geol: RLO  
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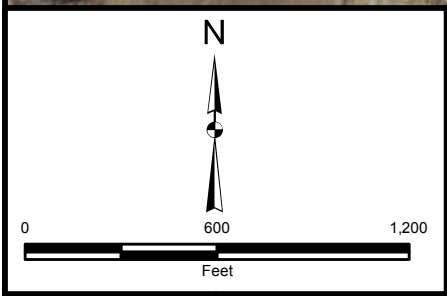
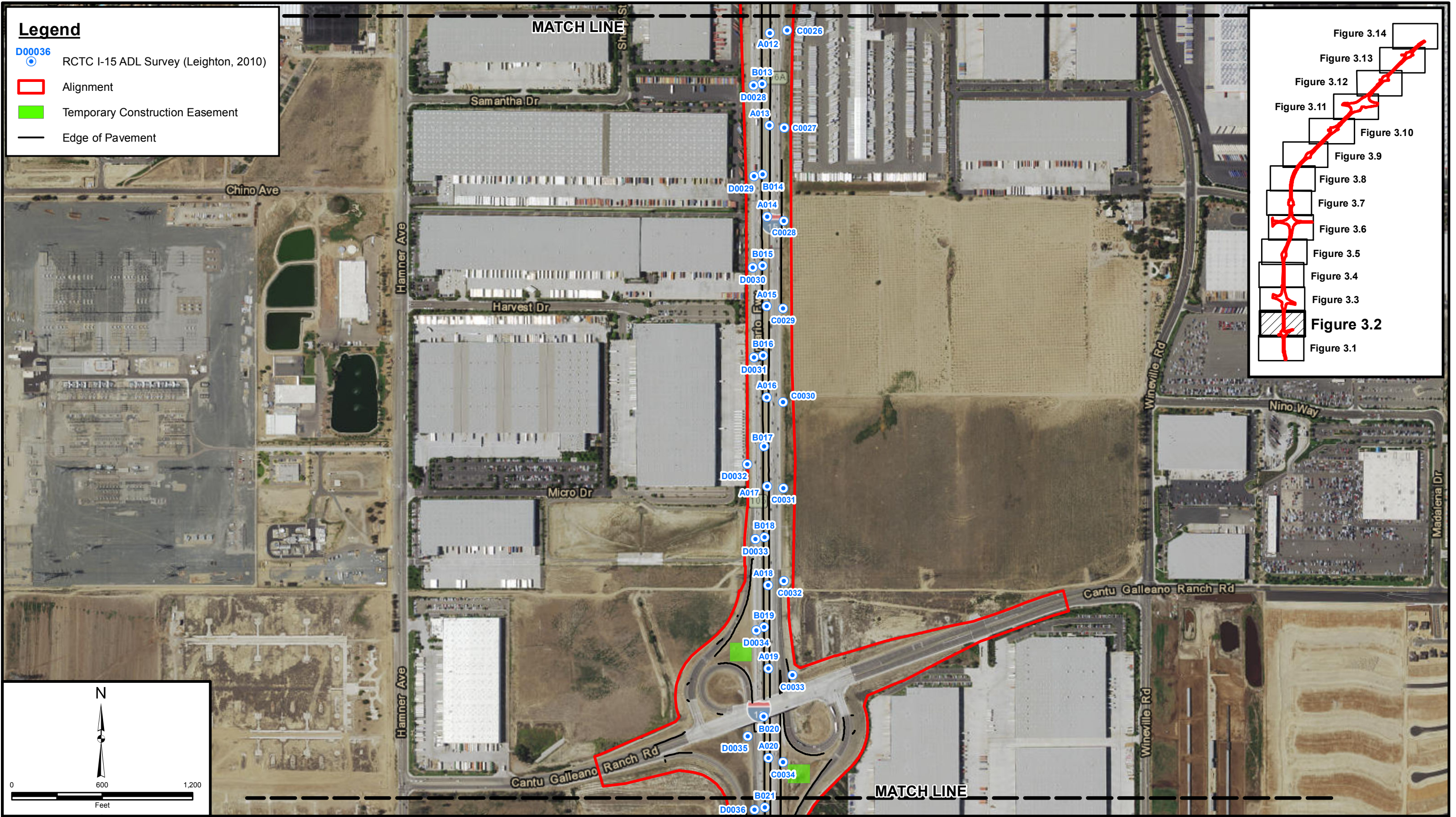
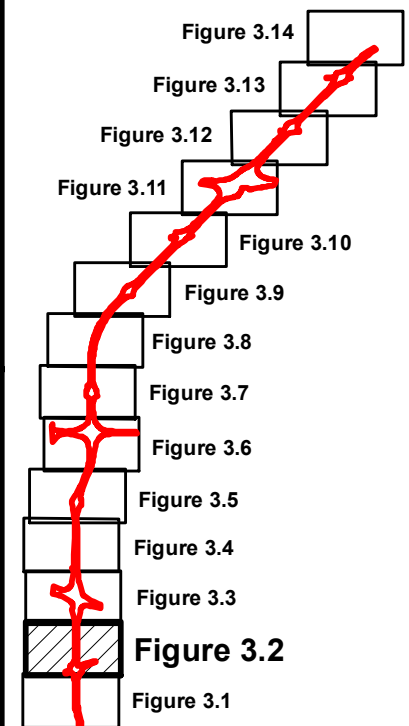
**SITE PLAN DETAIL MAP**

PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 3.1

**Legend**

- D00036 RCTC I-15 ADL Survey (Leighton, 2010)
- Alignment
- Temporary Construction Easement
- Edge of Pavement



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 Author: Leighton Geomatics (mmurphy)



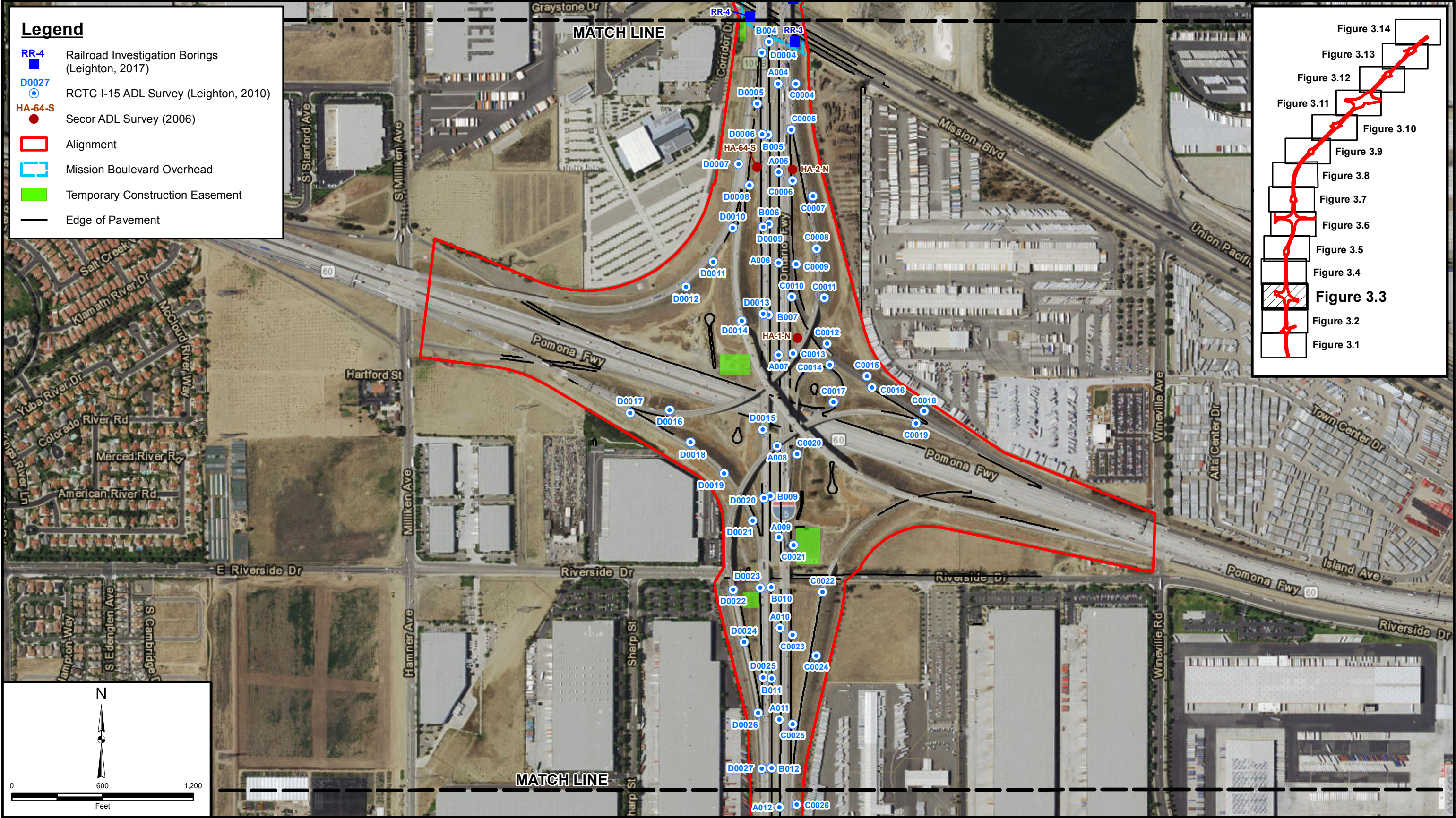
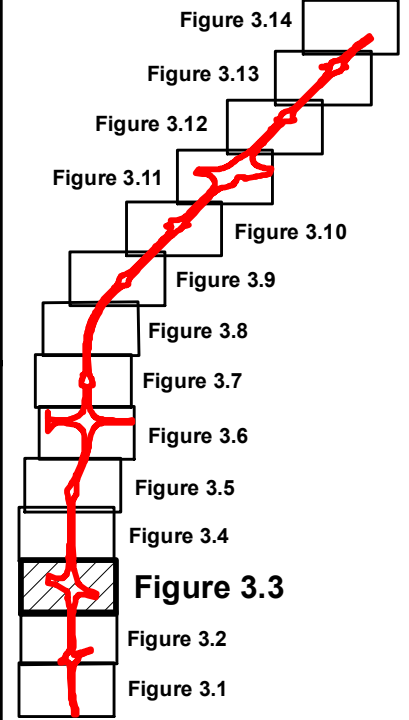
**SITE PLAN DETAIL MAP**

PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 3.2

**Legend**

- RR-4 ■ Railroad Investigation Borings (Leighton, 2017)
- D0027 ○ RCTC I-15 ADL Survey (Leighton, 2010)
- HA-64-S ● Secor ADL Survey (2006)
- Alignment
- Mission Boulevard Overhead
- Temporary Construction Easement
- Edge of Pavement



Project: 603445.100 Eng/Geol: RLO  
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 Thematic Information: Leighton  
 Author: Leighton Geomatics (mmurphy)



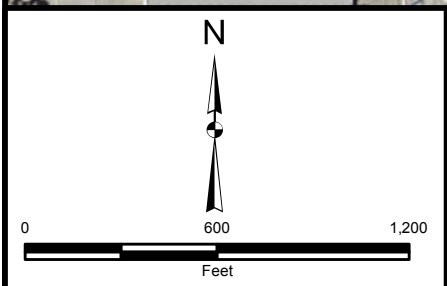
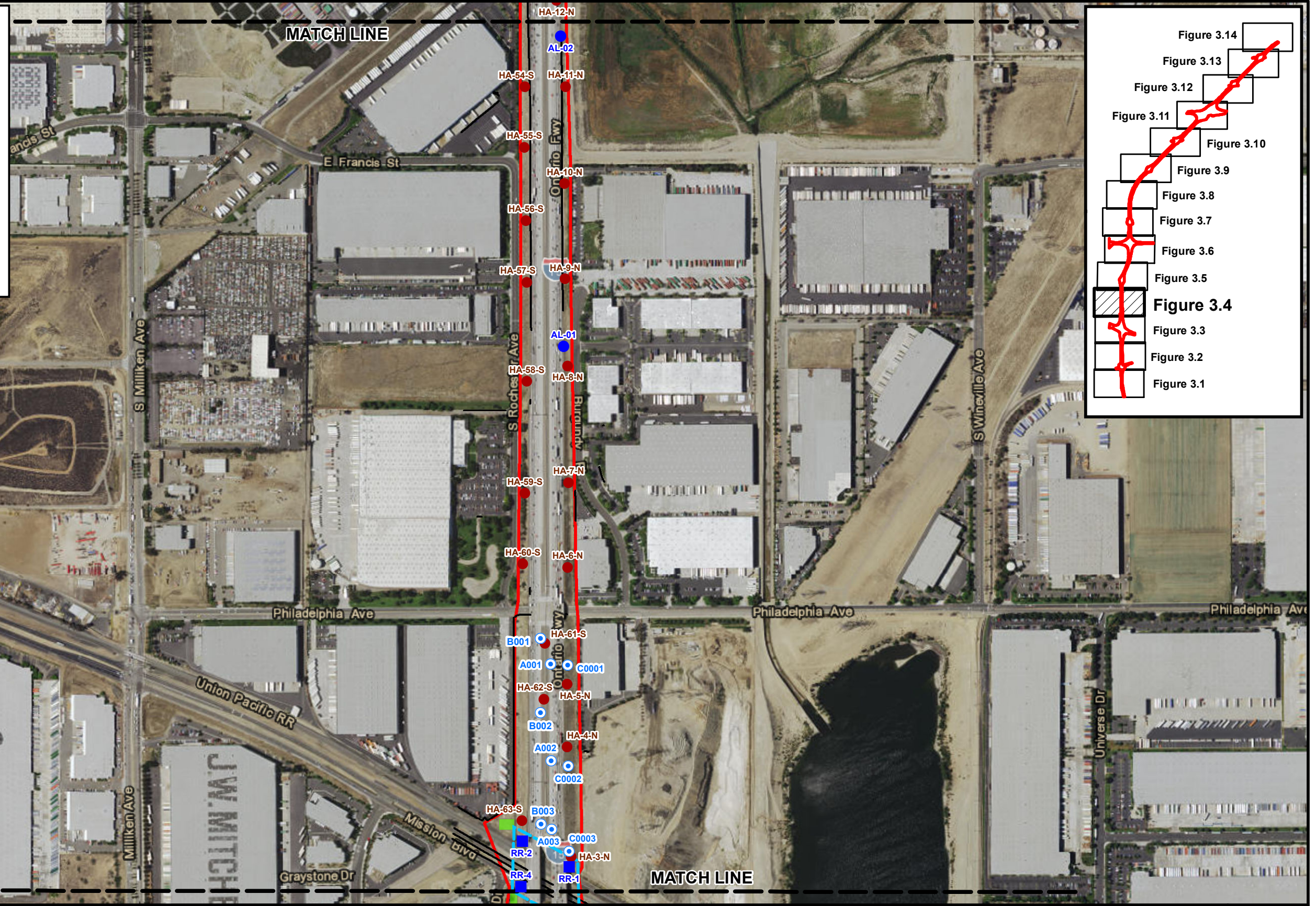
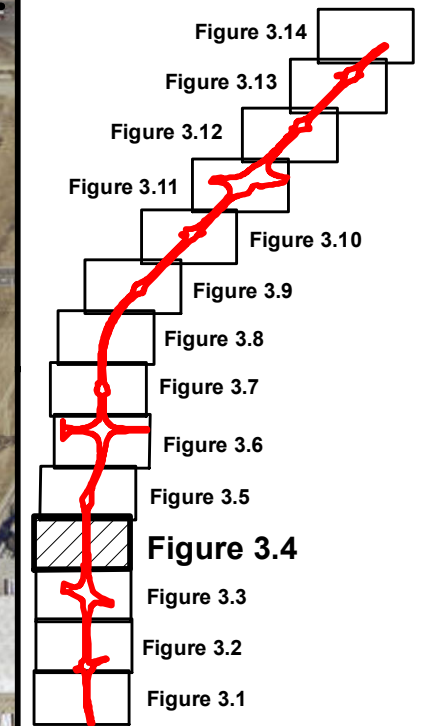
**SITE PLAN DETAIL MAP**

PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 3.3

**Legend**

- AL-4 Boring Locations (Leighton, 2017)
- RR-4 Railroad Investigation Borings (Leighton, 2017)
- C0003 RCTC I-15 ADL Survey (Leighton, 2010)
- HA-63-S Secor ADL Survey (2006)
- Alignment
- Mission Boulevard Overhead
- Temporary Construction Easements
- Edge of Pavement



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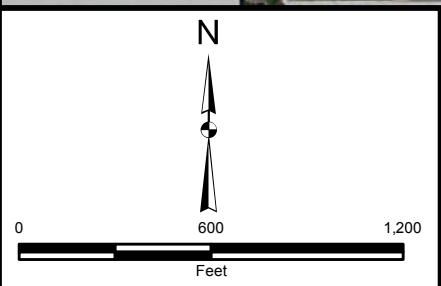
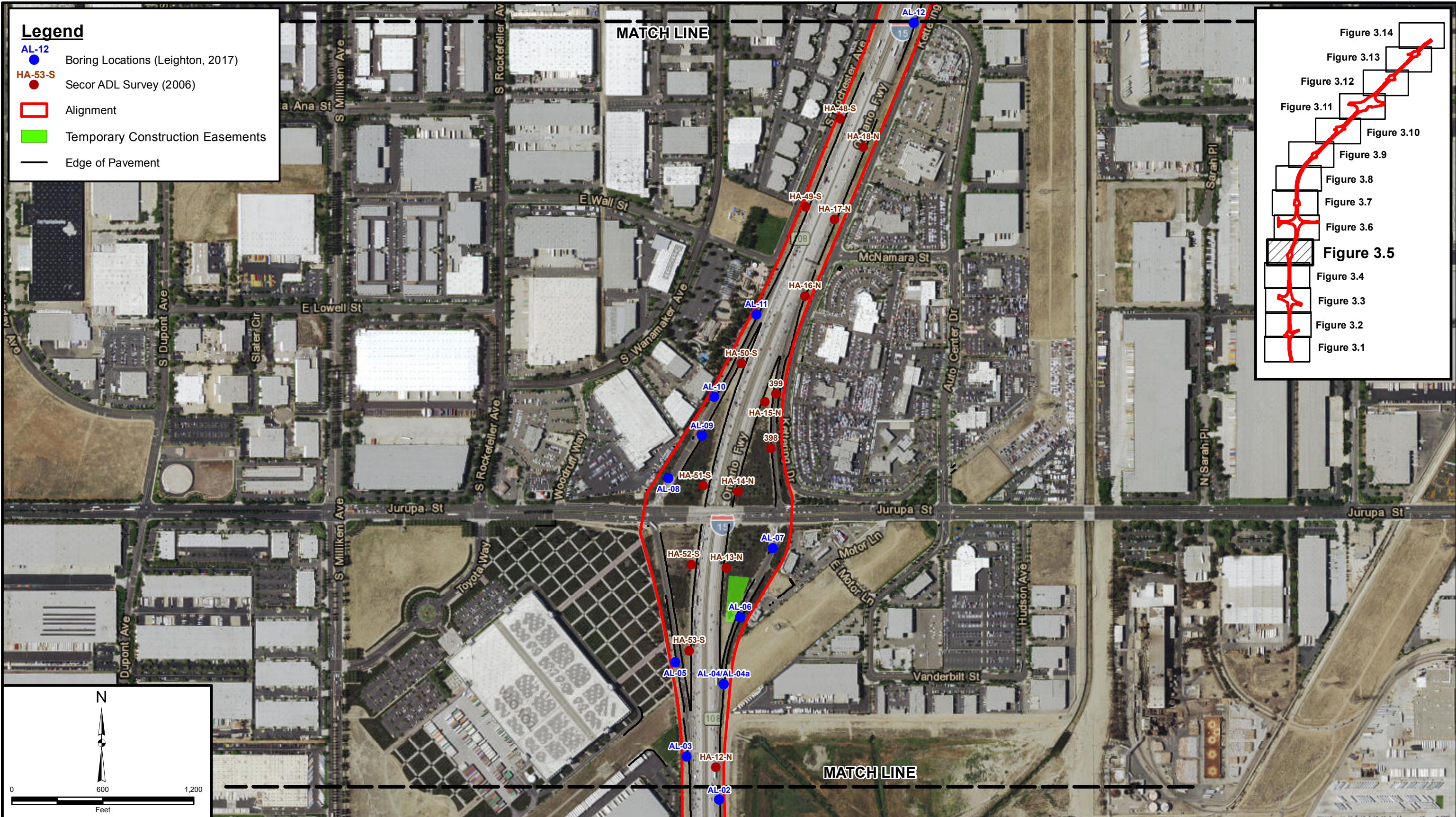
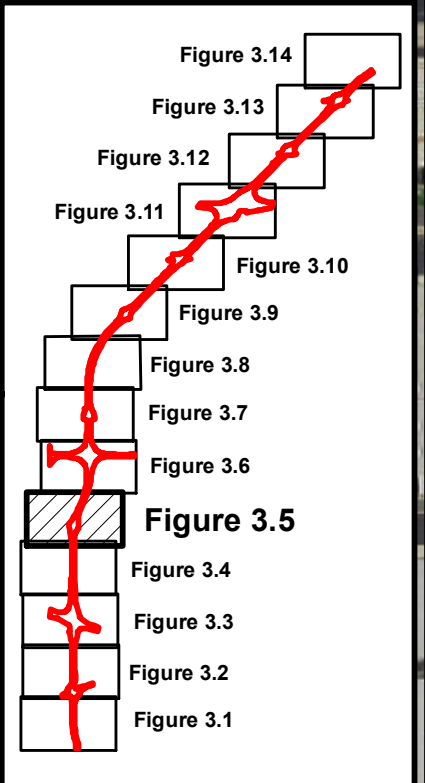
**SITE PLAN DETAIL MAP**

PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 3.4

**Legend**

- AL-12 Boring Locations (Leighton, 2017)
- HA-53-S Secor ADL Survey (2006)
- Alignment
- Temporary Construction Easements
- Edge of Pavement



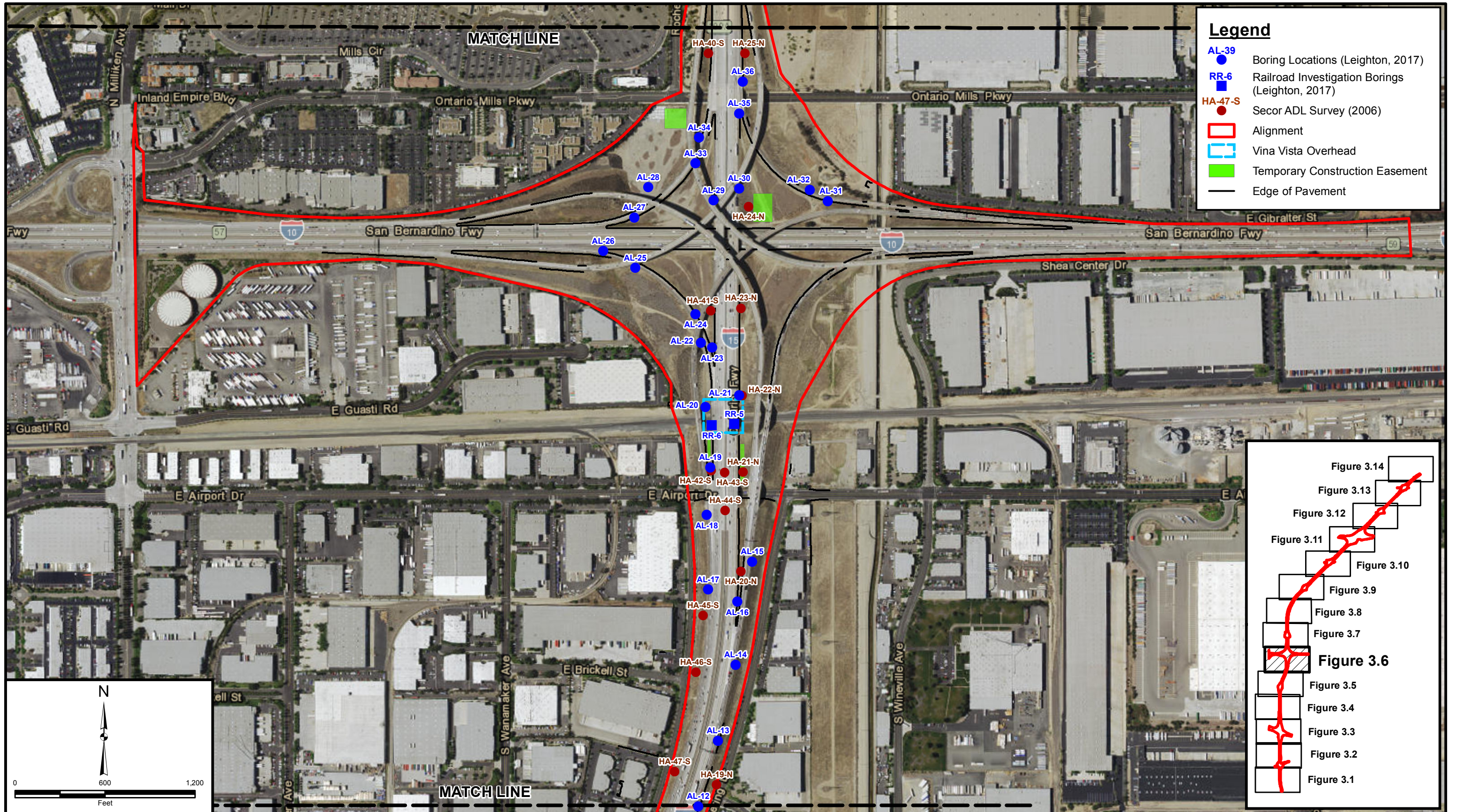
Project: 603445.100 Eng/Geol: RLO  
 Scale: 1" = 600' Date: May 2017  
 Base Map: ESRI ArcGIS Online 2017  
 Thematic Information: Leighton  
 Author: Leighton Geomatics (mmurphy)



**SITE PLAN DETAIL MAP**

PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 3.5



**Legend**

- AL-39 Boring Locations (Leighton, 2017)
- RR-6 Railroad Investigation Borings (Leighton, 2017)
- HA-47-S Secor ADL Survey (2006)
- Alignment
- Vina Vista Overhead
- Temporary Construction Easement
- Edge of Pavement

Figure 3.14

Figure 3.13

Figure 3.12

Figure 3.11

Figure 3.10

Figure 3.9

Figure 3.8

Figure 3.7

**Figure 3.6**

Figure 3.5

Figure 3.4

Figure 3.3

Figure 3.2

Figure 3.1

N

0 600 1,200

Feet

Project: 603445.100 Eng/Geol: RLO

Scale: 1" = 600' Date: May 2017

Base Map: ESRI ArcGIS Online 2017  
 Thematic Information: Leighton  
 Author: Leighton Geomatics (mmurphy)



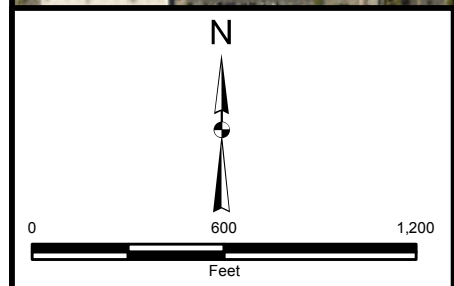
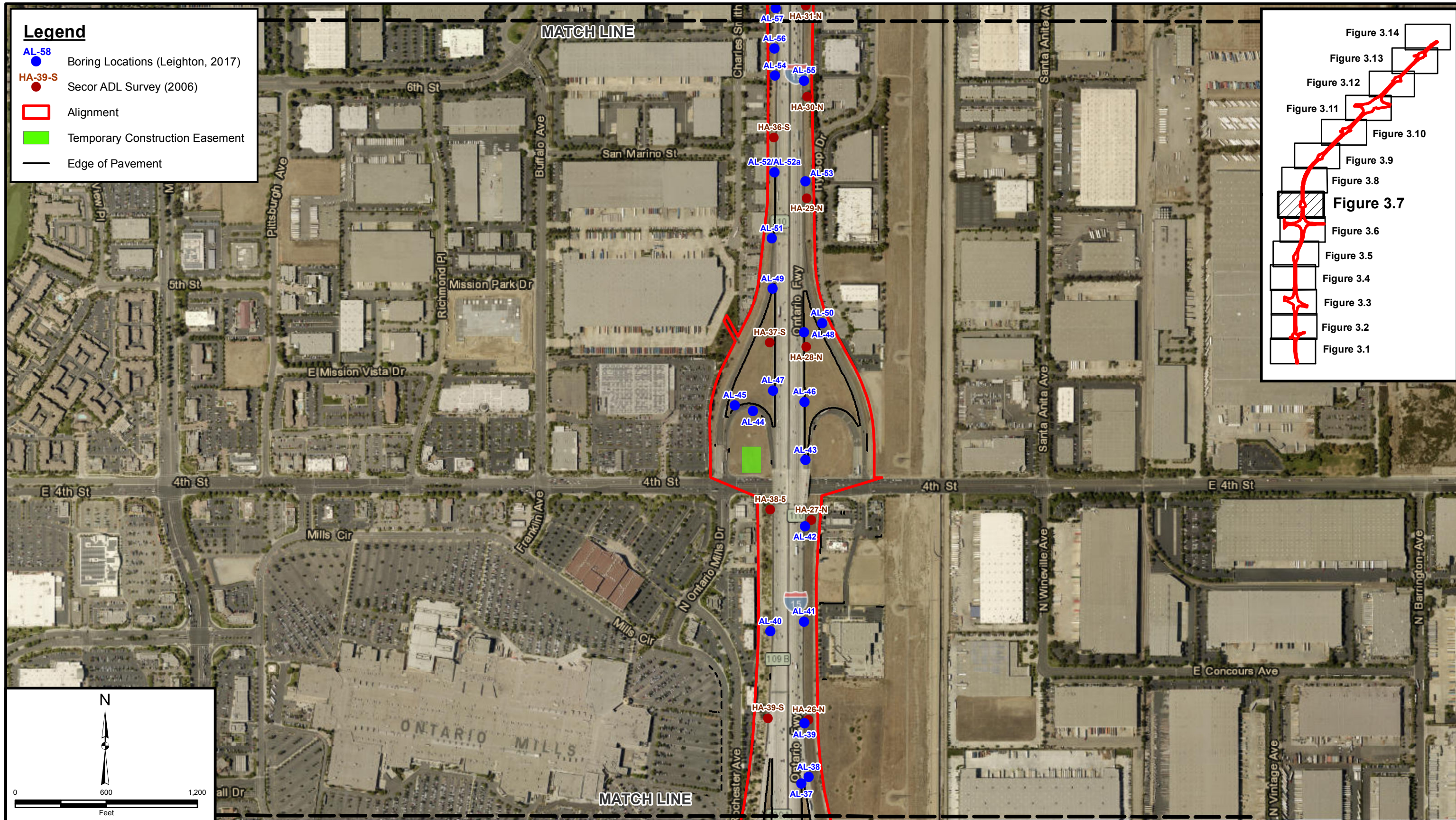
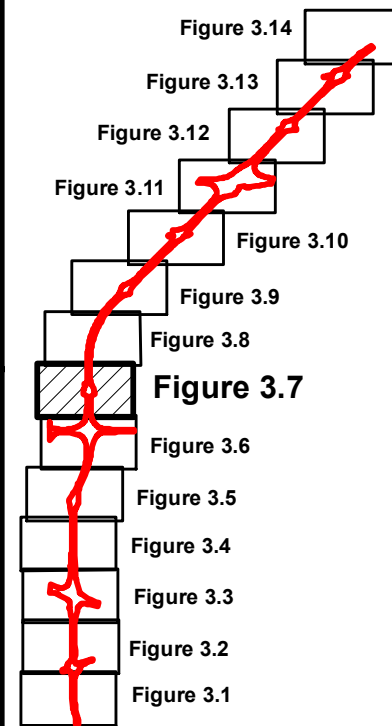
**SITE PLAN DETAIL MAP**

PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 3.6

**Legend**

- AL-58 Boring Locations (Leighton, 2017)
- HA-39-S Secor ADL Survey (2006)
- Alignment
- Temporary Construction Easement
- Edge of Pavement



Project: 603445.100 Eng/Geol: RLO  
 Scale: 1" = 600' Date: May 2017  
 Base Map: ESRI ArcGIS Online 2017  
 Thematic Information: Leighton  
 Author: Leighton Geomatics (mmurphy)



**SITE PLAN DETAIL MAP**

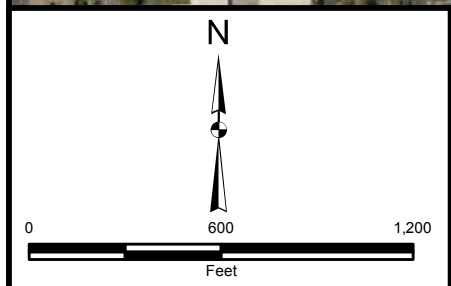
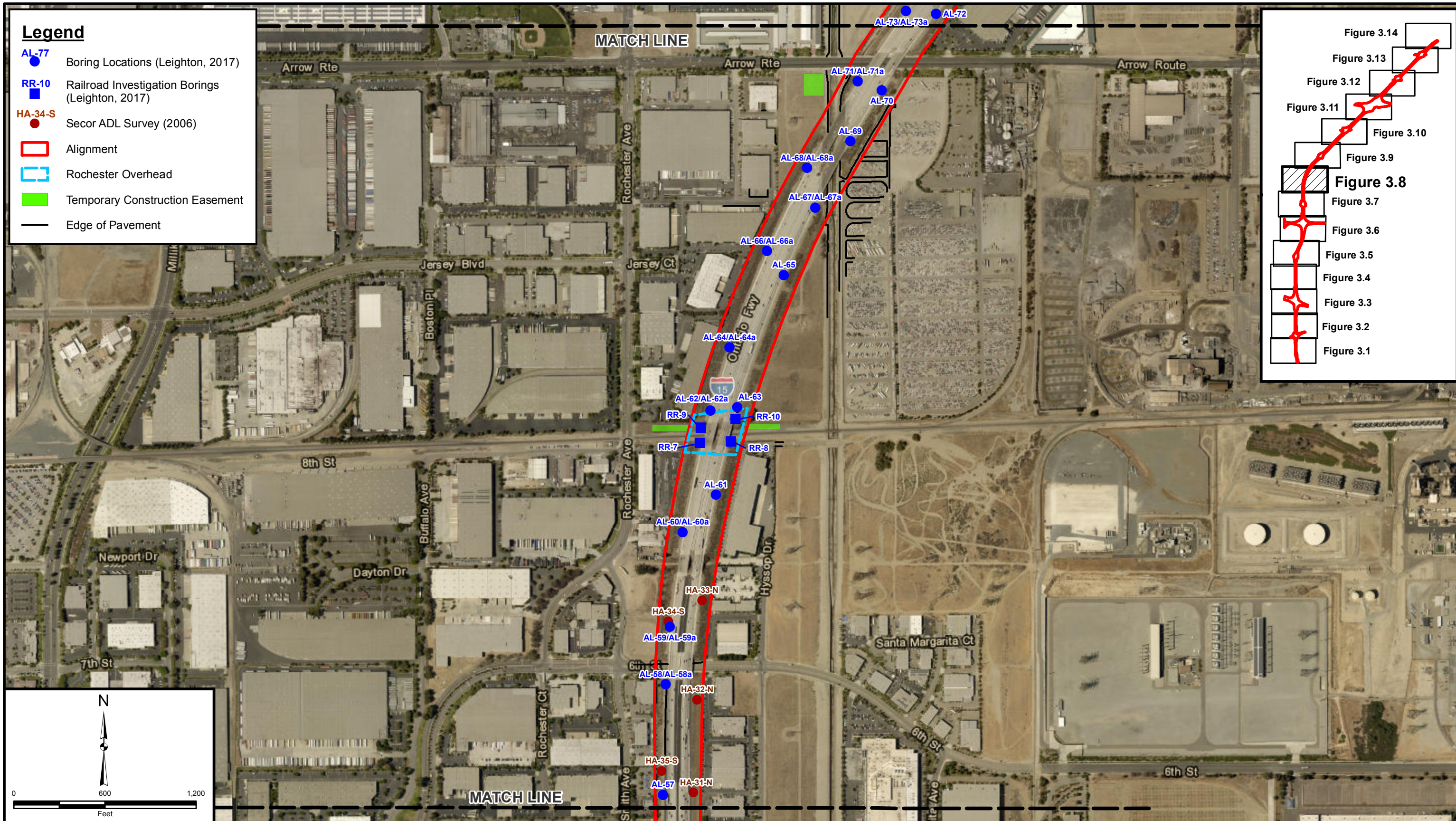
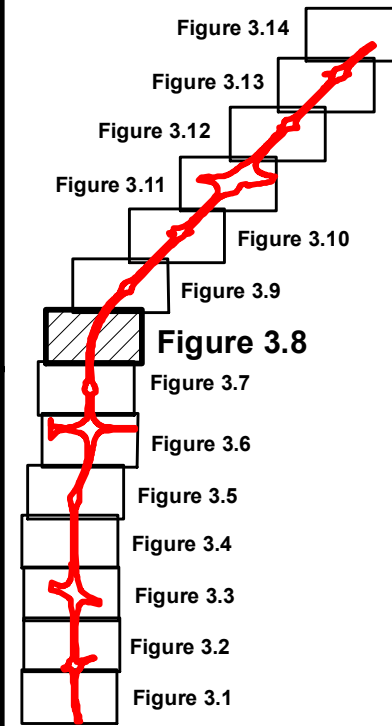
PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 3.7



**Legend**

- AL-77 Boring Locations (Leighton, 2017)
- RR-10 Railroad Investigation Borings (Leighton, 2017)
- HA-34-S Secor ADL Survey (2006)
- Alignment
- Rochester Overhead
- Temporary Construction Easement
- Edge of Pavement



Project: 603445.100 Eng/Geol: RLO  
 Scale: 1" = 600' Date: May 2017  
 Base Map: ESRI ArcGIS Online 2017  
 Thematic Information: Leighton  
 Author: Leighton Geomatics (mmurphy)



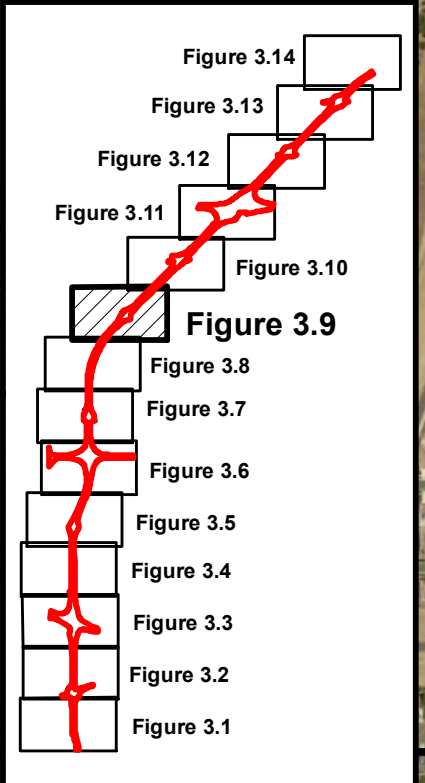
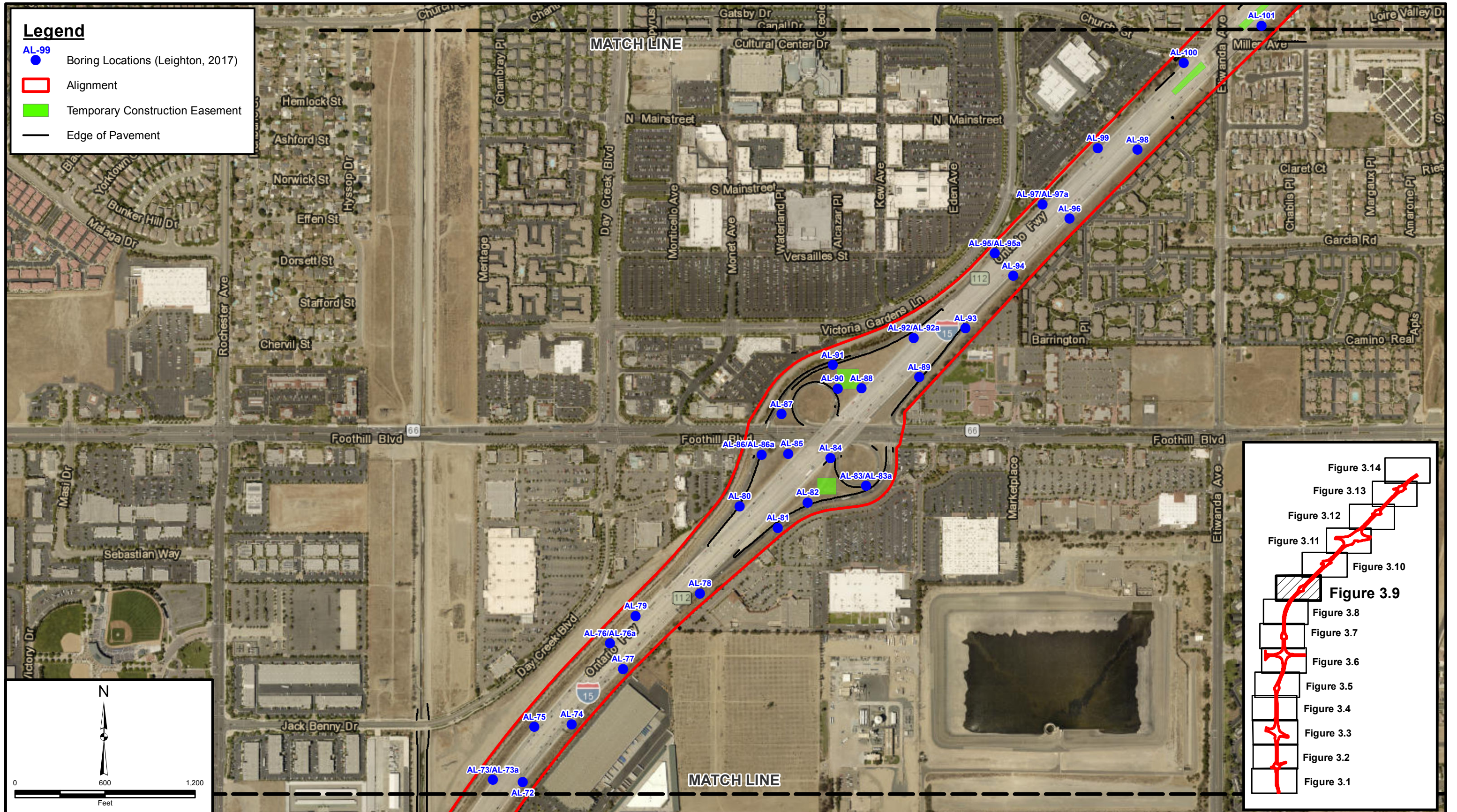
**SITE PLAN DETAIL MAP**

PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 3.8

**Legend**

- AL-99 Boring Locations (Leighton, 2017)
- Alignment
- Temporary Construction Easement
- Edge of Pavement



Project: 603445.100 Eng/Geol: RLO  
 Scale: 1" = 600' Date: May 2017  
 Base Map: ESRI ArcGIS Online 2017  
 Thematic Information: Leighton  
 Author: Leighton Geomatics (mmurphy)



**SITE PLAN DETAIL MAP**

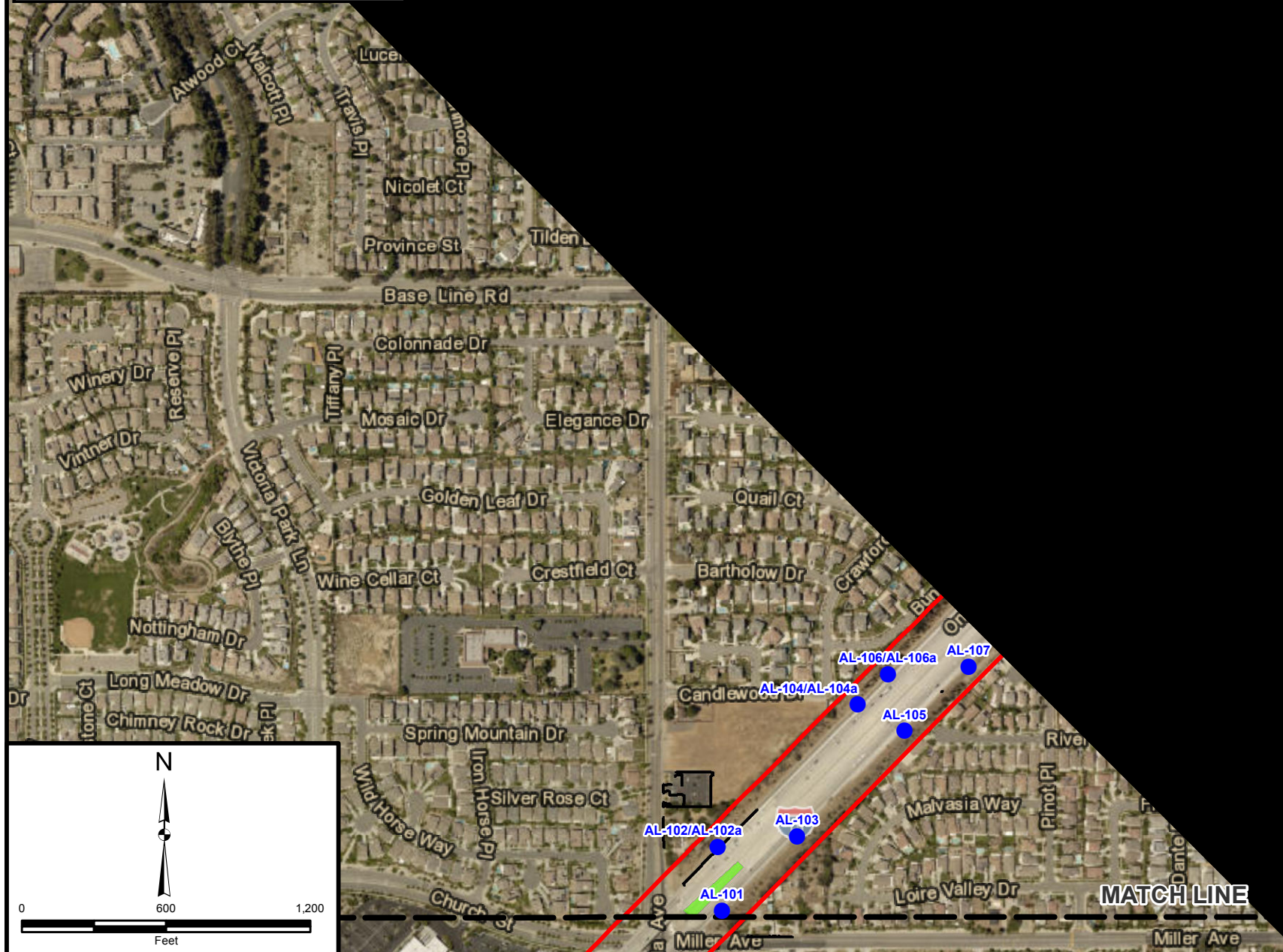
PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 3.9

**Legend**

- AL-130 ● Boring Locations (Leighton, 2017)
- RR-14 ■ Railroad Investigation Borings (Leighton, 2017)
- Alignment
- Etiwanda Overhead
- Temporary Construction Easement
- Edge of Pavement

MATCH LINE



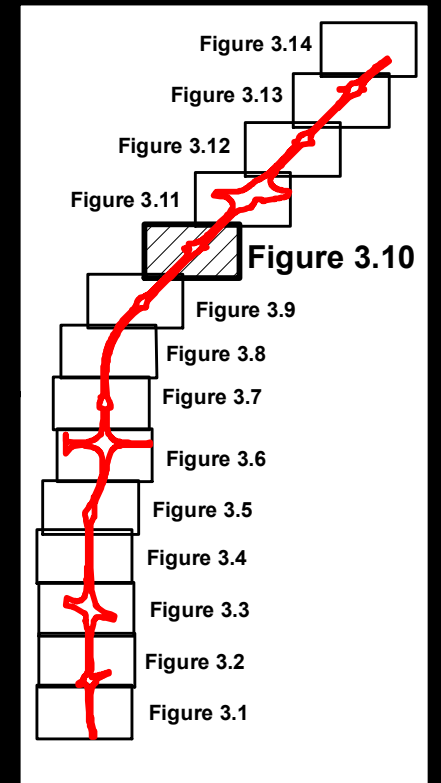
MATCH LINE

Project: 603445.100	Eng/Geol: RLO
Scale: 1" = 600'	Date: May 2017
Base Map: ESRI ArcGIS Online 2017	
Thematic Information: Leighton	
Author: Leighton Geomatics (mmurphy)	



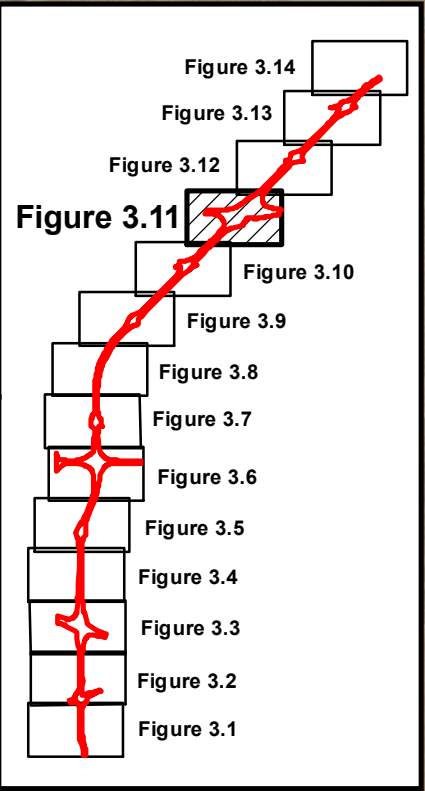
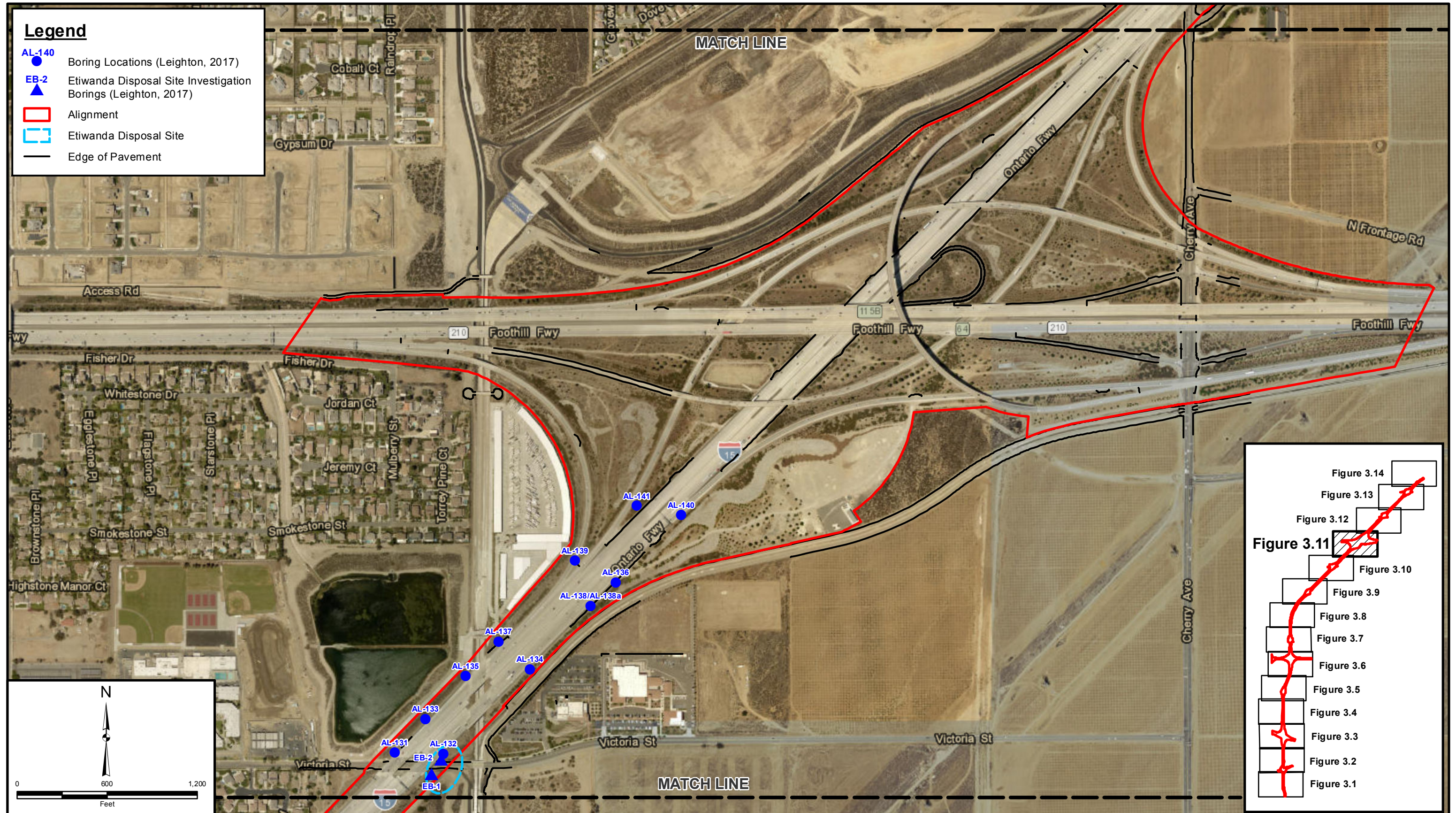
**SITE PLAN DETAIL**

PB/SANBAG I-15 Corridor Project  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino  
 Riverside and San Bernardino Counties



**Legend**

- AL-140 Boring Locations (Leighton, 2017)
- ▲ EB-2 Etiwanda Disposal Site Investigation Borings (Leighton, 2017)
- Alignment
- Etiwanda Disposal Site
- Edge of Pavement



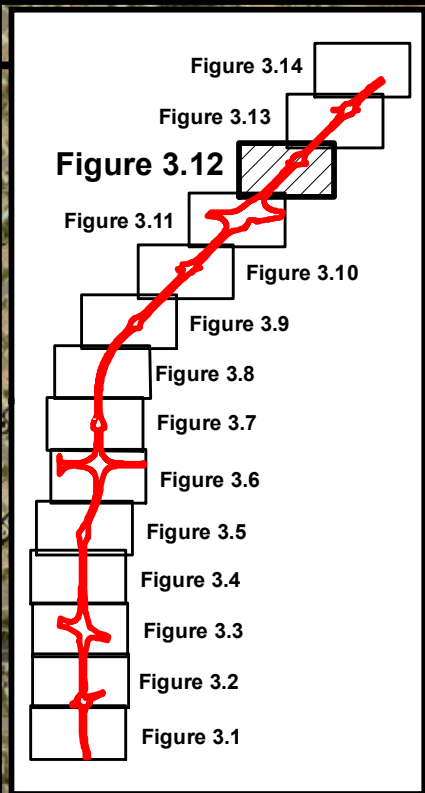
Project: 603445.100 Eng/Geol: RLO  
 Scale: 1" = 600' Date: May 2017  
 Base Map: ESRI ArcGIS Online 2017  
 Thematic Information: Leighton  
 Author: Leighton Geomatics (mmurphy)



**SITE PLAN DETAIL MAP**

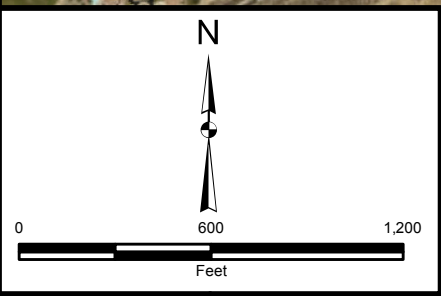
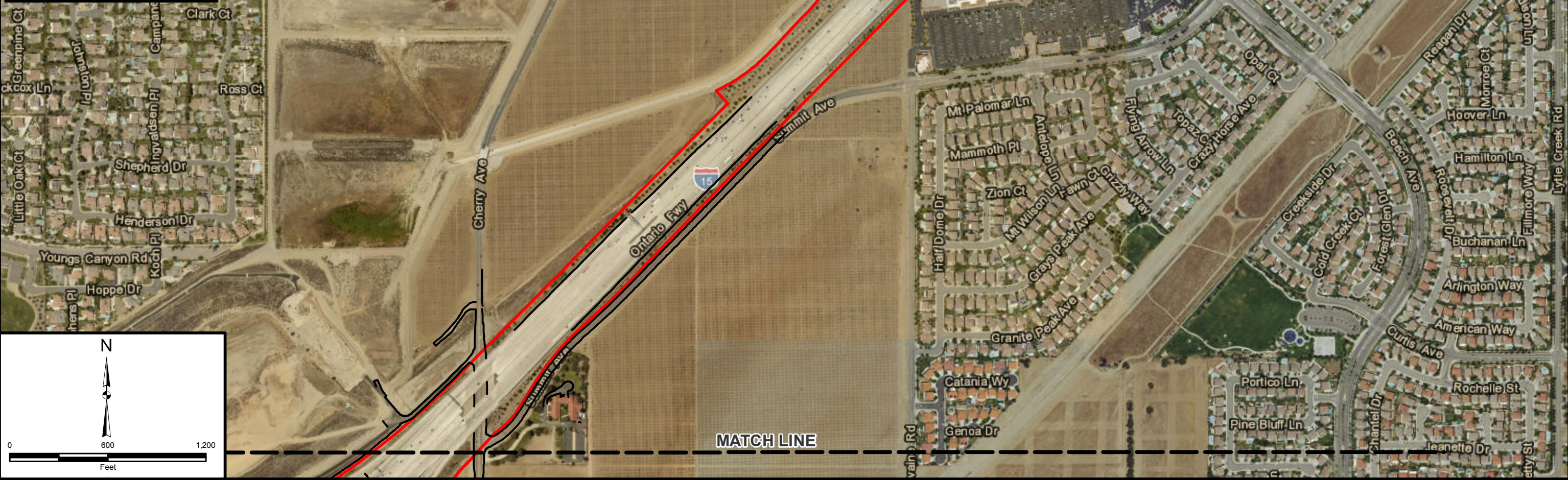
PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 3.11



**Legend**

- Alignment
- Edge of Pavement



Project: 603445.100 Eng/Geol: RLO  
 Scale: 1" = 600' Date: April 2017  
 Base Map: ESRI ArcGIS Online 2017  
 Thematic Information: Leighton  
 Author: Leighton Geomatics (mmurphy)



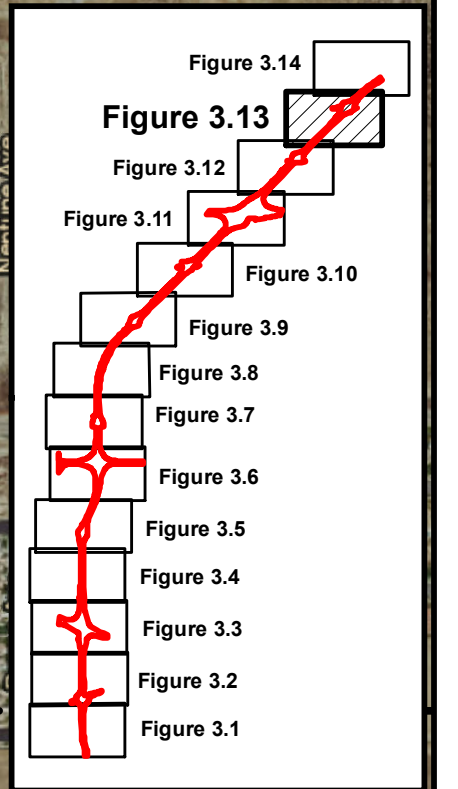
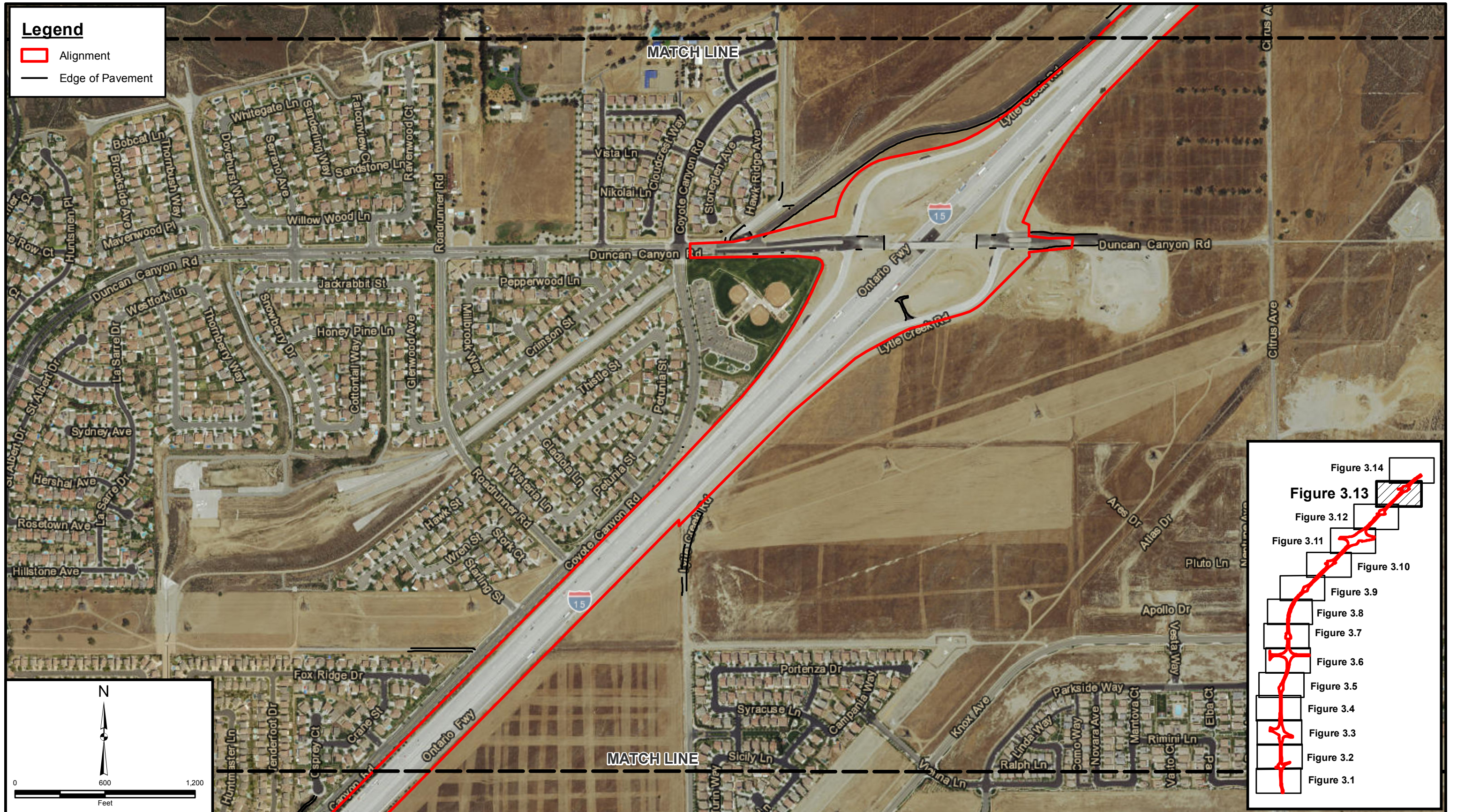
**SITE PLAN DETAIL MAP**

PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 3.12

**Legend**

- Alignment
- Edge of Pavement



Project: 603445.100 Eng/Geol: RLO  
 Scale: 1" = 600' Date: April 2017  
 Base Map: ESRI ArcGIS Online 2017  
 Thematic Information: Leighton  
 Author: Leighton Geomatics (mmurphy)



**SITE PLAN DETAIL MAP**

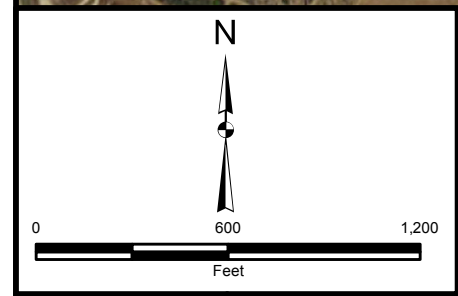
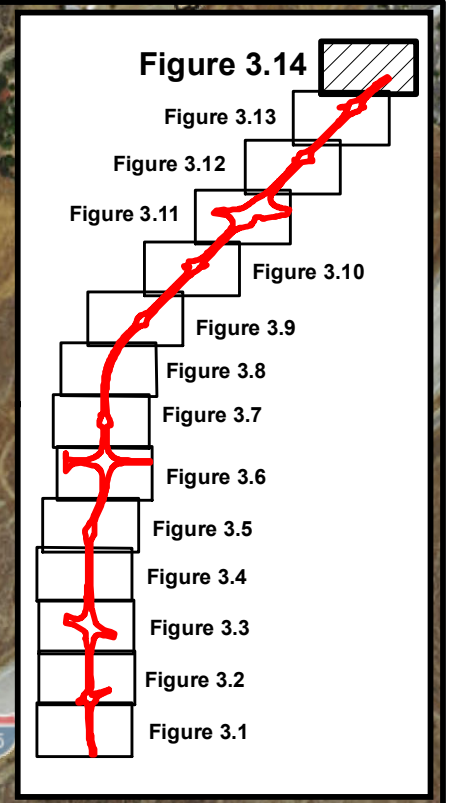
PB/SANBAG I-15 Corridor Project ISA  
 Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
 Riverside and San Bernardino Counties, California

Figure 3.13



**Legend**

 Alignment



Project: 603445.100 Eng/Geol: RLO  
Scale: 1" = 600' Date: April 2017  
Base Map: ESRI ArcGIS Online 2017  
Thematic Information: Leighton  
Author: Leighton Geomatics (mmurphy)



**SITE PLAN DETAIL MAP**

PB/SANBAG I-15 Corridor Project ISA  
Riverside County I-15 Milepost 48.9 through 52.3 San Bernardino County I-15 Milepost 0.0 through 12.6,  
Riverside and San Bernardino Counties, California

Figure 3.14

**Table 1**  
**Summary of Sampling and Analysis Program**  
 I-15 ADL Survey  
 Riverside County Milepost 49.8 - 52.3  
 San Bernardino County Milepost 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

<i>Sample Location/ Number</i>	<b>General Parameters</b>	<b>Test Method of Analyses</b>	<b>Container</b>	<b>Preservative</b>	<b>Holding Time</b>
<p><b>Aerially Deposited Lead Survey</b>            Five hundred fifty-four (554) primary soil samples were collected from 141 locations (AL-01 through AL-141) along the eastern and western shoulders of Interstate 15. Soil samples were collected from depths of 0.5 feet, 1.0 feet, 2.5 feet, and 5.0 feet bgs or depth of refusal. Samples were analyzed for total lead. Thirty-five (35) samples were analyzed for pH.</p> <p>Samples with total lead above 50 mg/kg but less than 1,000 mg/kg were analyzed for soluble lead by the California Waste Extraction method using citric acid (WET-CA). Samples that exhibit a WET-CA lead concentration <math>\geq 5</math> mg/L were analyzed with an additional WET method using deionized water (WET-DI).</p> <p><b>(See Figures 3.1 through 3.14 for sample locations.)</b></p>	Total Lead	EPA 6010B	Acetate sleeve or 4 oz glass jar	4 °C	180 days
	pH	EPA 9045			180 days
	STLC Lead	WET Citric Acid			180 days
	WET-DI Lead	WET Deionized Water			180 days
<p><b>Agricultural Investigation</b>            Thirty-two (32) primary soil samples were collected from eight locations (AL-03, AL-12, AL-25, AL-42, AL-48, AL-52, AL-81, and AL-109) along the eastern and western shoulders of Interstate 15. Soil samples were collected from depths of 0.5 foot, 1.0 foot, 2.5 feet, and 5.0 feet bgs or depth of refusal. Samples were analyzed for total arsenic and organochlorine pesticides.</p> <p><b>(See Figures 3.1 through 3.14 for sample locations.)</b></p>	OCPs	EPA 8081A	Acetate sleeve or 4oz glass jar	4 °C	14 days
	Total Arsenic	EPA 6010B			180 days



**Table 1**  
**Summary of Sampling and Analysis Program**  
 I-15 ADL Survey  
 Riverside County Milepost 49.8 - 52.3  
 San Bernardino County Milepost 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

<i>Sample Location/ Number</i>	<b>General Parameters</b>	<b>Test Method of Analyses</b>	<b>Container</b>	<b>Preservative</b>	<b>Holding Time</b>
<b>Railroad Investigation</b> Fifty-three (53) primary soil samples were collected from 14 locations (RR-01 through RR-14) from the bases of the railroad bridge abutments. Soil samples were collected from depths of 0.5 foot, 1.0 foot, 2.5 feet, and 5.0 feet bgs. Samples were analyzed for Title 22 Metals, polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), organochlorine pesticides (OCPs) and petroleum hydrocarbons (TPH).	Title 22 Metals	EPA 6010B/7471A	Acetate sleeve or 4 oz glass jar	4 °C	180 days
	OCPs	EPA 8081A			14 days
	PAHs	EPA 8310			14 days
	PCBs	EPA 8082			14 days
	TPH	EPA 8015M			14 days
<b>Etiwanda Disposal Site Investigation</b> Eight (8) primary soil samples were collected from two locations (EB-01 and EB-02) from the northern and southern shoulders of Victoria Avenue, adjacent to the east of I-15. Soil samples were collected from depths of 0.5 foot, 1.0 foot, 2.5 feet, and 5.0 feet bgs or depth of refusal. Samples were analyzed for Title 22 Metals, polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and petroleum hydrocarbons (TPH).	Title 22 metals	EPA 6010B/7471A	Acetate sleeve or 4 oz glass jar	4 °C	180 days
	PAHs	EPA 8310			14 days
	TPH	EPA 8015M			14 days
	PCBs	EPA 8082			14 days

**Table 1**  
**Summary of Sampling and Analysis Program**  
 I-15 ADL Survey  
 Riverside County Milepost 49.8 - 52.3  
 San Bernardino County Milepost 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

<b>QA/QC SAMPLES</b>					
Sample Description	General Parameters	Test Method of Analyses	Container	Preservative	Holding Time
<p><b>Duplicate Samples</b> were collected at a minimum 5% rate of the primary samples. Thirty-two (32) duplicate samples were collected from eight locations along the eastern and western shoulders of Interstate 15 for the ADL investigation. Eight (8) duplicate samples were collected from two locations for the agricultural investigation, four (4) duplicate samples were collected from one location for the railroad abutment investigation, and four (4) duplicate samples were collected from one location for the Etiwanda Disposal Site investigation. Soil samples were collected from depths of 0.5 foot, 1.0 foot, 2.5 feet, and 5.0 feet bgs or depth of refusal. The duplicates were analyzed for the same analytes as the primary sample. Field duplicate samples were designated with 100-series numbers (e.g., AL-153) or with a "d" (e.g. AL-112d). ADL samples with total lead above 50 mg/kg but less than 1,000 mg/kg were analyzed for soluble lead by the WET-CA method. Samples that exhibit a lead concentration <math>\geq 5</math> mg/L were analyzed using the WET-DI method.</p> <p>(See Figures 3.1 through 3.14 for sample locations.)</p>	Title 22 metals	EPA 6010B/7471A	Acetate sleeve or 4 oz glass jar	4 °C	180 days
	pH	EPA 9045			180 days
	WET-citric Lead	WET Citric Acid			180 days
	WET-DI Lead	WET Deionized Water			180 days
	PAHs	EPA 8310			180 days
	TPH	EPA 8015M			14 days
	OCPs	EPA 8081A			14 days
	PCBs	EPA 8082			14 days

**Table 1**  
**Summary of Sampling and Analysis Program**  
 I-15 ADL Survey  
 Riverside County Milepost 49.8 - 52.3  
 San Bernardino County Milepost 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

<b>Equipment Blanks</b> were collected at the end of each sampling day by pouring distilled water through each decontaminated sampling device and collecting the water in an appropriate sample container. Equipment blank samples collected from drilling equipment were designated as 100-x-series (e.g., 100-1, 100-2, etc). Equipment blank samples collected from the hand auger were designated as 200-x-series (e.g., 200-1, 200-2, etc).	Title 22 Metals	EPA 6010B/7471A	1 - 500-mL poly	HNO <sub>3</sub>	180 days
	PAHs	EPA 8310	1L Amber	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7 days
	TPH	EPA 8015M	1L Amber	H <sub>2</sub> SO <sub>4</sub>	14 days
	OCPs	EPA 8081A	1L Amber		
	PCBs	EPA 8082	1L Amber		

Table 2  
Summary of Lead in Soil  
I-15 SI/ADL Survey  
Riverside County MP 49.8 - 52.3  
San Bernardino County MP 0.0 - 12.2  
Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

Sample ID	Depth (feet)	Date	TTLIC Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
<b>Aerially Deposited Lead</b>								
AL-01-0.5	0.0-0.5	3/14/2017	<b>10.8</b>	-	-	-	-	1
AL-01-1.0	0.5-1.0	3/14/2017	<b>3.28</b>	-	-	-	-	1
AL-01-2.5	2.0-2.5	3/14/2017	<b>4.59</b>	-	-	-	-	1
AL-01-5.0	4.5-5.0	3/14/2017	<b>1.98</b>	-	-	-	-	1
AL-02-0.5	0.0-0.5	3/14/2017	<b>7.83</b>	-	-	-	-	1
AL-02-1.0	0.5-1.0	3/14/2017	<b>2.16</b>	-	-	-	-	1
AL-02-2.5	2.0-2.5	3/14/2017	<b>2.90</b>	-	-	-	-	1
AL-02-5.0	4.5-5.0	3/14/2017	<b>4.08</b>	-	-	-	-	1
AL-03-0.5	0.0-0.5	3/20/2017	<b>6.16</b>	<b>0.306</b>	-	-	<b>8.31</b>	1
AL-03-1.0	0.5-1.0	3/20/2017	<b>6.78</b>	<b>0.139</b>	-	-	<b>8.10</b>	1
AL-03-2.5	2.0-2.5	3/20/2017	<b>2.89</b>	<0.02	-	-	<b>8.02</b>	1
AL-03-5.0	4.5-5.0	3/20/2017	<b>1.89</b>	<0.02	-	-	<b>7.97</b>	1
AL-04-0.5	0.0-0.5	4/4/2017	<b>35.1</b>	-	-	-	-	1
AL-04-1.0	0.5-1.0	4/4/2017	<b>5.12</b>	-	-	-	-	1
AL-04a-0.5	0.0-0.5	4/4/2017	<b>11.5</b>	-	-	-	-	1
AL-04a-1.0	0.5-1.0	4/4/2017	<b>3.69</b>	-	-	-	-	1
AL-05-0.5	0.0-0.5	3/20/2017	<b>8.74</b>	-	-	-	-	1
AL-05-1.0	0.5-1.0	3/20/2017	<b>5.60</b>	-	-	-	-	1
AL-05-2.5	2.0-2.5	3/20/2017	<b>3.19</b>	-	-	-	-	1
AL-05-5.0	4.5-5.0	3/20/2017	<b>2.03</b>	-	-	-	-	1
AL-06-0.5	0.0-0.5	3/14/2017	<b>14.0</b>	-	-	-	-	1
AL-06-1.0	0.5-1.0	3/14/2017	<b>5.29</b>	-	-	-	-	1
AL-06-2.5	2.0-2.5	3/14/2017	<b>1.91</b>	-	-	-	-	1
AL-06-5.0	4.5-5.0	3/14/2017	<b>1.93</b>	-	-	-	-	1
AL-07-0.5	0.0-0.5	3/14/2017	<b>6.28</b>	-	-	-	-	1
AL-07-1.0	0.5-1.0	3/14/2017	<b>3.56</b>	-	-	-	-	1
AL-07-2.5	2.0-2.5	3/14/2017	<b>6.03</b>	-	-	-	-	1
AL-07-5.0	4.5-5.0	3/14/2017	<b>2.01</b>	-	-	-	-	1
AL-08-0.5	0.0-0.5	3/20/2017	<b>8.14</b>	<b>0.078</b>	-	-	-	1
AL-08-1.0	0.5-1.0	3/20/2017	<b>7.19</b>	<b>0.266</b>	-	-	-	1
AL-08-2.5	2.0-2.5	3/20/2017	<b>2.13</b>	<b>0.218</b>	-	-	-	1
AL-08-5.0	4.5-5.0	3/20/2017	<b>4.62</b>	<0.02	-	-	-	1
AL-09-0.5	0.0-0.5	3/20/2017	<b>5.99</b>	-	-	-	-	1
AL-09-1.0	0.5-1.0	3/20/2017	<b>11.2</b>	-	-	-	-	1
AL-09-2.5	2.0-2.5	3/20/2017	<b>6.82</b>	-	-	-	-	1
AL-09-5.0	4.5-5.0	3/20/2017	<b>2.38</b>	-	-	-	-	1
AL-10-0.5	0.0-0.5	3/20/2017	<b>9.31</b>	-	-	-	-	1
AL-10-1.0	0.5-1.0	3/20/2017	<b>70.6</b>	<b>0.870</b>	-	-	-	1
AL-10-2.5	2.0-2.5	3/20/2017	<b>2.43</b>	-	-	-	-	1

Table 2  
 Summary of Lead in Soil  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-10-5.0	4.5-5.0	3/20/2017	3.08	-	-	-	-	1
AL-11-0.5	0.0-0.5	3/20/2017	25.6	-	-	-	-	1
AL-11-1.0	0.5-1.0	3/20/2017	27.8	-	-	-	-	1
AL-11-2.5	2.0-2.5	3/20/2017	3.15	-	-	-	-	1
AL-11-5.0	4.5-5.0	3/20/2017	10.9	-	-	-	-	1
AL-12-0.5	0.0-0.5	3/14/2017	7.64	0.426	-	-	8.07	1
AL-12-1.0	0.5-1.0	3/14/2017	2.20	<0.02	-	-	8.12	1
AL-12-2.5	2.0-2.5	3/14/2017	3.41	<0.02	-	-	7.53	1
AL-12-5.0	4.5-5.0	3/14/2017	3.18	<0.02	-	-	7.44	1
AL-13-0.5	0.0-0.5	3/14/2017	3.25	-	-	-	-	1
AL-13-1.0	0.5-1.0	3/14/2017	4.75	-	-	-	-	1
AL-13-2.0	2.0-2.5	3/14/2017	4.26	-	-	-	-	1
AL-13-5.0	4.5-5.0	3/14/2017	2.08	-	-	-	-	1
AL-14-0.5	0.0-0.5	3/14/2017	5.36	-	-	-	-	1
AL-14-1.0	0.5-1.0	3/14/2017	1.97	-	-	-	-	1
AL-14-2.5	2.0-2.5	3/14/2017	1.95	-	-	-	-	1
AL-14-5.0	4.5-5.0	3/14/2017	3.17	-	-	-	-	1
AL-15-0.5	0.0-0.5	3/14/2017	26.0	-	-	-	-	1
AL-15-1.0	0.5-1.0	3/14/2017	4.46	-	-	-	-	1
AL-15-2.5	2.0-2.5	3/14/2017	6.42	-	-	-	-	1
AL-15-5.0	4.5-5.0	3/14/2017	6.33	-	-	-	-	1
AL-16-0.5	0.0-0.5	3/14/2017	21.8	-	-	-	-	1
AL-16-1.0	0.5-1.0	3/14/2017	11.1	-	-	-	-	1
AL-16-2.5	2.0-2.5	3/14/2017	4.42	-	-	-	-	1
AL-16-5.0	4.5-5.0	3/14/2017	5.80	-	-	-	-	1
AL-17-0.5	0.0-0.5	3/20/2017	3.83	0.106	-	-	-	1
AL-17-1.0	0.5-1.0	3/20/2017	3.81	<0.02	-	-	-	1
AL-17-2.5	2.0-2.5	3/20/2017	2.28	<0.02	-	-	-	1
AL-17-5.0	4.5-5.0	3/20/2017	2.45	<0.02	-	-	-	1
AL-18-0.5	0.0-0.5	3/20/2017	3.98	-	-	-	-	1
AL-18-1.0	0.5-1.0	3/20/2017	3.13	-	-	-	-	1
AL-18-2.5	2.0-2.5	3/20/2017	2.49	-	-	-	-	1
AL-18-5.0	4.5-5.0	3/20/2017	2.05	-	-	-	-	1
AL-19-0.5	0.0-0.5	3/16/2017	4.13	-	-	-	-	1
AL-19-1.0	0.5-1.0	3/16/2017	2.75	-	-	-	-	1
AL-19-2.5	2.0-2.5	3/16/2017	14.6	-	-	-	-	1
AL-19-5.0	4.5-5.0	3/16/2017	2.44	-	-	-	-	1
AL-20-0.5	0.0-0.5	3/20/2017	4.59	-	-	-	-	1
AL-20-1.0	0.5-1.0	3/20/2017	2.69	-	-	-	-	1
AL-20-2.5	2.0-2.5	3/20/2017	3.11	-	-	-	-	1

Table 2  
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 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-20-5.0	4.5-5.0	3/20/2017	3.13	-	-	-	-	1
AL-21-0.5	0.0-0.5	3/14/2017	5.73	-	-	-	-	1
AL-21-1.0	0.5-1.0	3/14/2017	4.04	-	-	-	-	1
AL-21-2.5	2.0-2.5	3/14/2017	2.48	-	-	-	-	1
AL-21-5.0	4.5-5.0	3/14/2017	3.34	-	-	-	-	1
AL-22-0.5	0.0-0.5	3/16/2017	25.0	-	-	-	-	1
AL-22-1.0	0.5-1.0	3/16/2017	3.70	-	-	-	-	1
AL-22-2.5	2.0-2.5	3/16/2017	3.23	-	-	-	-	1
AL-22-5.0	4.5-5.0	3/16/2017	2.84	-	-	-	-	1
AL-23-0.5	0.0-0.5	3/16/2017	11.6	-	-	-	-	1
AL-23-1.0	0.5-1.0	3/16/2017	4.61	-	-	-	-	1
AL-23-2.5	2.0-2.5	3/16/2017	3.56	-	-	-	-	1
AL-23-5.0	4.5-5.0	3/16/2017	3.28	-	-	-	-	1
AL-24-0.5	0.0-0.5	3/16/2017	3.13	-	-	-	-	1
AL-24-1.0	0.5-1.0	3/16/2017	4.10	-	-	-	-	1
AL-24-2.5	2.0-2.5	3/16/2017	6.65	-	-	-	-	1
AL-24-5.0	4.5-5.0	3/16/2017	4.91	-	-	-	-	1
AL-25-0.5	0.0-0.5	3/16/2017	3.61	<0.02	-	-	8.21	1
AL-25-1.0	0.5-1.0	3/16/2017	3.35	<0.02	-	-	8.37	1
AL-25-2.5	2.0-2.5	3/16/2017	4.76	<0.02	-	-	8.44	1
AL-25-5.0	4.5-5.0	3/16/2017	2.72	<0.02	-	-	7.52	1
AL-26-0.5	0.0-0.5	3/16/2017	251	7.53	<0.02	-	-	1
AL-26-1.0	0.5-1.0	3/16/2017	12.5	-	-	-	-	1
AL-26-2.5	2.0-2.5	3/16/2017	7.53	-	-	-	-	1
AL-26-5.0	4.5-5.0	3/16/2017	18.3	-	-	-	-	1
AL-27-0.5	0.0-0.5	3/16/2017	5.99	-	-	-	-	1
AL-27-1.0	0.5-1.0	3/16/2017	3.28	-	-	-	-	1
AL-27-2.5	2.0-2.5	3/16/2017	6.34	-	-	-	-	1
AL-27-5.0	4.5-5.0	3/16/2017	2.05	-	-	-	-	1
AL-28-0.5	0.0-0.5	3/16/2017	11.2	-	-	-	-	1
AL-28-1.0	0.5-1.0	3/16/2017	12.4	-	-	-	-	1
AL-28-2.5	2.0-2.5	3/16/2017	2.77	-	-	-	-	1
AL-28-5.0	4.5-5.0	3/16/2017	2.32	-	-	-	-	1
AL-29-0.5	0.0-0.5	3/16/2017	7.05	-	-	-	-	1
AL-29-1.0	0.5-1.0	3/16/2017	14.1	-	-	-	-	1
AL-29-2.5	2.0-2.5	3/16/2017	8.66	-	-	-	-	1
AL-29-5.0	4.5-5.0	3/16/2017	7.76	-	-	-	-	1
AL-30-0.5	0.0-0.5	3/14/2017	18.0	1.83	-	-	-	1
AL-30-1.0	0.5-1.0	3/14/2017	2.64	0.099	-	-	-	1
AL-30-2.5	2.0-2.5	3/14/2017	4.38	0.057	-	-	-	1

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Sample ID	Depth (feet)	Date	TTLIC Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-30-5.0	4.5-5.0	3/14/2017	3.52	0.054	-	-	-	1
AL-31-0.5	0.0-0.5	3/15/2017	4.07	-	-	-	-	1
AL-31-1.0	0.5-1.0	3/15/2017	3.50	-	-	-	-	1
AL-31-2.5	2.0-2.5	3/15/2017	3.11	-	-	-	-	1
AL-31-5.0	4.5-5.0	3/15/2017	3.06	-	-	-	-	1
AL-32-0.5	0.0-0.5	3/15/2017	0.369J	-	-	-	-	1
AL-32-1.0	0.5-1.0	3/15/2017	3.02	-	-	-	-	1
AL-32-2.5	2.0-2.5	3/15/2017	3.29	-	-	-	-	1
AL-32-5.0	4.5-5.0	3/15/2017	4.69	-	-	-	-	1
AL-33-0.5	0.0-0.5	3/16/2017	3.73	-	-	-	-	1
AL-33-1.0	0.5-1.0	3/16/2017	2.48	-	-	-	-	1
AL-33-2.5	2.0-2.5	3/16/2017	4.31	-	-	-	-	1
AL-33-5.0	4.5-5.0	3/16/2017	2.75	-	-	-	-	1
AL-34-0.5	0.0-0.5	3/16/2017	3.01	-	-	-	-	1
AL-34-1.0	0.5-1.0	3/16/2017	3.90	-	-	-	-	1
AL-34-2.5	2.0-2.5	3/16/2017	3.20	-	-	-	-	1
AL-34-5.0	4.5-5.0	3/16/2017	4.14	-	-	-	-	1
AL-35-0.5	0.0-0.5	3/14/2017	2.81	-	-	-	-	1
AL-35-1.0	0.5-1.0	3/14/2017	3.89	-	-	-	-	1
AL-35-2.5	2.0-2.5	3/14/2017	3.61	-	-	-	-	1
AL-35-5.0	4.5-5.0	3/14/2017	3.74	-	-	-	-	1
AL-36-0.5	0.0-0.5	3/14/2017	9.46	-	-	-	-	1
AL-36-1.0	0.5-1.0	3/14/2017	8.03	-	-	-	-	1
AL-36-2.5	2.0-2.5	3/14/2017	5.14	-	-	-	-	1
AL-36-5.0	4.5-5.0	3/14/2017	3.93	-	-	-	-	1
AL-37-0.5	0.0-0.5	4/4/2017	138	4.89	-	-	-	1
AL-37-1.0	0.5-1.0	4/4/2017	27.0	-	-	-	-	1
AL-37-2.5	2.0-2.5	4/4/2017	4.64	-	-	-	-	1
AL-37-5.0	4.5-5.0	4/4/2017	6.87	-	-	-	-	1
AL-38-0.5	0.0-0.5	4/4/2017	6.85	-	-	-	-	1
AL-38-1.0	0.5-1.0	4/4/2017	4.25	-	-	-	-	1
AL-38-2.5	2.0-2.5	4/4/2017	4.60	-	-	-	-	1
AL-38-5.0	4.5-5.0	4/4/2017	4.45	-	-	-	-	1
AL-39-0.5	0.0-0.5	3/15/2017	7.38	-	-	-	-	1
AL-39-1.0	0.5-1.0	3/15/2017	7.54	-	-	-	-	1
AL-39-2.5	2.0-2.5	3/15/2017	16.5	-	-	-	-	1
AL-39-5.0	4.5-5.0	3/15/2017	7.12	-	-	-	-	1
AL-40-0.5	0.0-0.5	3/16/2017	6.84	-	-	-	-	1
AL-40-1.0	0.5-1.0	3/16/2017	1.79	-	-	-	-	1

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-40-2.5	2.0-2.5	3/16/2017	5.36	-	-	-	-	1
AL-40-5.0	4.5-5.0	3/16/2017	6.29	-	-	-	-	1
AL-41-0.5	0.0-0.5	3/15/2017	8.93	-	-	-	-	1
AL-41-1.0	0.5-1.0	3/15/2017	6.61	-	-	-	-	1
AL-41-2.5	2.0-2.5	3/15/2017	6.93	-	-	-	-	1
AL-41-5.0	4.5-5.0	3/15/2017	8.05	-	-	-	-	1
AL-42-0.5	0.0-0.5	3/15/2017	25.8	0.407	-	-	8.33	1
AL-42-1.0	0.5-1.0	3/15/2017	6.61	0.046J	-	-	8.40	1
AL-42-2.5	2.0-2.5	3/15/2017	5.79	<0.02	-	-	8.23	1
AL-42-5.0	4.5-5.0	3/15/2017	5.60	<0.02	-	-	8.37	1
AL-43-0.5	0.0-0.5	3/15/2017	2.47	-	-	-	-	1
AL-43-1.0	0.5-1.0	3/15/2017	5.59	-	-	-	-	1
AL-43-2.5	2.0-2.5	3/15/2017	4.64	-	-	-	-	1
AL-43-5.0	4.5-5.0	3/15/2017	5.18	-	-	-	-	1
AL-44-0.5	0.0-0.5	3/16/2017	6.72	-	-	-	-	1
AL-44-1.0	0.5-1.0	3/16/2017	4.75	-	-	-	-	1
AL-44-2.5	2.0-2.5	3/16/2017	5.18	-	-	-	-	1
AL-44-5.0	4.5-5.0	3/16/2017	6.89	-	-	-	-	1
AL-45-0.5	0.0-0.5	3/15/2017	6.26	-	-	-	-	1
AL-45-1.0	0.5-1.0	3/15/2017	4.52	-	-	-	-	1
AL-45-2.5	2.0-2.5	3/15/2017	6.01	-	-	-	-	1
AL-45-5.0	4.5-5.0	3/15/2017	5.45	-	-	-	-	1
AL-46-0.5	0.0-0.5	3/15/2017	11.6	-	-	-	-	1
AL-46-1.0	0.5-1.0	3/15/2017	5.32	-	-	-	-	1
AL-46-2.5	2.0-2.5	3/15/2017	6.06	-	-	-	-	1
AL-46-5.0	4.5-5.0	3/15/2017	5.55	-	-	-	-	1
AL-47-0.5	0.0-0.5	3/15/2017	6.19	-	-	-	-	1
AL-47-1.0	0.5-1.0	3/15/2017	6.10	-	-	-	-	1
AL-47-2.5	2.0-2.5	3/15/2017	4.34	-	-	-	-	1
AL-47-5.0	4.5-5.0	3/15/2017	8.14	-	-	-	-	1
AL-48-0.5	0.0-0.5	3/15/2017	6.66	-	-	-	-	1
AL-48-1.0	0.5-1.0	3/15/2017	6.66	-	-	-	-	1
AL-48-2.5	2.0-2.5	3/15/2017	5.05	-	-	-	-	1
AL-48-5.0	4.5-5.0	3/15/2017	8.12	-	-	-	-	1
AL-49-0.5	0.0-0.5	3/15/2017	5.39	-	-	-	-	1
AL-49-1.0	0.5-1.0	3/15/2017	5.36	-	-	-	-	1
AL-49-2.5	2.0-2.5	3/15/2017	5.49	-	-	-	-	1
AL-49-5.0	4.5-5.0	3/15/2017	5.24	-	-	-	-	1
AL-50-0.5	0.0-0.5	3/16/2017	15.7	-	-	-	-	1
AL-50-1.0	0.5-1.0	3/16/2017	4.52	-	-	-	-	1



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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-50-2.5	2.0-2.5	3/16/2017	4.73	-	-	-	-	1
AL-50-5.0	4.5-5.0	3/16/2017	-	-	-	-	-	1
AL-51-0.5	0.0-0.5	3/15/2017	19.3	-	-	-	-	1
AL-51-1.0	0.5-1.0	3/15/2017	10.5	-	-	-	-	1
AL-51-2.5	2.0-2.5	3/15/2017	8.26	-	-	-	-	1
AL-51-5.0	4.5-5.0	3/15/2017	4.94	-	-	-	-	1
AL-52-0.5	0.0-0.5	4/4/2017	6.50	0.139	-	-	8.15	1
AL-52-1.0	0.5-1.0	4/4/2017	4.92	<0.02	-	-	8.47	1
AL-52a-0.5	0.0-0.5	4/4/2017	5.56	0.084	-	-	8.22	1
AL-52a-1.0	0.5-1.0	4/4/2017	2.80	<0.02	-	-	8.48	1
AL-53-0.5	0.0-0.5	3/15/2017	5.70	-	-	-	-	1
AL-53-1.0	0.5-1.0	3/15/2017	6.16	-	-	-	-	1
AL-53-2.5	2.0-2.5	3/15/2017	2.69	-	-	-	-	1
AL-53-5.0	4.5-5.0	3/15/2017	3.03	-	-	-	-	1
AL-54-0.5	0.0-0.5	3/15/2017	13.5	-	-	-	-	1
AL-54-1.0	0.5-1.0	3/15/2017	1.96	-	-	-	-	1
AL-54-2.5	2.0-2.5	3/15/2017	1.94	-	-	-	-	1
AL-54-5.0	4.5-5.0	3/15/2017	2.29	-	-	-	-	1
AL-55-0.5	0.0-0.5	3/15/2017	2.15	-	-	-	-	1
AL-55-1.0	0.5-1.0	3/15/2017	2.47	-	-	-	-	1
AL-55-2.5	2.0-2.5	3/15/2017	2.09	-	-	-	-	1
AL-55-5.0	4.5-5.0	3/15/2017	2.08	-	-	-	-	1
AL-56-0.5	0.0-0.5	3/27/2017	22.8	-	-	-	-	1
AL-56-1.0	0.5-1.0	3/27/2017	3.88	-	-	-	-	1
AL-56-2.5	2.0-2.5	3/27/2017	4.03	-	-	-	-	1
AL-56-5.0	4.5-5.0	3/27/2017	1.45	-	-	-	-	1
AL-57-0.5	0.0-0.5	3/27/2017	6.23	-	-	-	-	1
AL-57-1.0	0.5-1.0	3/27/2017	12.6	-	-	-	-	1
AL-57-2.5	2.0-2.5	3/27/2017	3.05	-	-	-	-	1
AL-57-5.0	4.5-5.0	3/27/2017	1.24	-	-	-	-	1
AL-58-0.5	0.0-0.5	4/4/2017	9.24	-	-	-	-	1
AL-58-1.0	0.5-1.0	4/4/2017	83.2	0.303	-	-	-	1
AL-58a-0.5	0.0-0.5	4/4/2017	81.2	8.02	0.045J	-	-	1
AL-58a-1.0	0.5-1.0	4/4/2017	9.42	-	-	-	-	1
AL-59-0.5	0.0-0.5	4/4/2017	4.45	-	-	-	-	1
AL-59-1.0	0.5-1.0	4/4/2017	4.31	-	-	-	-	1
AL-59a-0.5	0.0-0.5	4/4/2017	3.68	-	-	-	-	1
AL-59a-1.0	0.5-1.0	4/4/2017	2.63	-	-	-	-	1
AL-60-0.5	0.0-0.5	4/5/2017	7.09	-	-	-	-	1
AL-60-1.0	0.5-1.0	4/5/2017	5.58	-	-	-	-	1

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-60-2.5	2.0-2.5	4/5/2017	3.34	-	-	-	-	1
AL-60a-0.5	0.0-0.5	4/5/2017	4.17	-	-	-	-	1
AL-61-0.5	0.0-0.5	3/21/2017	5.98	-	-	-	-	1
AL-61-1.0	0.5-1.0	3/21/2017	5.75	-	-	-	-	1
AL-61-2.5	2.0-2.5	3/21/2017	6.64	-	-	-	-	1
AL-61-5.0	4.5-5.0	3/21/2017	-	-	-	-	-	1
AL-62-0.5	0.0-0.5	4/3/2017	7.47	-	-	-	-	1
AL-62-1.0	0.5-1.0	4/3/2017	2.91	-	-	-	-	1
AL-62-2.0	1.5-2.0	4/3/2017	3.43	-	-	-	-	1
AL-62a-0.5	0.0-0.5	4/3/2017	15.1	-	-	-	-	1
AL-63-0.5	0.0-0.5	3/21/2017	19.8	-	-	-	-	1
AL-63-1.0	0.5-1.0	3/21/2017	12.1	-	-	-	-	1
AL-63-2.5	2.0-2.5	3/21/2017	17.8	-	-	-	-	1
AL-63-5.0	4.5-5.0	3/21/2017	-	-	-	-	-	1
AL-64-0.5	0.0-0.5	4/3/2017	5.77	-	-	-	-	1
AL-64-1.0	0.5-1.0	4/3/2017	6.39	-	-	-	-	1
AL-64-2.0	1.5-2.0	4/3/2017	5.87	-	-	-	-	1
AL-64a-0.5	0.0-0.5	4/3/2017	5.77	-	-	-	-	1
AL-65-0.5	0.0-0.5	3/21/2017	8.03	0.668	-	-	-	1
AL-65-1.0	0.5-1.0	3/21/2017	6.66	0.386	-	-	-	1
AL-65-2.5	2.0-2.5	3/21/2017	95.1	5.54	<0.02	-	-	1
AL-65-3.0	4.5-5.0	3/21/2017	36.7	2.39	-	-	-	1
AL-66-0.5	0.0-0.5	4/3/2017	5.17	-	-	-	-	1
AL-66-1.0	0.5-1.0	4/3/2017	4.29	-	-	-	-	1
AL-66-2.0	1.5-2.0	4/3/2017	3.89	-	-	-	-	1
AL-66a-0.5	0.0-0.5	4/3/2017	6.32	-	-	-	-	1
AL-67-0.5	0.0-0.5	4/4/2017	7.21	-	-	-	-	1
AL-67-1.0	0.5-1.0	4/4/2017	6.29	-	-	-	-	1
AL-67-2.5	2.0-2.5	4/4/2017	6.42	-	-	-	-	1
AL-67a-0.5	0.0-0.5	4/4/2017	7.74	-	-	-	-	1
AL-68-0.5	0.0-0.5	4/3/2017	6.88	-	-	-	-	1
AL-68-1.0	0.5-1.0	4/3/2017	4.25	-	-	-	-	1
AL-68-2.5	2.0-2.5	4/3/2017	2.75	-	-	-	-	1
AL-68a-0.5	0.0-0.5	4/3/2017	5.94	-	-	-	-	1
AL-69-0.5	0.0-0.5	3/21/2017	5.07	-	-	-	-	1
AL-69-1.0	0.5-1.0	3/21/2017	211	12.0	<0.02	-	-	1
AL-69-2.5	2.0-2.5	3/21/2017	60.3	8.22	<0.02	-	-	1
AL-69-3.0	2.5-3.0	3/21/2017	28.4	-	-	-	-	1
AL-70-0.5	0.0-0.5	3/21/2017	6.50	-	-	-	-	1
AL-70-1.0	0.5-1.0	3/21/2017	6.49	-	-	-	-	1

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-70-2.5	2.0-2.5	3/21/2017	5.49	-	-	-	-	1
AL-70-5.0	4.5-5.0	3/21/2017	5.08	-	-	-	-	1
AL-71-0.5	0.0-0.5	4/3/2017	4.70	-	-	-	-	1
AL-71-1.0	0.5-1.0	4/3/2017	5.69	-	-	-	-	1
AL-71-2.0	1.5-2.0	4/3/2017	2.65	-	-	-	-	1
AL-71a-0.5	0.0-0.5	4/3/2017	3.35	-	-	-	-	1
AL-72-0.5	0.0-0.5	3/21/2017	5.24	-	-	-	-	1
AL-72-1.0	0.5-1.0	3/21/2017	4.18	-	-	-	-	1
AL-72-2.5	2.0-2.5	3/21/2017	4.68	-	-	-	-	1
AL-72-5.0	4.5-5.0	3/21/2017	4.87	-	-	-	-	1
AL-73-0.5	0.0-0.5	4/3/2017	3.69	-	-	-	-	1
AL-73-1.0	0.5-1.0	4/3/2017	2.51	-	-	-	-	1
AL-73-2.5	2.0-2.5	4/3/2017	5.26	-	-	-	-	1
AL-73a-0.5	0.0-0.5	4/3/2017	5.24	-	-	-	-	1
AL-74-0.5	0.0-0.5	3/21/2017	1.80	-	-	-	-	1
AL-74-1.0	0.5-1.0	3/21/2017	0.731	-	-	-	-	1
AL-74-2.5	2.0-2.5	3/21/2017	1.27	-	-	-	-	1
AL-74-3.0	2.5-3.0	3/21/2017	1.99	-	-	-	-	1
AL-75-0.5	0.0-0.5	4/3/2017	2.59	-	-	-	-	1
AL-75-1.0	0.5-1.0	4/3/2017	2.29	-	-	-	-	1
AL-75-2.5	2.0-2.5	4/3/2017	4.55	-	-	-	-	1
AL-75-5.0	4.5-5.0	4/3/2017	3.39	-	-	-	-	1
AL-76-0.5	0.0-0.5	4/3/2017	4.99	-	-	-	-	1
AL-76-1.0	0.5-1.0	4/3/2017	9.24	-	-	-	-	1
AL-76-2.0	1.5-2.0	4/3/2017	4.07	-	-	-	-	1
AL-76a-0.5	0.0-0.5	4/3/2017	5.69	-	-	-	-	1
AL-77-0.5	0.0-0.5	3/21/2017	3.71	-	-	-	-	1
AL-77-1.0	0.5-1.0	3/21/2017	1.85	-	-	-	-	1
AL-77-2.5	2.0-2.5	3/21/2017	3.07	-	-	-	-	1
AL-77-5.0	4.5-5.0	3/21/2017	-	-	-	-	-	1
AL-78-0.5	0.0-0.5	3/21/2017	4.62	0.157	-	-	-	1
AL-78-1.0	0.5-1.0	3/21/2017	4.72	0.073	-	-	-	1
AL-78-2.0	2.0-2.5	3/21/2017	4.05	0.063	-	-	-	1
AL-78-5.0	4.5-5.0	3/21/2017	-	-	-	-	-	1
AL-79-0.5	0.0-0.5	3/27/2017	3.57	-	-	-	-	1
AL-79-1.0	0.5-1.0	3/27/2017	3.13	-	-	-	-	1
AL-79-2.5	2.0-2.5	3/27/2017	1.79	-	-	-	-	1
AL-79-5.0	4.5-5.0	3/27/2017	1.38	-	-	-	-	1
AL-80-0.5	0.0-0.5	3/27/2017	11.8	-	-	-	-	1
AL-80-1.0	0.5-1.0	3/27/2017	32.1	-	-	-	-	1

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-80-2.5	2.0-2.5	3/27/2017	2.00	-	-	-	-	1
AL-80-5.0	4.5-5.0	3/27/2017	2.08	-	-	-	-	1
AL-81-0.5	0.0-0.5	3/21/2017	3.24	<0.02	-	-	7.53	1
AL-81-1.0	0.5-1.0	3/21/2017	1.98	<0.02	-	-	7.97	1
AL-81-2.5	2.0-2.5	3/21/2017	1.07	<0.02	-	-	8.02	1
AL-81-3.0	2.5-3.0	3/21/2017	2.54	<0.02	-	-	7.89	1
AL-82-0.5	0.0-0.5	3/21/2017	1.54	-	-	-	-	1
AL-82-1.0	0.5-1.0	3/21/2017	2.08	-	-	-	-	1
AL-82-2.5	2.0-2.5	3/21/2017	2.52	-	-	-	-	1
AL-82-5.0	4.5-5.0	3/21/2017	1.92	-	-	-	-	1
AL-83-0.5	0.0-0.5	3/21/2017	2.96	-	-	-	-	1
AL-83-1.0	0.5-1.0	3/21/2017	2.67	-	-	-	-	1
AL-83-2.0	2.0-2.5	3/21/2017	2.15	-	-	-	-	1
AL-83a-0.5	0.0-0.5	4/4/2017	4.39	-	-	-	-	1
AL-83a-1.0	0.5-1.0	4/4/2017	2.72	-	-	-	-	1
AL-84-0.5	0.0-0.5	3/21/2017	2.21	-	-	-	-	1
AL-84-1.0	0.5-1.0	3/21/2017	2.34	-	-	-	-	1
AL-84-2.5	2.0-2.5	3/21/2017	1.28	-	-	-	-	1
AL-84-5.0	4.5-5.0	3/21/2017	0.764	-	-	-	-	1
AL-85-0.5	0.0-0.5	3/27/2017	4.07	-	-	-	-	1
AL-85-1.0	0.5-1.0	3/27/2017	1.52	-	-	-	-	1
AL-85-2.5	2.0-2.5	3/27/2017	1.52	-	-	-	-	1
AL-85-5.0	4.5-5.0	3/27/2017	2.13	-	-	-	-	1
AL-86-0.5	0.0-0.5	4/3/2017	2.18	-	-	-	-	1
AL-86-1.0	0.5-1.0	4/3/2017	1.56	-	-	-	-	1
AL-86-1.5	1.0-1.5	4/3/2017	1.87	-	-	-	-	1
AL-86a-0.5	0.0-0.5	4/3/2017	2.71	-	-	-	-	1
AL-86a-1.0	0.5-1.0	4/3/2017	2.02	-	-	-	-	1
AL-87-0.5	0.0-0.5	3/27/2017	2.30	-	-	-	-	1
AL-87-1.0	0.5-1.0	3/27/2017	2.07	-	-	-	-	1
AL-87-2.5	2.0-2.5	3/27/2017	2.75	-	-	-	-	1
AL-87-5.0	4.5-5.0	3/27/2017	3.40	-	-	-	-	1
AL-88-0.5	0.0-0.5	3/27/2017	1.71	-	-	-	-	1
AL-88-1.0	0.5-1.0	3/27/2017	4.51	-	-	-	-	1
AL-88-2.5	2.0-2.5	3/27/2017	1.77	-	-	-	-	1
AL-88-5.0	4.5-5.0	3/27/2017	1.72	-	-	-	-	1
AL-89-0.5	0.0-0.5	3/28/2017	3.49	-	-	-	-	1
AL-89-1.0	0.5-1.0	3/28/2017	1.43	-	-	-	-	1
AL-89-2.0	2.0-2.5	3/28/2017	4.33	-	-	-	-	1
AL-89-5.0	4.5-5.0	3/28/2017	-	-	-	-	-	1

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-90-0.5	0.0-0.5	3/27/2017	2.88	-	-	-	-	1
AL-90-1.0	0.5-1.0	3/27/2017	2.29	-	-	-	-	1
AL-90-2.5	2.0-2.5	3/27/2017	0.960	-	-	-	-	1
AL-90-5.0	4.5-5.0	3/27/2017	2.17	-	-	-	-	1
AL-91-0.5	0.0-0.5	3/27/2017	0.779	-	-	-	-	1
AL-91-1.0	0.5-1.0	3/27/2017	0.994	-	-	-	-	1
AL-91-2.5	2.0-2.5	3/27/2017	0.914	-	-	-	-	1
AL-91-5.0	4.5-5.0	3/27/2017	1.12	-	-	-	-	1
AL-92-0.5	0.0-0.5	4/3/2017	2.55	-	-	-	-	1
AL-92-1.0	0.5-1.0	4/3/2017	2.52	-	-	-	-	1
AL-92a-0.5	0.0-0.5	4/3/2017	2.62	-	-	-	-	1
AL-92a-1.0	0.5-1.0	4/3/2017	3.29	-	-	-	-	1
AL-93-0.5	0.0-0.5	3/28/2017	14.2	0.789	-	-	8.36	1
AL-93-1.0	0.5-1.0	3/28/2017	3.14	0.070	-	-	8.42	1
AL-93-2.5	2.0-2.5	3/28/2017	4.83	0.205	-	-	8.20	1
AL-93-5.0	4.5-5.0	3/28/2017	-	-	-	-	-	1
AL-94-0.5	0.0-0.5	3/23/2017	5.69	-	-	-	-	1
AL-94-1.0	0.5-1.0	3/23/2017	9.01	-	-	-	-	1
AL-94-2.5	2.0-2.5	3/23/2017	10.8	-	-	-	-	1
AL-94-4.0	3.5-4.0	3/23/2017	17.2	-	-	-	-	1
AL-95-0.5	0.0-0.5	4/3/2017	3.25	-	-	-	-	1
AL-95-1.0	0.5-1.0	4/3/2017	3.60	-	-	-	-	1
AL-95-2.0	1.5-2.0	4/3/2017	3.90	-	-	-	-	1
AL-95a-0.5	0.0-0.5	4/3/2017	13.1	-	-	-	-	1
AL-96-0.5	0.0-0.5	3/23/2017	8.22	-	-	-	-	1
AL-96-1.0	0.5-1.0	3/23/2017	50.3	1.96	-	-	-	1
AL-96-2.5	2.0-2.5	3/23/2017	3.75	-	-	-	-	1
AL-96-5.0	4.5-5.0	3/23/2017	2.17	-	-	-	-	1
AL-97-0.5	0.0-0.5	3/30/2017	12.4	-	-	-	-	1
AL-97-1.0	0.5-1.0	3/30/2017	5.28	-	-	-	-	1
AL-97a-0.5	0.0-0.5	3/30/2017	11.5	-	-	-	-	1
AL-97a-1.0	0.5-1.0	3/30/2017	5.09	-	-	-	-	1
AL-98-0.5	0.0-0.5	3/23/2017	16.5	-	-	-	-	1
AL-98-1.0	0.5-1.0	3/23/2017	51.3	<0.02	-	-	-	1
AL-98-2.5	2.0-2.5	3/23/2017	1.79	-	-	-	-	1
AL-98-5.0	4.5-5.0	3/23/2017	1.35	-	-	-	-	1
AL-99-0.5	0.0-0.5	3/30/2017	13.9	-	-	-	-	1
AL-99-1.0	0.5-1.0	3/30/2017	10.8	-	-	-	-	1
AL-99-2.5	2.0-2.5	3/30/2017	6.29	-	-	-	-	1
AL-99-3.0	2.5-3.0	3/30/2017	3.40	-	-	-	-	1

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-100-0.5	0.0-0.5	3/27/2017	<b>7.64</b>	-	-	-	-	1
AL-100-1.0	0.5-1.0	3/27/2017	<b>5.23</b>	-	-	-	-	1
AL-100-2.5	2.0-2.5	3/27/2017	<b>1.88</b>	-	-	-	-	1
AL-100-5.0	4.5-5.0	3/27/2017	<b>1.99</b>	-	-	-	-	1
AL-101-0.5	0.0-0.5	3/28/2017	<b>7.21</b>	-	-	-	-	1
AL-101-1.0	0.5-1.0	3/28/2017	<b>8.81</b>	-	-	-	-	1
AL-101-2.5	2.0-2.5	3/28/2017	-	-	-	-	-	1
AL-101-5.0	4.5-5.0	3/28/2017	-	-	-	-	-	1
AL-102-0.5	0.0-0.5	3/30/2017	<b>9.23</b>	-	-	-	-	1
AL-102-1.0	0.5-1.0	3/30/2017	<b>3.04</b>	-	-	-	-	1
AL-102a-0.5	0.0-0.5	3/30/2017	<b>2.23</b>	-	-	-	-	1
AL-102a-1.0	0.5-1.0	3/30/2017	<b>1.57</b>	-	-	-	-	1
AL-103-0.5	0.0-0.5	3/28/2017	<b>13.3</b>	-	-	-	-	1
AL-103-1.0	0.5-1.0	3/28/2017	<b>10.1</b>	-	-	-	-	1
AL-103-2.5	2.0-2.5	3/28/2017	<b>7.38</b>	-	-	-	-	1
AL-103-5.0	4.5-5.0	3/28/2017	-	-	-	-	-	1
AL-104-0.5	0.0-0.5	3/30/2017	<b>6.06</b>	-	-	-	-	1
AL-104-1.0	0.5-1.0	3/30/2017	<b>4.97</b>	-	-	-	-	1
AL-104a-0.5	0.0-0.5	3/30/2017	<b>12.1</b>	-	-	-	-	1
AL-104a-1.0	0.5-1.0	3/30/2017	<b>13.1</b>	-	-	-	-	1
AL-105-0.5	0.0-0.5	3/28/2017	<b>3.92</b>	-	-	-	-	1
AL-105-1.0	0.5-1.0	3/28/2017	<b>12.9</b>	-	-	-	-	1
AL-105-2.5	2.0-2.5	3/28/2017	<b>2.82</b>	-	-	-	-	1
AL-105-5.0	4.5-5.0	3/28/2017	<b>7.32</b>	-	-	-	-	1
AL-106-0.5	0.0-0.5	3/30/2017	<b>19.4</b>	-	-	-	-	1
AL-106-1.0	0.5-1.0	3/30/2017	<b>16.8</b>	-	-	-	-	1
AL-106a-0.5	0.0-0.5	3/30/2017	<b>9.49</b>	-	-	-	-	1
AL-106a-1.0	0.5-1.0	3/30/2017	<b>16.5</b>	-	-	-	-	1
AL-107-0.5	0.0-0.5	3/28/2017	<b>10.8</b>	-	-	-	-	1
AL-107-1.0	0.5-1.0	3/28/2017	<b>6.76</b>	-	-	-	-	1
AL-107-2.5	2.0-2.5	3/28/2017	-	-	-	-	-	1
AL-107-5.0	4.5-5.0	3/28/2017	-	-	-	-	-	1
AL-108-0.5	0.0-0.5	3/30/2017	<b>5.17</b>	-	-	-	-	1
AL-108-1.0	0.5-1.0	3/30/2017	<b>7.06</b>	-	-	-	-	1
AL-108-2.5	2.0-2.5	3/30/2017	<b>5.27</b>	-	-	-	-	1
AL-108-5.0	4.5-5.0	3/30/2017	<b>4.73</b>	-	-	-	-	1
AL-109-0.5	0.0-0.5	3/28/2017	<b>8.75</b>	-	-	-	<b>8.53</b>	1
AL-109-1.0	0.5-1.0	3/28/2017	<b>7.40</b>	-	-	-	<b>8.28</b>	1
AL-109-2.5	2.0-2.5	3/28/2017	<b>5.48</b>	-	-	-	<b>8.25</b>	1
AL-109a-0.5	0.0-0.5	3/28/2017	<b>11.9</b>	-	-	-	<b>8.56</b>	1

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 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-110-0.5	0.0-0.5	3/30/2017	<b>6.63</b>	-	-	-	-	1
AL-110-1.0	0.5-1.0	3/30/2017	<b>6.73</b>	-	-	-	-	1
AL-110-2.5	2.0-2.5	3/30/2017	<b>7.18</b>	-	-	-	-	1
AL-110-5.0	4.5-5.0	3/30/2017	<b>7.16</b>	-	-	-	-	1
AL-111-0.5	0.0-0.5	3/27/2027	<b>4.27</b>	-	-	-	-	1
AL-111-1.0	0.5-1.0	3/27/2027	<b>3.05</b>	-	-	-	-	1
AL-111-2.5	2.0-2.5	3/27/2027	<b>1.47</b>	-	-	-	-	1
AL-111-5.0	4.5-5.0	3/27/2027	<0.192	-	-	-	-	1
AL-112-0.5	0.0-0.5	3/22/2017	<b>11.4</b>	-	-	-	<b>7.90</b>	1
AL-112-1.0	0.5-1.0	3/22/2017	<b>21.4</b>	-	-	-	<b>8.23</b>	1
AL-112-2.5	2.0-2.5	3/22/2017	<b>0.595</b>	-	-	-	<b>7.65</b>	1
AL-112-5.0	4.5-5.0	3/22/2017	<0.192	-	-	-	<b>7.74</b>	1
AL-113-0.5	0.0-0.5	3/28/2017	<b>4.48</b>	-	-	-	-	1
AL-113-1.0	0.5-1.0	3/28/2017	<b>6.58</b>	-	-	-	-	1
AL-113-2.5	2.0-2.5	3/28/2017	<b>8.52</b>	-	-	-	-	1
AL-113-3.0	2.5-3.0	3/28/2017	<b>10.3</b>	-	-	-	-	1
AL-114-0.5	0.0-0.5	4/3/2017	<b>2.24</b>	-	-	-	-	1
AL-114-1.0	0.5-1.0	4/3/2017	<b>2.39</b>	-	-	-	-	1
AL-114-2.5	2.0-2.5	4/3/2017	<b>3.66</b>	-	-	-	-	1
AL-114a-0.5	0.0-0.5	4/3/2017	<b>4.26</b>	-	-	-	-	1
AL-115-0.5	0.0-0.5	3/27/2017	<b>18.7</b>	-	-	-	-	1
AL-115-1.0	0.5-1.0	3/27/2017	<b>0.631</b>	-	-	-	-	1
AL-115-2.5	2.0-2.5	3/27/2017	<b>0.770</b>	-	-	-	-	1
AL-115-5.0	4.5-5.0	3/27/2017	<b>0.727</b>	-	-	-	-	1
AL-116-0.5	0.0-0.5	3/22/2017	<b>6.20</b>	-	-	-	-	1
AL-116-1.0	0.5-1.0	3/22/2017	<b>16.5</b>	-	-	-	-	1
AL-116-2.5	2.0-2.5	3/22/2017	<0.192	-	-	-	-	1
AL-116-5.0	4.5-5.0	3/22/2017	<0.192	-	-	-	-	1
AL-117-0.5	0.0-0.5	3/28/2017	<b>1.61</b>	-	-	-	-	1
AL-117-1.0	0.5-1.0	3/28/2017	<b>1.82</b>	-	-	-	-	1
AL-117-2.5	2.0-2.5	3/28/2017	<b>1.79</b>	-	-	-	-	1
AL-117a-0.5	0.0-0.5	3/28/2017	<b>1.79</b>	-	-	-	-	1
AL-118-0.5	0.0-0.5	3/27/2017	<b>3.63</b>	-	-	-	-	1
AL-118-1.0	0.5-1.0	3/27/2017	<b>2.56</b>	-	-	-	-	1
AL-118-2.5	2.0-2.5	3/27/2017	<b>0.445J</b>	-	-	-	-	1
AL-118-5.0	4.5-5.0	3/27/2017	<b>0.403J</b>	-	-	-	-	1
AL-119-0.5	0.0-0.5	3/30/2017	<b>3.63</b>	-	-	-	-	1
AL-119-1.0	0.5-1.0	3/30/2017	<b>4.15</b>	-	-	-	-	1
AL-119-2.5	2.0-2.5	3/30/2017	<b>2.84</b>	-	-	-	-	1
AL-119a-0.5	0.0-0.5	3/30/2017	<b>4.38</b>	-	-	-	-	1

Table 2  
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Sample ID	Depth (feet)	Date	TTLIC Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-120-0.5	0.0-0.5	3/27/2017	3.76	-	-	-	-	1
AL-120-1.0	0.5-1.0	3/27/2017	1.74	-	-	-	-	1
AL-120-2.5	2.0-2.5	3/27/2017	<0.192	-	-	-	-	1
AL-120-5.0	4.5-5.0	3/27/2017	1.11	-	-	-	-	1
AL-121-0.5	0.0-0.5	3/22/2017	6.94	-	-	-	-	1
AL-121-1.0	0.5-1.0	3/22/2017	6.42	-	-	-	-	1
AL-121-2.5	2.0-2.5	3/22/2017	22.4	-	-	-	-	1
AL-121-5.0	4.5-5.0	3/22/2017	1.07	-	-	-	-	1
AL-122-0.5	0.0-0.5	3/22/2017	5.48	-	-	-	-	1
AL-122-1.0	0.5-1.0	3/22/2017	6.20	-	-	-	-	1
AL-122-2.5	2.0-2.5	3/22/2017	9.14	-	-	-	-	1
AL-122-5.0	4.5-5.0	3/22/2017	1.53	-	-	-	-	1
AL-123-0.5	0.0-0.5	3/22/2017	0.855	-	-	-	-	1
AL-123-1.0	0.5-1.0	3/22/2017	3.03	-	-	-	-	1
AL-123-2.5	2.0-2.5	3/22/2017	<0.192	-	-	-	-	1
AL-123-5.0	4.5-5.0	3/22/2017	<0.192	-	-	-	-	1
AL-124-0.5	0.0-0.5	3/22/2017	2.08	-	-	-	-	1
AL-124-1.0	0.5-1.0	3/22/2017	4.74	-	-	-	-	1
AL-124-2.5	2.0-2.5	3/22/2017	<0.192	-	-	-	-	1
AL-124-5.0	4.5-5.0	3/22/2017	<0.192	-	-	-	-	1
AL-125-0.5	0.0-0.5	3/29/2017	6.53	-	-	-	-	1
AL-125-1.0	0.5-1.0	3/29/2017	4.37	-	-	-	-	1
AL-125a-0.5	0.0-0.5	3/29/2017	6.46	-	-	-	-	1
AL-125a-1.0	0.5-1.0	3/29/2017	3.25	-	-	-	-	1
AL-126-0.5	0.0-0.5	3/22/2017	1.98	-	-	-	-	1
AL-126-1.0	0.5-1.0	3/22/2017	<0.192	-	-	-	-	1
AL-126-2.5	2.0-2.5	3/22/2017	<0.192	-	-	-	-	1
AL-126-5.0	4.5-5.0	3/22/2017	0.574	-	-	-	-	1
AL-127-0.5	0.0-0.5	3/29/2017	24.2	0.283	-	-	-	1
AL-127-1.0	0.5-1.0	3/29/2017	32.0	1.09	-	-	-	1
AL-127a-0.5	0.0-0.5	3/29/2017	38.1	1.20	-	-	-	1
AL-127a-1.0	0.5-1.0	3/29/2017	13.6	0.412	-	-	-	1
AL-128-0.5	0.0-0.5	3/22/2017	17.0	-	-	-	-	1
AL-128-1.0	0.5-1.0	3/22/2017	0.997	-	-	-	-	1
AL-128-2.5	2.0-2.5	3/22/2017	<0.192	-	-	-	-	1
AL-128-5.0	4.5-5.0	3/22/2017	<0.192	-	-	-	-	1
AL-129-0.5	0.0-0.5	3/29/2017	80.7	0.464	-	-	-	1
AL-129-1.0	0.5-1.0	3/29/2017	1.18	-	-	-	-	1
AL-129a-0.5	0.0-0.5	3/29/2017	34.8	-	-	-	-	1
AL-129a-1.0	0.5-1.0	3/29/2017	31.8	-	-	-	-	1



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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-130-0.5	0.0-0.5	4/5/2017	16.0	-	-	-	-	1
AL-130-1.0	0.5-1.0	4/5/2017	4.41	-	-	-	-	1
AL-130a-0.5	0.0-0.5	4/5/2017	7.05	-	-	-	-	1
AL-130a-1.0	0.5-1.0	4/5/2017	1.56	-	-	-	-	1
AL-131-0.5	0.0-0.5	3/30/2017	28.6	-	-	-	-	1
AL-131-1.0	0.5-1.0	3/30/2017	13.3	-	-	-	-	1
AL-131-2.5	2.0-2.5	3/30/2017	27.3	-	-	-	-	1
AL-131-4.0	3.5-4.0	3/30/2017	19.3	-	-	-	-	1
AL-132-0.5	0.0-0.5	3/29/2017	9.31	-	-	-	-	1
AL-132-1.0	0.5-1.0	3/29/2017	8.68	-	-	-	-	1
AL-132-2.5	2.0-2.5	3/29/2017	16.3	-	-	-	-	1
AL-132-5.0	4.5-5.0	3/29/2017	16.3	-	-	-	-	1
AL-133-0.5	0.0-0.5	3/22/2017	2.74	-	-	-	-	1
AL-133-1.0	0.5-1.0	3/22/2017	1.39	-	-	-	-	1
AL-133-2.5	2.0-2.5	3/22/2017	2.27	-	-	-	-	1
AL-133-5.0	4.5-5.0	3/22/2017	<0.192	-	-	-	-	1
AL-134-0.5	0.0-0.5	3/22/2017	7.55	-	-	-	-	1
AL-134-1.0	0.5-1.0	3/22/2017	2.88	-	-	-	-	1
AL-134-2.5	2.0-2.5	3/22/2017	5.00	-	-	-	-	1
AL-134-5.0	4.5-5.0	3/22/2017	4.04	-	-	-	-	1
AL-135-0.5	0.0-0.5	3/22/2017	35.7	-	-	-	-	1
AL-135-1.0	0.5-1.0	3/22/2017	1.07	-	-	-	-	1
AL-135-2.5	2.0-2.5	3/22/2017	1.56	-	-	-	-	1
AL-135-5.0	4.5-5.0	3/22/2017	<0.192	-	-	-	-	1
AL-136-0.5	0.0-0.5	3/22/2017	1.77	<0.02	-	-	-	1
AL-136-1.0	0.5-1.0	3/22/2017	13.2	0.742	-	-	-	1
AL-136-2.5	2.0-2.5	3/22/2017	1.05	<0.02	-	-	-	1
AL-136-5.0	4.5-5.0	3/22/2017	0.962	<0.02	-	-	-	1
AL-137-0.5	0.0-0.5	3/22/2017	<0.192	-	-	-	-	1
AL-137-1.0	0.5-1.0	3/22/2017	0.440J	-	-	-	-	1
AL-137-2.5	2.0-2.5	3/22/2017	1.62	-	-	-	-	1
AL-137-5.0	4.5-5.0	3/22/2017	<0.192	-	-	-	-	1
AL-138-0.5	0.0-0.5	3/29/2017	6.21	-	-	-	-	1
AL-138-1.0	0.5-1.0	3/29/2017	92.7	3.66	-	-	-	1
AL-138a-0.5	0.0-0.5	3/29/2017	11.2	-	-	-	-	1
AL-138a-1.0	0.5-1.0	3/29/2017	115	3.24	-	-	-	1
AL-139-0.5	0.0-0.5	3/22/2017	2.75	-	-	-	-	1
AL-139-1.0	0.5-1.0	3/22/2017	1.57	-	-	-	-	1
AL-139-2.5	2.0-2.5	3/22/2017	<0.192	-	-	-	-	1
AL-139-5.0	4.5-5.0	3/22/2017	0.539	-	-	-	-	1

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-140-0.5	0.0-0.5	3/22/2017	4.87	-	-	-	-	1
AL-140-1.0	0.5-1.0	3/22/2017	4.34	-	-	-	-	1
AL-140-2.5	2.0-2.5	3/22/2017	0.701	-	-	-	-	1
AL-140-5.0	4.5-5.0	3/22/2017	0.633	-	-	-	-	1
AL-141-0.5	0.0-0.5	3/22/2017	3.26	-	-	-	-	1
AL-141-1.0	0.5-1.0	3/22/2017	0.440J	-	-	-	-	1
AL-141-2.5	2.0-2.5	3/22/2017	0.818	-	-	-	-	1
AL-141-5.0	4.5-5.0	3/22/2017	<0.192	-	-	-	-	1
<b>Field QA/QC Samples</b>								
AL-112d-0.5	0.0-0.5	3/14/2017	4.14	0.212	-	-	7.90	1
AL-112d-1.0	0.5-1.0	3/14/2017	4.52	0.123	-	-	8.23	1
AL-112d-2.5	2.0-2.5	3/14/2017	2.50	<0.02	-	-	7.65	1
AL-112d-5.0	4.5-5.0	3/14/2017	4.14	<0.02	-	-	7.74	1
AL-128d-0.5	0.0-0.5	3/16/2017	12.4	-	-	-	-	1
AL-128d-1.0	0.5-1.0	3/16/2017	8.89	-	-	-	-	1
AL-128d-2.5	2.0-2.5	3/16/2017	75.2	2.21	-	-	-	1
AL-128d-5.0	4.5-5.0	3/16/2017	2.17	-	-	-	-	1
AL-140d-0.5	0.0-0.5	3/16/2017	4.64	-	-	-	-	1
AL-140d-1.0	0.5-1.0	3/16/2017	5.96	-	-	-	-	1
AL-140d-2.5	2.0-2.5	3/16/2017	4.77	-	-	-	-	1
AL-140d-5.0	4.5-5.0	3/16/2017	7.31	-	-	-	-	1
AL-152-0.5	0.0-0.5	4/4/2017	5.91	0.177	-	-	8.27	1
AL-152-1.0	0.5-1.0	4/4/2017	3.39	<0.02	-	-	8.71	1
AL-152a-0.5	0.0-0.5	4/4/2017	4.58	0.086	-	-	8.33	1
AL-152a-1.0	0.5-1.0	4/4/2017	3.42	<0.02	-	-	8.46	1
AL-153-0.5	0.0-0.5	3/15/2017	4.16	-	-	-	-	1
AL-153-1.0	0.5-1.0	3/15/2017	5.91	-	-	-	-	1
AL-153-2.5	2.0-2.5	3/15/2017	6.32	-	-	-	-	1
AL-153-5.0	4.5-5.0	3/15/2017	2.90	-	-	-	-	1
AL-165-0.5	0.0-0.5	3/21/2017	4.55	0.262	-	-	-	1
AL-165-1.0	0.5-1.0	3/21/2017	5.48	0.557	-	-	-	1
AL-165-2.5	2.0-2.5	3/21/2017	74.8	7.33	0.146	-	-	1
AL-165-3.0	2.5-3.0	3/21/2017	10.8	-	-	-	-	1
AL-1120-0.5	0.0-0.5	3/27/2017	5.13	-	-	-	-	1
AL-1120-1.0	0.5-1.0	3/27/2017	3.12	-	-	-	-	1
AL-1120-2.5	2.0-2.5	3/27/2017	1.84	-	-	-	-	1
AL-1120-5.0	4.5-5.0	3/27/2017	1.52	-	-	-	-	1
AL-1127-0.5	0.0-0.5	3/29/2017	13.0	0.497	-	-	-	1
AL-1127-1.0	0.5-1.0	3/29/2017	10.7	0.583	-	-	-	1
AL-1127a-0.5	0.0-0.5	3/29/2017	12.0	0.469	-	-	-	1

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
AL-1127a-1.0	0.5-1.0	3/29/2017	19.5	0.723	-	-	-	1
<b>Equipment Blanks</b>								
100-1*	NA	3/14/2017	<0.004	-	-	-	-	1
100-2*	NA	3/15/2017	<0.004	-	-	-	-	1
100-5*	NA	3/21/2017	<0.004	-	-	-	-	1
100-6*	NA	3/22/2017	<0.004	-	-	-	-	1
200-2*	NA	3/23/2017	<0.004	-	-	-	-	1
200-7*	NA	3/24/2017	<0.004	-	-	-	-	1
200-8*	NA	3/25/2017	<0.004	-	-	-	-	1
<b>Leighton I-15 ADL Survey 2014</b>								
A001-0.5	0.5	2014	5.64	<0.05	-	-	-	-
A001-1.0	1.0	2014	2.28	-	-	-	-	-
A001-2.5	2.5	2014	1.62	-	<0.05	-	-	-
A001-5.0	5.0	2014	1.25	-	-	-	-	-
A002-0.5	0.5	2014	6.96	-	-	-	-	-
A002-1.0	1.0	2014	11.6	-	-	-	-	-
A002-2.5	2.5	2014	1.06	<0.05	-	-	-	-
A002-5.0	5.0	2014	2.92	-	-	-	-	-
A003-0.5	0.5	2014	9.78	-	-	-	-	-
A003-1.0	1.0	2014	2.97	-	-	-	-	-
A003-2.5	2.5	2014	5.10	-	-	-	-	-
A003-5.0	5.0	2014	1.07	-	-	-	-	-
A004-0.5	0.5	2014	4.51	-	-	-	7.67	-
A004-1.0	1.0	2014	2.67	-	-	-	-	-
A004-2.5	2.5	2014	2.16	-	-	-	-	-
A004-5.0	5.0	2014	2.69	-	-	-	-	-
A005-0.5	0.5	2014	6.88	-	0.6	-	-	-
A005-1.0	1.0	2014	2.48	-	-	-	-	-
A005-2.5	2.5	2014	1.78	-	<0.05	-	-	-
A005-5.0	5.0	2014	3.68	-	0.233	-	-	-
A006-0.5	0.5	2014	49.5	-	-	-	-	-
A006-1.0	1.0	2014	2.43	-	-	-	-	-
A006-2.5	2.5	2014	1.36	-	-	-	-	-
A006-5.0	5.0	2014	1.60	<0.05	-	-	-	-
A007-0.5	0.5	2014	8.67	-	-	-	-	-
A007-1.0	1.0	2014	1.58	-	-	-	-	-
A007-2.5	2.5	2014	2.77	<0.05	-	-	-	-
A007-5.0	5.0	2014	1.56	-	-	-	-	-

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 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
A008-0.5	0.5	2014	<b>3.62</b>	<0.05	<0.05	-	<b>6.78</b>	-
A008-1.0	1.0	2014	<b>3.59</b>	-	-	-	-	-
A008-2.5	2.5	2014	<b>2.69</b>	-	-	-	-	-
A008-5.0	5.0	2014	<b>1.77</b>	<0.05	<0.05	-	-	-
A009-0.5	0.5	2014	<b>7.12</b>	-	-	-	-	-
A009-1.0	1.0	2014	<b>2.19</b>	-	-	-	-	-
A009-2.5	2.5	2014	<b>8.99</b>	-	-	-	-	-
A009-5.0	5.0	2014	<b>2.40</b>	-	-	-	-	-
A010-0.5	0.5	2014	<b>1.54</b>	-	-	-	-	-
A010-1.0	1.0	2014	<b>3.02</b>	-	-	-	-	-
A010-2.5	2.5	2014	<b>1.76</b>	-	-	-	-	-
A010-5.0	5.0	2014	<b>&lt;0.50</b>	-	-	-	-	-
A011-0.5	0.5	2014	<b>3.16</b>	-	-	-	-	-
A011-1.0	1.0	2014	<b>2.17</b>	-	-	-	-	-
A011-2.5	2.5	2014	<b>2.75</b>	-	-	-	-	-
A011-5.0	5.0	2014	<b>4.97</b>	-	<0.05	-	<b>8.10</b>	-
A012-0.5	0.5	2014	<b>11.5</b>	-	<b>0.207</b>	-	-	-
A012-1.0	1.0	2014	<b>3.08</b>	-	-	-	-	-
A012-2.5	2.5	2014	<b>2.26</b>	<0.05	-	-	-	-
A012-5.0	5.0	2014	<b>3.42</b>	-	-	-	-	-
A013-0.5	0.5	2014	<b>29.2</b>	-	-	-	-	-
A013-1.0	1.0	2014	<b>2.19</b>	-	-	-	-	-
A013-2.5	2.5	2014	<b>2.45</b>	-	-	-	-	-
A013-5.0	5.0	2014	<b>1.91</b>	-	-	-	-	-
A014-0.5	0.5	2014	<b>4.20</b>	-	-	-	-	-
A014-1.0	1.0	2014	<b>3.01</b>	-	-	-	-	-
A014-2.5	2.5	2014	<b>1.33</b>	-	-	-	-	-
A014-5.0	5.0	2014	<b>3.37</b>	-	-	-	-	-
A015-0.5	0.5	2014	<b>3.18</b>	-	-	-	-	-
A015-1.0	1.0	2014	<b>3.72</b>	-	-	-	<b>7.95</b>	-
A015-2.5	2.5	2014	<b>3.05</b>	-	-	-	-	-
A015-5.0	5.0	2014	<b>4.19</b>	<0.05	-	-	-	-
A016-0.5	0.5	2014	<b>6.75</b>	-	-	-	-	-
A016-1.0	1.0	2014	<b>3.61</b>	-	-	-	<b>8.34</b>	-
A016-2.5	2.5	2014	<b>3.29</b>	-	-	-	-	-
A016-5.0	5.0	2014	<b>3.31</b>	-	-	-	-	-
A017-0.5	0.5	2014	<b>3.50</b>	-	-	-	-	-
A017-1.0	1.0	2014	<b>2.53</b>	<0.05	-	-	<b>8.04</b>	-

Table 2  
 Summary of Lead in Soil  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
A017-2.5	2.5	2014	<b>2.43</b>	-	-	-	-	-
A017-5.0	5.0	2014	<b>3.08</b>	-	-	-	-	-
A018-0.5	0.5	2014	<b>4.85</b>	-	<0.05	-	-	-
A018-1.0	1.0	2014	<b>4.83</b>	-	-	-	-	-
A018-2.5	2.5	2014	<b>2.34</b>	-	-	-	-	-
A018-5.0	5.0	2014	<b>1.99</b>	-	-	-	-	-
A019-0.5	0.5	2014	<b>3.74</b>	-	-	-	-	-
A019-1.0	1.0	2014	<b>3.29</b>	-	-	-	-	-
A019-2.5	2.5	2014	<b>2.64</b>	-	-	-	-	-
A019-5.0	5.0	2014	<b>4.18</b>	-	-	-	-	-
A020-0.5	0.5	2014	<b>5.49</b>	-	-	-	-	-
A020-1.0	1.0	2014	<b>3.50</b>	-	<b>0.074</b>	-	-	-
A020-2.5	2.5	2014	<b>2.44</b>	-	-	-	-	-
A020-5.0	5.0	2014	<b>1.59</b>	-	-	-	-	-
A021-0.5	0.5	2014	<b>3.26</b>	-	-	-	-	-
A021-1.0	1.0	2014	<b>2.55</b>	-	-	-	-	-
A021-2.5	2.5	2014	<b>2.91</b>	-	-	-	-	-
A021-5.0	5.0	2014	<b>2.66</b>	-	-	-	-	-
A022-0.5	0.5	2014	<b>3.73</b>	-	-	-	-	-
A022-1.0	1.0	2014	<b>2.43</b>	-	-	-	<b>7.97</b>	-
A022-2.5	2.5	2014	<b>4.23</b>	-	-	-	-	-
A022-5.0	5.0	2014	<b>3.19</b>	-	-	-	-	-
A023-0.5	0.5	2014	<b>15.2</b>	-	-	-	-	-
A023-1.0	1.0	2014	<b>4.70</b>	-	-	-	<b>8.41</b>	-
A023-2.5	2.5	2014	<b>3.63</b>	-	-	-	-	-
A023-5.0	5.0	2014	<b>3.11</b>	-	-	-	-	-
A024-0.5	0.5	2014	<b>5.63</b>	-	-	-	-	-
A024-1.0	1.0	2014	<b>4.01</b>	-	-	-	-	-
A024-2.5	2.5	2014	<b>2.58</b>	-	-	-	-	-
A024-5.0	5.0	2014	<b>3.37</b>	-	-	-	-	-
A025-0.5	0.5	2014	<b>6.04</b>	-	-	-	-	-
A025-1.0	1.0	2014	<b>3.57</b>	-	-	-	-	-
A025-2.5	2.5	2014	<b>2.66</b>	-	<0.05	-	-	-
A025-5.0	5.0	2014	<b>3.01</b>	-	-	-	-	-
A026-0.5	0.5	2014	<b>6.14</b>	-	-	-	-	-
A026-1.0	1.0	2014	<b>2.93</b>	-	-	-	-	-
A026-2.5	2.5	2014	<b>2.10</b>	-	<0.05	-	-	-
A026-5.0	5.0	2014	<b>2.88</b>	-	-	-	-	-

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
A027-0.5	0.5	2014	3.79	-	-	-	-	-
A027-1.0	1.0	2014	4.3	-	<0.05	-	-	-
A027-2.5	2.5	2014	3.11	-	-	-	-	-
A027-5.0	5.0	2014	2.65	-	-	-	7.71	-
A028-0.5	0.5	2014	6.81	-	-	-	-	-
A028-1.0	1.0	2014	3.87	-	-	-	-	-
A028-2.5	2.5	2014	3.16	-	-	-	-	-
A028-5.0	5.0	2014	3.58	-	-	-	-	-
A029-0.5	0.5	2014	5.40	-	-	-	-	-
A029-1.0	1.0	2014	3.65	-	-	-	-	-
A029-2.5	2.5	2014	4.27	-	-	-	-	-
A029-5.0	5.0	2014	3.57	-	-	-	-	-
B001-0.5	0.5	2014	47.1	-	-	-	-	-
B001-1.0	1.0	2014	7.75	-	-	-	-	-
B001-2.5	2.5	2014	14.1	-	-	-	8.20	-
B001-5.0	5.0	2014	1.36	-	-	-	-	-
B002-0.5	0.5	2014	12.3	-	-	-	-	-
B002-1.0	1.0	2014	8.18	-	-	-	-	-
B002-2.5	2.5	2014	3.31	-	-	-	-	-
B002-5.0	5.0	2014	1.41	-	-	-	-	-
B003-0.5	0.5	2014	2.83	0.086	-	-	-	-
B003-1.0	1.0	2014	2.13	-	<0.05	-	-	-
B003-2.5	2.5	2014	2.31	-	-	-	-	-
B003-5.0	5.0	2014	1.11	-	-	-	7.86	-
B004-0.5	0.5	2014	9.35	-	0.119	-	-	-
B004-1.0	1.0	2014	3.12	-	-	-	-	-
B004-2.5	2.5	2014	2.91	-	-	-	-	-
B004-5.0	5.0	2014	4.05	-	-	-	-	-
B005-0.5	0.5	2014	4.77	-	-	-	-	-
B005-1.0	1.0	2014	2.03	-	-	-	-	-
B005-2.5	2.5	2014	3.46	-	-	-	-	-
B005-5.0	5.0	2014	1.32	-	-	-	-	-
B006-0.5	0.5	2014	3.66	-	-	-	-	-
B006-1.0	1.0	2014	3.18	-	-	-	-	-
B006-2.5	2.5	2014	1.89	-	-	-	-	-
B006-5.0	5.0	2014	<0.50	-	-	-	-	-
B007-0.5	0.5	2014	1.29	-	-	-	-	-
B007-1.0	1.0	2014	3.73	-	-	-	-	-

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
B007-2.5	2.5	2014	<b>0.973</b>	-	-	-	<b>7.58</b>	-
B007-5.0	5.0	2014	<b>1.35</b>	-	-	-	-	-
B009-0.5	0.5	2014	<b>3.23</b>	-	-	-	-	-
B009-1.0	1.0	2014	<b>3.28</b>	<0.05	-	-	<b>8.42</b>	-
B009-2.5	2.5	2014	<b>1.91</b>	-	-	-	-	-
B009-5.0	5.0	2014	<b>2.67</b>	-	-	-	-	-
B010-0.5	0.5	2014	<b>3.05</b>	-	-	-	-	-
B010-1.0	1.0	2014	<b>2.53</b>	-	-	-	-	-
B010-2.5	2.5	2014	<b>3.19</b>	-	<0.05	-	-	-
B010-5.0	5.0	2014	<b>1.96</b>	<0.05	-	-	-	-
B011-0.5	0.5	2014	<b>10.8</b>	-	-	-	-	-
B011-1.0	1.0	2014	<b>&lt;0.50</b>	-	-	-	-	-
B011-2.5	2.5	2014	<b>0.734</b>	-	-	-	-	-
B011-5.0	5.0	2014	<b>1.52</b>	-	<0.05	-	-	-
B012-0.5	0.5	2014	<b>47.2</b>	-	-	-	-	-
B012-1.0	1.0	2014	<b>2.06</b>	-	-	-	-	-
B012-2.5	2.5	2014	<b>2.58</b>	-	-	-	-	-
B012-5.0	5.0	2014	<b>1.24</b>	-	-	-	-	-
B013-0.5	0.5	2014	<b>5.40</b>	-	-	-	-	-
B013-1.0	1.0	2014	<b>2.09</b>	-	-	-	-	-
B013-2.5	2.5	2014	<b>2.43</b>	-	-	-	<b>8.40</b>	-
B013-5.0	5.0	2014	<b>3.59</b>	<0.05	-	-	-	-
B014-0.5	0.5	2014	<b>16.1</b>	-	-	-	-	-
B014-1.0	1.0	2014	<b>1.99</b>	-	-	-	-	-
B014-2.5	2.5	2014	<b>2.44</b>	-	-	-	<b>8.44</b>	-
B014-5.0	5.0	2014	<b>2.47</b>	-	-	-	-	-
B015-0.5	0.5	2014	<b>3.62</b>	-	-	-	<b>8.61</b>	-
B015-1.0	1.0	2014	<b>1.21</b>	-	-	-	-	-
B015-2.5	2.5	2014	<b>4.07</b>	-	-	-	-	-
B015-5.0	5.0	2014	<b>3.31</b>	-	-	-	-	-
B016-0.5	0.5	2014	<b>6.73</b>	-	-	-	-	-
B016-1.0	1.0	2014	<b>3.51</b>	-	-	-	-	-
B016-2.5	2.5	2014	<b>4.06</b>	-	-	-	-	-
B016-5.0	5.0	2014	<b>1.95</b>	-	-	-	-	-
B017-0.5	0.5	2014	<b>4.15</b>	-	-	-	-	-
B017-1.0	1.0	2014	<b>5.19</b>	-	-	-	-	-
B017-2.5	2.5	2014	<b>4.34</b>	-	-	-	-	-
B017-5.0	5.0	2014	<b>2.62</b>	<0.05	-	-	-	-

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
B018-0.5	0.5	2014	4.77	-	-	-	-	-
B018-1.0	1.0	2014	3.07	-	-	-	-	-
B018-2.5	2.5	2014	1.97	-	-	-	-	-
B018-5.0	5.0	2014	2.67	-	-	-	-	-
B019-0.5	0.5	2014	16.3	0.112	0.058	-	-	-
B019-1.0	1.0	2014	2.29	<0.05	-	-	7.36	-
B019-2.5	2.5	2014	2.59	-	<0.05	-	-	-
B019-5.0	5.0	2014	1.88	-	<0.05	-	-	-
B020-0.5	0.5	2014	2.67	-	-	-	-	-
B020-1.0	1.0	2014	3.29	-	-	-	-	-
B020-2.5	2.5	2014	2.89	-	-	-	-	-
B020-5.0	5.0	2014	4.86	-	-	-	-	-
B021-0.5	0.5	2014	4.53	0.127	-	-	-	-
B021-1.0	1.0	2014	4.67	-	-	-	-	-
B021-2.5	2.5	2014	4.64	-	-	-	-	-
B021-5.0	5.0	2014	3.76	-	-	-	-	-
B022-0.5	0.5	2014	4.14	-	-	-	-	-
B022-1.0	1.0	2014	5.49	-	-	-	-	-
B022-2.5	2.5	2014	1.38	-	<0.05	-	-	-
B022-5.0	5.0	2014	1.60	<0.05	-	-	-	-
B023-0.5	0.5	2014	3.16	-	-	-	-	-
B023-1.0	1.0	2014	3.38	-	-	-	-	-
B023-2.5	2.5	2014	3.06	-	-	-	-	-
B023-5.0	5.0	2014	3.69	<0.05	-	-	-	-
B024-0.5	0.5	2014	4.39	-	-	-	-	-
B024-1.0	1.0	2014	4.26	-	-	-	-	-
B024-2.5	2.5	2014	3.51	-	-	-	7.60	-
B024-5.0	5.0	2014	3.37	<0.05	-	-	-	-
B025-0.5	0.5	2014	4.56	-	-	-	8.02	-
B025-1.0	1.0	2014	3.57	-	-	-	-	-
B025-2.5	2.5	2014	2.57	-	-	-	-	-
B025-5.0	5.0	2014	3.57	-	-	-	-	-
B026-0.5	0.5	2014	5.07	-	-	-	-	-
B026-1.0	1.0	2014	3.12	-	-	-	-	-
B026-2.5	2.5	2014	2.84	-	-	-	-	-
B026-5.0	5.0	2014	2.07	-	-	-	-	-
B027-0.5	0.5	2014	5.98	-	-	-	-	-
B027-1.0	1.0	2014	4.03	-	-	-	-	-



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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
B027-2.5	2.5	2014	<b>2.10</b>	-	-	-	<b>8.14</b>	-
B027-5.0	5.0	2014	<b>0.51</b>	-	-	-	-	-
B028-0.5	0.5	2014	<b>4.18</b>	-	-	-	<b>8.03</b>	-
B028-1.0	1.0	2014	<b>1.09</b>	-	<0.05	-	-	-
B028-2.5	2.5	2014	<b>2.32</b>	-	-	-	-	-
B028-5.0	5.0	2014	<b>6.80</b>	-	-	-	-	-
B029-0.5	0.5	2014	<b>3.82</b>	<b>0.063</b>	-	-	-	-
B029-1.0	1.0	2014	<b>2.86</b>	-	-	-	-	-
B029-2.5	2.5	2014	<b>3.86</b>	-	-	-	<b>7.44</b>	-
B029-5.0	5.0	2014	<b>2.94</b>	-	-	-	-	-
C0001-0.5	0.5	2014	<b>2.27</b>	-	-	-	-	-
C0001-1.0	1.0	2014	<b>2.24</b>	-	-	-	-	-
C0001-2.5	2.5	2014	<b>2.17</b>	-	-	-	-	-
C0001-5.0	5.0	2014	<b>1.86</b>	-	-	-	<b>8.29</b>	-
C0002-0.5	0.5	2014	<b>14.0</b>	<b>0.623</b>	<0.05	-	-	-
C0002-1.0	1.0	2014	<b>2.02</b>	-	-	-	-	-
C0002-2.5	2.5	2014	<b>2.56</b>	-	-	-	-	-
C0002-5.0	5.0	2014	<b>2.55</b>	-	-	-	-	-
C0003-0.5	0.5	2014	<b>3.06</b>	-	-	-	-	-
C0003-1.0	1.0	2014	<b>2.47</b>	-	-	-	-	-
C0003-2.5	2.5	2014	<b>3.26</b>	-	-	-	-	-
C0003-5.0	5.0	2014	<b>3.38</b>	-	-	-	-	-
C0004-0.5	0.5	2014	<b>3.10</b>	-	-	-	-	-
C0004-1.0	1.0	2014	<b>2.10</b>	-	-	-	-	-
C0004-2.5	2.5	2014	<b>2.28</b>	-	-	-	-	-
C0004-5.0	5.0	2014	<b>3.05</b>	-	-	-	-	-
C0005-0.5	0.5	2014	<b>22.8</b>	-	-	-	-	-
C0005-1.0	1.0	2014	<b>2.48</b>	-	-	-	-	-
C0005-2.5	2.5	2014	<b>6.00</b>	-	-	-	-	-
C0005-5.0	5.0	2014	<b>1.62</b>	-	-	-	-	-
C0006-0.5	0.5	2014	<b>7.57</b>	<b>0.586</b>	<0.05	-	-	-
C0006-1.0	1.0	2014	<b>49.0</b>	-	-	-	-	-
C0006-2.5	2.5	2014	<b>3.36</b>	-	-	-	-	-
C0006-5.0	5.0	2014	<b>1.96</b>	-	-	-	-	-
C0007-0.5	0.5	2014	<b>3.00</b>	<b>0.246</b>	<0.05	-	-	-
C0007-1.0	1.0	2014	<b>3.63</b>	-	-	-	-	-
C0007-2.5	2.5	2014	<b>3.70</b>	-	-	-	-	-
C0007-5.0	5.0	2014	<b>3.56</b>	-	-	-	-	-
C0008-0.5	0.5	2014	<b>7.00</b>	-	-	-	<b>7.02</b>	-

Table 2  
 Summary of Lead in Soil  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
C0008-1.0	1.0	2014	4.03	0.62	<0.05	-	-	-
C0008-2.0	2.0	2014	3.47	-	-	-	-	-
C0009-0.5	0.5	2014	11.9	-	-	-	-	-
C0009-1.0	1.0	2014	2.84	-	-	-	-	-
C0009-2.5	2.5	2014	2.71	-	-	-	-	-
C0009-5.0	5.0	2014	9.80	-	-	-	-	-
C0010-0.5	0.5	2014	14.1	-	-	-	-	-
C0010-1.0	1.0	2014	1.78	-	-	-	-	-
C0010-2.5	2.5	2014	2.63	-	-	-	-	-
C0010-5.0	5.0	2014	2.86	-	-	-	-	-
C0011-0.5	0.5	2014	16.5	-	-	-	-	-
C0011-1.0	1.0	2014	33.4	-	-	-	-	-
C0012-0.5	0.5	2014	4.02	-	-	-	-	-
C0012-1.0	1.0	2014	5.30	-	-	-	-	-
C0012-2.0	2.5	2014	10.7	-	-	-	-	-
C0013-0.5	0.5	2014	19.7	-	-	-	7.53	-
C0013-1.0	1.0	2014	4.14	-	-	-	-	-
C0013-2.5	2.5	2014	3.27	<0.05	<0.05	-	-	-
C0013-5.0	5.0	2014	3.66	-	-	-	8.16	-
C0014-0.5	0.5	2014	5.49	-	-	-	-	-
C0014-1.0	1.0	2014	2.54	-	-	-	-	-
C0014-2.5	2.5	2014	4.63	0.114	<0.05	-	-	-
C0014-5.0	5.0	2014	5.67	-	-	-	-	-
C0015-0.5	0.5	2014	4.00	-	-	-	-	-
C0016-0.5	0.5	2014	2.08	0.215	<0.05	-	-	-
C0016-1.0	1.0	2014	1.08	-	-	-	-	-
C0016-2.0	2.0	2014	1.70	-	-	-	-	-
C0017-0.5	0.5	2014	49.9	-	-	-	-	-
C0017-1.0	1.0	2014	5.86	<0.05	<0.05	-	-	-
C0017-2.5	2.5	2014	4.66	-	-	-	-	-
C0017-5.0	5.0	2014	4.00	-	-	-	-	-
C0018-0.5	0.5	2014	3.22	-	-	-	7.55	-
C0018-1.0	1.0	2014	6.15	-	-	-	-	-
C0018-2.0	2.0	2014	4.74	-	-	-	-	-
C0019-0.5	0.5	2014	4.95	-	-	-	-	-
C0019-1.0	1.0	2014	4.53	-	-	-	-	-
C0019-2.5	2.5	2014	4.63	-	-	-	-	-
C0019-4.0	4.0	2014	4.42	-	-	-	-	-
C0020-0.5	0.5	2014	29.7	-	-	-	-	-
C0020-1.0	1.0	2014	5.26	-	-	-	7.92	-

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Sample ID	Depth (feet)	Date	TTLIC Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
C0020-2.0	2.0	2014	<b>4.88</b>	-	-	-	-	-
C0021-0.5	0.5	2014	<b>3.58</b>	-	-	-	-	-
C0021-1.0	1.0	2014	<b>4.53</b>	-	-	-	<b>7.87</b>	-
C0021-2.5	2.5	2014	<b>4.46</b>	-	-	-	-	-
C0021-5.0	5.0	2014	<b>6.20</b>	-	-	-	-	-
C0022-0.5	0.5	2014	<b>4.23</b>	-	-	-	<b>8.15</b>	-
C0022-1.0	1.0	2014	<b>4.10</b>	-	-	-	<b>8.39</b>	-
C0022-2.5	2.5	2014	<b>4.69</b>	-	-	-	-	-
C0022-5.0	5.0	2014	<b>3.55</b>	-	-	-	-	-
C0023-0.5	0.5	2014	<b>3.52</b>	-	-	-	<b>7.92</b>	-
C0023-1.0	1.0	2014	<b>3.07</b>	-	-	-	-	-
C0023-2.5	2.5	2014	<b>4.99</b>	<b>0.413</b>	<b>0.159</b>	-	-	-
C0023-5.0	5.0	2014	<b>2.99</b>	-	-	-	-	-
C0024-0.5	0.5	2014	<b>4.01</b>	-	-	-	-	-
C0024-1.0	1.0	2014	<b>3.43</b>	-	-	-	-	-
C0024-2.5	2.5	2014	<b>3.20</b>	<0.05	<0.05	-	-	-
C0024-4.0	4.0	2014	<b>3.58</b>	-	-	-	-	-
C0025-0.5	0.5	2014	<b>5.94</b>	-	-	-	-	-
C0025-1.0	1.0	2014	<b>2.39</b>	-	-	-	-	-
C0025-2.5	2.5	2014	<b>6.31</b>	-	-	-	-	-
C0025-5.0	5.0	2014	<b>3.10</b>	-	-	-	-	-
C0026-0.5	0.5	2014	<b>19.4</b>	<b>0.088</b>	<0.05	-	-	-
C0026-1.0	1.0	2014	<b>19.7</b>	-	-	-	-	-
C0026-2.5	2.5	2014	<b>3.31</b>	-	-	-	-	-
C0026-5.0	5.0	2014	<b>4.69</b>	<0.05	<0.05	-	-	-
C0027-0.5	0.5	2014	<b>2.96</b>	-	-	-	-	-
C0027-1.0	1.0	2014	<b>2.05</b>	-	-	-	-	-
C0027-2.5	2.5	2014	<b>3.07</b>	<0.05	<0.05	-	-	-
C0027-5.0	5.0	2014	<b>3.29</b>	-	-	-	-	-
C0028-0.5	0.5	2014	<b>5.62</b>	-	-	-	-	-
C0028-1.0	1.0	2014	<b>6.97</b>	-	-	-	-	-
C0028-2.5	2.5	2014	<b>4.44</b>	-	-	-	-	-
C0028-5.0	5.0	2014	<b>2.52</b>	-	-	-	-	-
C0029-0.5	0.5	2014	<b>5.54</b>	-	-	-	-	-
C0029-1.0	1.0	2014	<b>4.89</b>	-	-	-	-	-
C0029-2.5	2.5	2014	<b>4.40</b>	-	-	-	-	-
C0029-5.0	5.0	2014	<b>6.22</b>	-	-	-	-	-
C0030-0.5	0.5	2014	<b>5.61</b>	-	-	-	-	-
C0030-1.0	1.0	2014	<b>4.34</b>	-	-	-	<b>7.76</b>	-
C0030-2.5	2.5	2014	<b>5.26</b>	-	-	-	-	-

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Sample ID	Depth (feet)	Date	TTLIC Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
C0030-5.0	5.0	2014	3.90	-	-	-	-	-
C0031-0.5	0.5	2014	13.4	-	-	-	-	-
C0031-1.0	1.0	2014	6.71	-	-	-	-	-
C0031-2.5	2.5	2014	5.23	-	-	-	7.53	-
C0031-5.0	5.0	2014	4.28	-	-	-	-	-
C0032-0.5	0.5	2014	5.99	-	-	-	8.36	-
C0032-1.0	1.0	2014	6.00	-	-	-	-	-
C0032-2.5	2.5	2014	5.10	-	-	-	-	-
C0032-5.0	5.0	2014	5.18	-	-	-	-	-
C0033-0.5	0.5	2014	4.46	-	-	-	-	-
C0033-1.0	1.0	2014	5.16	-	-	-	-	-
C0033-2.5	2.5	2014	6.16	-	-	-	-	-
C0033-5.0	5.0	2014	6.15	-	-	-	-	-
C0034-0.5	0.5	2014	5.81	-	-	-	-	-
C0034-1.0	1.0	2014	6.54	-	-	-	8.26	-
C0034-2.5	2.5	2014	5.70	-	-	-	-	-
C0034-5.0	5.0	2014	4.72	-	-	-	-	-
C0035-0.5	0.5	2014	6.50	0.208	<0.05	-	-	-
C0035-1.0	1.0	2014	5.41	-	-	-	-	-
C0035-2.5	2.5	2014	5.09	-	-	-	-	-
C0035-5.0	5.0	2014	3.29	-	-	-	-	-
C0036-0.5	0.5	2014	4.40	-	-	-	-	-
C0036-1.0	1.0	2014	4.36	-	-	-	-	-
C0036-2.5	2.5	2014	5.02	-	-	-	-	-
C0036-5.0	5.0	2014	4.52	-	-	-	-	-
C0037-0.5	0.5	2014	5.25	0.209	<0.05	-	-	-
C0037-1.0	1.0	2014	5.02	-	-	-	-	-
C0037-2.5	2.5	2014	5.80	-	-	-	-	-
C0037-5.0	5.0	2014	7.86	-	-	-	-	-
C0038-0.5	0.5	2014	8.50	0.56	<0.05	-	-	-
C0038-1.0	1.0	2014	6.28	-	-	-	-	-
C0038-2.5	2.5	2014	11.2	-	-	-	7.04	-
C0038-5.0	5.0	2014	4.55	-	-	-	-	-
C0039-0.5	0.5	2014	5.16	-	-	-	-	-
C0039-1.0	1.0	2014	3.91	-	-	-	-	-
C0039-2.5	2.5	2014	5.44	-	-	-	-	-
C0039-5.0	5.0	2014	5.57	-	-	-	-	-
C0040-0.5	0.5	2014	9.14	-	-	-	-	-
C0040-1.0	1.0	2014	4.26	-	-	-	-	-
C0040-2.5	2.5	2014	3.36	-	-	-	-	-

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
C0040-5.0	5.0	2014	5.38	-	-	-	-	-
C0041-0.5	0.5	2014	3.40	-	-	-	-	-
C0041-1.0	1.0	2014	4.46	-	-	-	-	-
C0041-2.5	2.5	2014	4.77	-	-	-	-	-
C0041-5.0	5.0	2014	5.58	-	-	-	-	-
C0042-0.5	0.5	2014	2.67	-	-	-	7.59	-
C0042-1.0	1.0	2014	2.95	-	-	-	-	-
C0042-2.5	2.5	2014	11.9	-	-	-	8.10	-
C0042-5.0	5.0	2014	3.88	0.061	<0.05	-	-	-
C0043-0.5	0.5	2014	3.66	-	-	-	-	-
C0043-1.0	1.0	2014	6.69	-	-	-	-	-
C0043-2.5	2.5	2014	5.15	-	-	-	-	-
C0043-5.0	5.0	2014	4.30	0.087	<0.05	-	7.63	-
D0004-0.5	0.5	2014	3.55	-	-	-	-	-
D0004-1.0	1.0	2014	3.82	-	-	-	-	-
D0004-2.5	2.5	2014	9.10	-	-	-	-	-
D0004-5.0	5.0	2014	11.4	-	-	-	6.96	-
D0005-0.5	0.5	2014	3.53	<0.05	<0.05	-	-	-
D0005-1.0	1.0	2014	3.56	-	-	-	-	-
D0005-2.5	2.5	2014	6.50	-	-	-	-	-
D0005-5.0	5.0	2014	2.41	-	-	-	-	-
D0006-0.5	0.5	2014	11.5	-	-	-	-	-
D0006-1.0	1.0	2014	9.11	-	-	-	-	-
D0006-2.5	2.5	2014	3.56	-	-	-	-	-
D0006-5.0	5.0	2014	3.20	-	-	-	-	-
D0007-0.5	0.5	2014	6.02	-	-	-	-	-
D0007-1.0	1.0	2014	3.14	-	-	-	-	-
D0007-2.5	2.5	2014	2.44	-	-	-	-	-
D0007-5.0	5.0	2014	3.17	<0.05	<0.05	-	-	-
D0008-0.5	0.5	2014	2.78	-	-	-	-	-
D0008-1.0	1.0	2014	3.77	-	-	-	-	-
D0008-2.5	2.5	2014	4.28	-	-	-	8.33	-
D0008-5.0	5.0	2014	2.09	-	-	-	-	-
D0009-0.5	0.5	2014	2.94	-	-	-	-	-
D0009-1.0	1.0	2014	2.74	-	-	-	-	-
D0009-2.5	2.5	2014	2.77	-	-	-	-	-
D0009-5.0	5.0	2014	3.12	-	-	-	7.84	-
D0010-0.5	0.5	2014	31.9	-	-	-	-	-
D0010-1.0	1.00	2014	3.42	<0.05	<0.05	-	-	-
D0010-2.5	2.5	2014	6.18	-	-	-	-	-

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
D0010-5.0	5.0	2014	3.27	-	-	-	-	-
D0011-0.5	0.5	2014	8.35	-	-	-	-	-
D0011-1.0	1.0	2014	4.36	-	-	-	-	-
D0011-2.5	2.5	2014	10.1	-	-	-	-	-
D0011-5.0	5.0	2014	2.87	-	-	-	-	-
D0012-0.5	0.5	2014	27.3	-	-	-	-	-
D0012-1.0	1.0	2014	10.4	-	-	-	8.62	-
D0013-0.5	0.5	2014	10.3	-	-	-	-	-
D0013-1.0	1.0	2014	5.18	-	-	-	-	-
D0013-2.5	2.5	2014	5.66	-	-	-	-	-
D0013-5.0	5.0	2014	2.31	-	-	-	-	-
D0014-0.5	0.5	2014	3.20	-	-	-	-	-
D0014-1.0	1.0	2014	2.40	-	-	-	-	-
D0014-2.5	2.5	2014	9.86	-	-	-	-	-
D0014-4.0	4.0	2014	2.35	-	-	-	-	-
D0015-0.5	0.5	2014	12.0	0.496	0.054	-	-	-
D0015-1.0	1.0	2014	4.55	-	-	-	-	-
D0015-2.5	2.5	2014	3.82	-	-	-	-	-
D0015-5.0	5.0	2014	3.24	-	-	-	-	-
D0016-0.5	0.5	2014	7.81	0.176	0.055	-	7.13	-
D0016-1.0	1.0	2014	12.4	-	-	-	-	-
D0016-2.5	2.5	2014	5.18	-	-	-	-	-
D0016-3.5	3.5	2014	3.94	-	-	-	8.07	-
D0017-0.5	0.5	2014	5.18	<0.05	<0.05	-	-	-
D0017-1.0	1.0	2014	5.61	-	-	-	-	-
D0017-2.0	2.0	2014	6.29	<0.05	<0.05	-	-	-
D0018-0.5	0.5	2014	5.51	-	-	-	-	-
D0018-1.0	1.0	2014	3.13	-	-	-	7.59	-
D0019-0.5	0.5	2014	3.99	-	-	-	-	-
D0019-1.0	1.0	2014	2.92	-	-	-	8.12	-
D0019-2.0	2.0	2014	4.48	-	-	-	-	-
D0020-0.5	0.5	2014	9.05	0.347	<0.05	-	-	-
D0020-0.5	0.5	2014	4.69	0.347	<0.05	-	-	-
D0020-1.0	1.0	2014	3.48	-	-	-	-	-
D0020-2.5	2.5	2014	4.32	-	-	-	-	-
D0020-5.0	5.0	2014	4.09	<0.05	<0.05	-	-	-
D0021-0.5	0.5	2014	4.69	-	-	-	-	-
D0021-1.0	1.0	2014	2.58	-	-	-	-	-
D0021-2.5	2.5	2014	2.34	-	-	-	-	-
D0021-5.0	5.0	2014	3.39	-	-	-	-	-

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Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
D0022-0.5	0.5	2014	3.77	-	-	-	-	-
D0022-1.0	1.0	2014	4.08	<0.05	<0.05	-	8.63	-
D0023-0.5	0.5	2014	41.0	-	-	-	-	-
D0023-1.0	1.0	2014	3.90	-	-	-	-	-
D0023-2.5	2.5	2014	3.79	-	-	-	8.42	-
D0023-5.0	5.0	2014	4.29	-	-	-	-	-
D0024-0.5	0.5	2014	3.29	-	-	-	-	-
D0024-1.0	1.0	2014	4.19	-	-	-	-	-
D0024-2.5	2.5	2014	4.47	-	-	-	-	-
D0024-4.0	4.0	2014	3.39	-	-	-	-	-
D0025-0.5	0.5	2014	6.66	-	-	-	-	-
D0025-1.0	1.0	2014	3.09	-	-	-	-	-
D0025-2.5	2.5	2014	5.47	-	-	-	-	-
D0025-5.0	5.0	2014	1.98	-	-	-	-	-
D0026-0.5	0.5	2014	14.6	-	-	-	-	-
D0026-1.0	1.0	2014	2.61	-	-	-	-	-
D0026-2.5	2.5	2014	3.40	-	-	-	-	-
D0026-4.0	4.0	2014	2.07	-	-	-	-	-
D0027-0.5	0.5	2014	9.30	-	-	-	-	-
D0027-1.0	1.0	2014	3.28	-	-	-	-	-
D0027-2.5	2.5	2014	3.15	-	-	-	-	-
D0028-0.5	0.5	2014	124	0.284	0.173	-	-	-
D0028-1.0	1.0	2014	5.72	-	-	-	-	-
D0028-2.5	2.5	2014	24.2	1.4	<0.05	-	7.84	-
D0028-5.0	5.0	2014	5.77	-	-	-	-	-
D0029-0.5	0.5	2014	5.39	0.121	<0.05	-	-	-
D0029-1.0	1.0	2014	3.96	-	-	-	-	-
D0029-2.5	2.5	2014	9.85	-	-	-	-	-
D0029-5.0	5.0	2014	14.4	-	-	-	-	-
D0030-0.5	0.5	2014	5.61	-	-	-	-	-
D0030-1.0	1.0	2014	4.81	0.131	<0.05	-	-	-
D0030-2.5	2.5	2014	6.02	-	-	-	-	-
D0030-5.0	5.0	2014	4.96	0.068	0.052	-	-	-
D0031-0.5	0.5	2014	4.35	-	-	-	-	-
D0031-1.0	1.0	2014	5.64	-	-	-	-	-
D0031-2.5	2.5	2014	6.08	-	-	-	-	-
D0031-5.0	5.0	2014	12.3	-	-	-	7.38	-
D0032-0.5	0.5	2014	4.71	-	-	-	7.05	-
D0032-1.0	1.0	2014	5.76	-	-	-	-	-
D0032-2.5	2.5	2014	5.09	-	-	-	-	-

Table 2  
 Summary of Lead in Soil  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
D0032-5.0	5.0	2014	5.17	-	-	-	-	-
D0033-0.5	0.5	2014	4.67	-	-	-	6.74	-
D0033-1.0	1.0	2014	4.70	-	-	-	-	-
D0033-2.5	2.5	2014	4.86	-	-	-	-	-
D0033-5.0	5.0	2014	2.12	-	-	-	-	-
D0034-0.5	0.5	2014	5.79	-	-	-	-	-
D0034-1.0	1.0	2014	4.62	-	-	-	-	-
D0034-2.5	2.5	2014	2.68	-	-	-	-	-
D0034-5.0	5.0	2014	2.54	-	-	-	-	-
D0035-0.5	0.5	2014	4.77	-	-	-	7.61	-
D0035-1.0	1.0	2014	4.86	-	-	-	-	-
D0035-2.5	2.5	2014	4.46	-	-	-	-	-
D0035-5.0	5.0	2014	6.18	-	-	-	-	-
D0036-0.5	0.5	2014	4.48	-	-	-	7.94	-
D0036-1.0	1.0	2014	5.21	-	-	-	-	-
D0036-2.5	2.5	2014	4.01	1.05	<0.05	-	8.43	-
D0036-5.0	5.0	2014	5.81	-	-	-	-	-
D0037-0.5	0.5	2014	5.42	-	-	-	-	-
D0037-1.0	1.0	2014	4.28	-	-	-	7.98	-
D0037-2.5	2.5	2014	3.35	0.076	<0.05	-	-	-
D0037-5.0	5.0	2014	6.01	-	-	-	-	-
D0038-0.5	0.5	2014	5.14	-	-	-	-	-
D0038-1.0	1.0	2014	7.00	-	-	-	-	-
D0038-2.5	2.5	2014	7.38	-	-	-	-	-
D0038-5.0	5.0	2014	4.78	-	-	-	-	-
D0039-0.5	0.5	2014	7.04	-	-	-	-	-
D0039-1.0	1.0	2014	7.48	-	-	-	-	-
D0039-2.5	2.5	2014	4.76	-	-	-	-	-
D0039-5.0	5.0	2014	8.36	-	-	-	-	-
D0040-0.5	0.5	2014	5.91	-	-	-	-	-
D0040-1.0	1.0	2014	5.53	-	-	-	-	-
D0040-2.5	2.5	2014	5.42	-	-	-	-	-
D0040-5.0	5.0	2014	3.14	-	-	-	7.34	-
D0041-0.5	0.5	2014	4.71	-	-	-	-	-
D0041-1.0	1.0	2014	5.12	-	-	-	-	-
D0041-2.5	2.5	2014	4.68	0.17	<0.05	-	-	-
D0041-5.0	5.0	2014	3.94	-	-	-	-	-
D0042-0.5	0.5	2014	8.52	-	-	-	-	-
D0042-1.0	1.0	2014	3.77	-	-	-	-	-
D0042-2.5	2.5	2014	3.69	-	-	-	-	-



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 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

Sample ID	Depth (feet)	Date	TTLIC Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
D0042-5.0	5.0	2014	4.14	-	-	-	7.69	-
D0043-0.5	0.5	2014	4.34	-	-	-	-	-
D0043-1.0	1.0	2014	7.32	-	-	-	-	-
D0043-2.5	2.5	2014	3.73	-	-	-	-	-
D0043-5.0	5.0	2014	5.62	-	-	-	7.66	-
D0044-0.5	0.5	2014	4.14	0.056	<0.05	-	-	-
D0044-1.0	1.0	2014	2.96	-	-	-	-	-
D0044-2.5	2.5	2014	3.21	<0.05	<0.05	-	-	-
D0044-5.0	5.0	2014	3.47	-	-	-	-	-
<b>Leighton I-15 ADL Survey 2014 QA/QC Samples</b>								
A501-0.5	0.5	2014	2.66	-	-	-	-	-
A501-1.0	1.0	2014	1.47	-	-	-	-	-
A501-2.5	2.5	2014	1.43	-	-	-	-	-
A501-5.0	5.0	2014	5.37	-	-	-	-	-
B501-0.5	0.5	2014	12.3	-	-	-	-	-
B501-1.0	1.0	2014	7.97	-	-	-	-	-
B501-2.5	2.5	2014	8.35	-	-	-	8.01	-
B501-5.0	5.0	2014	7.47	-	-	-	-	-
B509-0.5	0.5	2014	7.82	-	-	-	-	-
B509-1.0	1.0	2014	2.48	-	-	-	8.74	-
B509-2.5	2.5	2014	1.74	-	-	-	-	-
B509-5.0	5.0	2014	1.88	-	-	-	-	-
B517-0.5	0.5	2014	10.5	-	-	-	-	-
B517-1.0	1.0	2014	4.65	-	-	-	-	-
B517-2.5	2.5	2014	2.67	-	-	-	-	-
B517-5.0	5.0	2014	2.93	-	-	-	-	-
C1017-0.5	0.5	2014	140	8.13	0.179	-	-	-
C1017-1.0	1.0	2014	7.18	-	-	-	-	-
C1017-2.5	2.5	2014	4.64	-	-	-	-	-
C1017-5.0	5.0	2014	5.68	-	-	-	-	-
C1027-0.5	0.5	2014	18.7	-	-	-	-	-
C1027-1.0	1.0	2014	3.82	-	-	-	8.35	-
C1027-2.5	2.5	2014	3.20	-	-	-	-	-
C1027-5.0	5.0	2014	4.04	-	-	-	7.96	-
C1042-0.5	0.5	2014	25.8	-	-	-	8.16	-
C1042-1.0	1.0	2014	3.57	-	-	-	-	-
C1042-2.5	2.5	2014	46.8	-	-	-	7.18	-
C1042-5.0	5.0	2014	4.85	-	-	-	-	-
D1006-0.5	0.5	2014	11.8	-	-	-	-	-

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 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
D1006-1.0	1.0	2014	4.61	-	-	-	-	-
D1006-2.5	2.5	2014	3.57	-	-	-	-	-
D1006-5.0	5.0	2014	2.41	-	-	-	-	-
D1014-0.5	0.5	2014	2.59	-	-	-	-	-
D1014-1.0	1.0	2014	2.62	-	-	-	-	-
D1014-2.5	2.5	2014	2.61	-	-	-	-	-
D1018-0.5	0.5	2014	4.24	-	-	-	-	-
D1018-1.0	1.0	2014	4.99	-	-	-	7.42	-
D1040-0.5	0.5	2014	6.08	-	-	-	-	-
D1040-1.0	1.0	2014	6.80	-	-	-	-	-
D1040-2.5	2.5	2014	9.82	-	-	-	-	-
D1040-5.0	5.0	2014	4.01	-	-	-	8.22	-
<b>Secor ADL Investigation (Secor, 2006)</b>								
HA-1-N-0.5	0.0-0.5	2006	2.0	-	-	-	-	-
HA-1-N-2	1.5-2.0	2006	1.0	-	-	-	-	-
HA-2-N-1	0.5-1.0	2006	2.5	-	-	-	-	-
HA-2-N-3	2.5-3.0	2006	1.2	-	-	-	-	-
HA-3-N-0.5	0.0-0.5	2006	8.0	-	-	-	-	-
HA-3-N-2	1.5-2.0	2006	3.5	-	-	-	-	-
HA-4-N-1	0.5-1.0	2006	2.7	-	-	-	-	-
HA-4-N-3	2.5-3.0	2006	1.0	-	-	-	-	-
HA-5-N-0.5	0.0-0.5	2006	7.5	-	-	-	-	-
HA-5-N-2	1.5-2.0	2006	1.2	-	-	-	-	-
HA-6-N-1	0.5-1.0	2006	2.1	-	-	-	-	-
HA-6-N-3	2.5-3.0	2006	1.5	-	-	-	-	-
HA-7-N-0.5	0.0-0.5	2006	1.7	-	-	-	-	-
HA-7-N-2	1.5-2.0	2006	3.5	-	-	-	-	-
HA-8-N-1	0.5-1.0	2006	1.9	-	-	-	-	-
HA-8-N-3	2.5-3.0	2006	1.2	-	-	-	-	-
HA-9-N-0.5	0.0-0.5	2006	30	-	-	-	-	-
HA-9-N-2	1.5-2.0	2006	2.0	-	-	-	-	-
HA-10-N-1	0.5-1.0	2006	1.1	-	-	-	-	-
HA-10-N-3	2.5-3.0	2006	2.1	-	-	-	-	-
HA-11-N-0.5	0.0-0.5	2006	19	-	-	-	-	-
HA-11-N-2	1.5-2.0	2006	7.7	-	-	-	-	-
HA-12-N-1	0.5-1.0	2006	1.0	-	-	-	-	-
HA-12-N-3	2.5-3.0	2006	2.0	-	-	-	-	-
HA-13-N-0.5	0.0-0.5	2006	2.2	-	-	-	-	-
HA-13-N-2	1.5-2.0	2006	1.5	-	-	-	-	-
HA-14-N-1	0.5-1.0	2006	4.9	-	-	-	-	-

Table 2  
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 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
HA-14-N-3	2.5-3.0	2006	5.4	-	-	-	-	-
HA-15-N-0.5	0.0-0.5	2006	1.0	-	-	-	-	-
HA-15-N-2	1.5-2.0	2006	4.2	-	-	-	-	-
HA-16-N-1	0.5-1.0	2006	22	-	-	-	-	-
HA-16-N-3	2.5-3.0	2006	1.9	-	-	-	-	-
HA-17-N-0.5	0.0-0.5	2006	13	-	-	-	-	-
HA-17-N-2	1.5-2.0	2006	7.4	-	-	-	-	-
HA-18-N-1	0.5-1.0	2006	4.9	-	-	-	-	-
HA-18-N-3	2.5-3.0	2006	5.7	-	-	-	-	-
HA-19-N-0.5	0.0-0.5	2006	8.9	-	-	-	-	-
HA-19-N-2	1.5-2.0	2006	2.5	-	-	-	-	-
HA-20-N-1	0.5-1.0	2006	4.4	-	-	-	-	-
HA-20-N-3	2.5-3.0	2006	3.4	-	-	-	-	-
HA-21-N-0.5	0.0-0.5	2006	2.1	-	-	-	-	-
HA-21-N-2	1.5-2.0	2006	1.1	-	-	-	-	-
HA-22-N-1	0.5-1.0	2006	1.0	-	-	-	-	-
HA-22-N-3	2.5-3.0	2006	1.3	-	-	-	-	-
HA-23-N-0.5	0.0-0.5	2006	3.4	-	-	-	-	-
HA-23-N-2	1.5-2.0	2006	3.0	-	-	-	-	-
HA-24-N-1	0.5-1.0	2006	21	-	-	-	-	-
HA-24-N-3	2.5-3.0	2006	9.6	-	-	-	-	-
HA-25-N-0.5	0.0-0.5	2006	1.0	-	-	-	-	-
HA-25-N-2	1.5-2.0	2006	2.7	-	-	-	-	-
HA-26-N-1	0.5-1.0	2006	1.2	-	-	-	-	-
HA-26-N-3	2.5-3.0	2006	4.3	-	-	-	-	-
HA-27-N-0.5	0.0-0.5	2006	6.4	-	-	-	-	-
HA-27-N-2	1.5-2.0	2006	4.7	-	-	-	-	-
HA-28-N-1	0.5-1.0	2006	16	-	-	-	-	-
HA-28-N-3	2.5-3.0	2006	8.4	-	-	-	-	-
HA-29-N-0.5	0.0-0.5	2006	4.3	-	-	-	-	-
HA-29-N-2	1.5-2.0	2006	3.4	-	-	-	-	-
HA-30-N-1	0.5-1.0	2006	37	-	-	-	-	-
HA-30-N-3	2.5-3.0	2006	17	-	-	-	-	-
HA-31-N-0.5	0.0-0.5	2006	13	-	-	-	-	-
HA-31-N-2	1.5-2.0	2006	3.7	-	-	-	-	-
HA-32-N-1	0.5-1.0	2006	1.1	-	-	-	-	-
HA-32-N-3	2.5-3.0	2006	1.0	-	-	-	-	-
HA-33-N-0.5	0.0-0.5	2006	3.9	-	-	-	-	-
HA-33-N-2	1.5-2.0	2006	2.5	-	-	-	-	-
HA-34-S-1	0.5-1.0	2006	5.0	-	-	-	-	-

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 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

Sample ID	Depth (feet)	Date	TTL Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
HA-34-S-3	2.5-3.0	2006	10	-	-	-	-	-
HA-35-S-0.5	0.0-0.5	2006	1.5	-	-	-	-	-
HA-35-S-2	1.5-2.0	2006	1.6	-	-	-	-	-
HA-36-S-1	0.5-1.0	2006	1.0	-	-	-	-	-
HA-36-S-3	2.5-3.0	2006	1.0	-	-	-	-	-
HA-37-S-0.5	0.0-0.5	2006	2.5	-	-	-	-	-
HA-37-S-2	1.5-2.0	2006	1.8	-	-	-	-	-
HA-38-S-1	0.5-1.0	2006	2.6	-	-	-	-	-
HA-38-S-3	2.5-3.0	2006	7.4	-	-	-	-	-
HA-39-S-0.5	0.0-0.5	2006	1.0	-	-	-	-	-
HA-39-S-2	1.5-2.0	2006	1.0	-	-	-	-	-
HA-40-S-1	0.5-1.0	2006	1.0	-	-	-	-	-
HA-40-S-3	2.5-3.0	2006	1.0	-	-	-	-	-
HA-41-S-0.5	0.0-0.5	2006	3.9	-	-	-	-	-
HA-41-S-2	1.5-2.0	2006	1.0	-	-	-	-	-
HA-42-S-1	0.5-1.0	2006	2.9	-	-	-	-	-
HA-42-S-3	2.5-3.0	2006	1.6	-	-	-	-	-
HA-43-S-0.5	0.0-0.5	2006	1.0	-	-	-	-	-
HA-43-S-2	1.5-2.0	2006	2.2	-	-	-	-	-
HA-44-S-1	0.5-1.0	2006	1.0	-	-	-	-	-
HA-44-S-3	2.5-3.0	2006	1.0	-	-	-	-	-
HA-45-S-0.5	0.0-0.5	2006	1.0	-	-	-	-	-
HA-45-S-2	1.5-2.0	2006	1.0	-	-	-	-	-
HA-46-S-1	0.5-1.0	2006	2.8	-	-	-	-	-
HA-46-S-3	2.5-3.0	2006	1.0	-	-	-	-	-
HA-47-S-0.5	0.0-0.5	2006	6.3	-	-	-	-	-
HA-47-S-2	1.5-2.0	2006	1.0	-	-	-	-	-
HA-48-S-1	0.5-1.0	2006	1.0	-	-	-	-	-
HA-48-S-3	2.5-3.0	2006	1.8	-	-	-	-	-
HA-49-S-0.5	0.0-0.5	2006	41	-	-	-	-	-
HA-49-S-2	1.5-2.0	2006	11	-	-	-	-	-
HA-50-S-1	0.5-1.0	2006	1.9	-	-	-	-	-
HA-50-S-2	1.5-2.0	2006	1.0	-	-	-	-	-
HA-51-S-0.5	0.0-0.5	2006	1.0	-	-	-	-	-
HA-51-S-2	1.5-2.0	2006	1.0	-	-	-	-	-
HA-52-S-1	0.5-1.0	2006	2.3	-	-	-	-	-
HA-52-S-3	2.5-3.0	2006	8.1	-	-	-	-	-
HA-53-S-0.5	0.0-0.5	2006	1.9	-	-	-	-	-
HA-53-S-2	1.5-2.0	2006	1.0	-	-	-	-	-
HA-54-S-1	0.5-1.0	2006	1.0	-	-	-	-	-

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 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga, and Fontana, California

Sample ID	Depth (feet)	Date	TTLC Lead (mg/kg)	WET-CA Lead (mg/l)	WET-DI Lead (mg/l)	TCLP Lead (mg/l)	pH	DF
HA-54-S-3	2.5-3.0	2006	1.0	-	-	-	-	-
HA-55-S-0.5	0.0-0.5	2006	4.2	-	-	-	-	-
HA-55-S-2	1.5-2.0	2006	1.1	-	-	-	-	-
HA-56-S-1	0.5-1.0	2006	3.3	-	-	-	-	-
HA-56-S-3	2.5-3.0	2006	1.0	-	-	-	-	-
HA-57-S-0.5	0.0-0.5	2006	3.4	-	-	-	-	-
HA-57-S-2	1.5-2.0	2006	1.2	-	-	-	-	-
HA-58-S-1	0.5-1.0	2006	1.5	-	-	-	-	-
HA-58-S-3	2.5-3.0	2006	1.6	-	-	-	-	-
HA-59-S-0.5	0.0-0.5	2006	2.5	-	-	-	-	-
HA-59-S-2	1.5-2.0	2006	1.0	-	-	-	-	-
HA-60-S-1	0.5-1.0	2006	2.3	-	-	-	-	-
HA-60-S-3	2.5-3.0	2006	4.6	-	-	-	-	-
HA-61-S-0.5	0.0-0.5	2006	1.0	-	-	-	-	-
HA-61-S-2	1.5-2.0	2006	1.0	-	-	-	-	-
HA-62-S-1	0.5-1.0	2006	1.1	-	-	-	-	-
HA-62-S-3	2.5-3.0	2006	1.0	-	-	-	-	-
HA-63-S-0.5	0.0-0.5	2006	1.0	-	-	-	-	-
HA-63-S-2	1.5-2.0	2006	1.0	-	-	-	-	-
HA-64-S-1	0.5-1.0	2006	1.0	-	-	-	-	-
HA-64-S-3	2.5-3.0	2006	2.8	-	-	-	-	-

## Notes:

TTLC = Total Threshold Limit Concentration

The highest 10% of the ADL TTLC lead samples or any sample containing between 50 and 1,000 milligrams per kilogram (mg/kg) will be analyzed for leachability using the citric acid Waste Extraction Test (WET-CA)

ADL samples containing leachable lead in excess of 5 milligrams per liter (mg/l) will be analyzed by the WET method using deionized water as the leachant (WET-DI).

\* = Analytes reported in milligrams per liter (mg/l)

- = Not analyzed

TCLP = Toxicity Characteristic Leaching Procedure

DF = Dilution Factor

mg/kg = milligrams per kilogram

NA = not applicable

Shaded values exceed the TTLC of ten times the STLC limit of 50 mg/kg for lead in soil or 5 mg/l for leachable lead by the WET-CA method

Boring Locations D001, D002, D003 and B008 were not included in the ADL survey by Leighton, 2010.

AL-140d-0.5: "d" denotes duplicate samples to distinguish from similar numbers to the primary samples.





Table 3  
 Summary of OCPs in Soil  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
 and Fontana, California

Sample ID	Depth (feet)	Date	Aldrin (mg/kg)	alpha-BHC (mg/kg)	beta-BHC (mg/kg)	Lindane (mg/kg)	delta-BHC (mg/kg)	alpha-Chlordane (mg/kg)	gamma-Chlordane (mg/kg)	Total Chlordane (mg/kg)	4,4'-DDD (mg/kg)	4,4'-DDE (mg/kg)	4,4'-DDT (mg/kg)	Dieldrin (mg/kg)	Endosulfan I (mg/kg)	Endosulfan II (mg/kg)	Endosulfan Sulfate (mg/kg)	Endrin (mg/kg)	Endrin Aldehyde (mg/kg)	Endrin Keytone (mg/kg)	Heptachlor Epoxide (mg/kg)	Heptachlor (mg/kg)	Methoxychlor (mg/kg)	Toxaphene (mg/kg)	DF	
<b>Equipment Blanks</b>																										
100-1*	NA	11/4/2016	<0.0157	<0.0151	<0.0133	<0.0119	<0.0180	<0.0154	<0.0140	<0.050	<0.0217	<0.0175	<0.0115	<0.0164	<0.0152	<0.0146	<0.0121	<0.0146	<0.0163	<0.0138	<0.0170	<0.0170	<0.0125	<1.00	1	
100-3*	NA	3/16/2017	<0.0157	<0.0151	<0.0133	<0.0119	<0.0180	<0.0154	<0.0140	<0.050	<0.0217	<0.0175	<0.0115	<0.0164	<0.0152	<0.0146	<0.0121	<0.0146	<0.0163	<0.0138	<0.0170	<0.0170	<0.0125	<1.00	1	
200-2*	NA	3/15/2017	<0.0157	<0.0151	<0.0133	<0.0119	<0.0180	<0.0154	<0.0140	<0.050	<0.0217	<0.0175	<0.0115	<0.0164	<0.0152	<0.0146	<0.0121	<0.0146	<0.0163	<0.0138	<0.0170	<0.0170	<0.0125	<1.00	1	
200-3*	NA	3/20/2017	<0.0157	<0.0151	<0.0133	<0.0119	<0.0180	<0.0154	<0.0140	<0.050	<0.0217	<0.0175	<0.0115	<0.0164	<0.0152	<0.0146	<0.0121	<0.0146	<0.0163	<0.0138	<0.0170	<0.0170	<0.0125	<1.00	1	
200-4*	NA	3/21/2017	<0.0157	<0.0151	<0.0133	<0.0119	<0.0180	<0.0154	<0.0140	<0.050	<0.0217	<0.0175	<0.0115	<0.0164	<0.0152	<0.0146	<0.0121	<0.0146	<0.0163	<0.0138	<0.0170	<0.0170	<0.0125	<1.00	1	
200-6*	NA	3/29/2017	<0.0157	<0.0151	<0.0133	<0.0119	<0.0180	<0.0154	<0.0140	<0.050	<0.0217	<0.0175	<0.0115	<0.0164	<0.0152	<0.0146	<0.0121	<0.0146	<0.0163	<0.0138	<0.0170	<0.0170	<0.0125	<1.00	1	
200-9*	NA	4/4/2017	<0.0157	<0.0151	<0.0133	<0.0119	<0.0180	<0.0154	<0.0140	<0.050	<0.0217	<0.0175	<0.0115	<0.0164	<0.0152	<0.0146	<0.0121	<0.0146	<0.0163	<0.0138	<0.0170	<0.0170	<0.0125	<1.00	1	
<b>Maximum Site Concentration</b>			<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>0.002</b>	<b>0.002</b>	<b>0.019</b>	<b>&lt;0.0002</b>	<b>0.077</b>	<b>0.003</b>	<b>0.002</b>	<b>&lt;0.0002</b>	<b>&lt;0.0002</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>&lt;0.0200</b>	NA	
<b>US EPA RSL (Commercial)</b>			<b>0.033</b>	-	-	-	-	<b>7.7</b>	<b>7.7</b>	<b>7.7</b>	<b>9.6</b>	<b>9.3</b>	<b>8.5</b>	<b>0.140</b>	<b>7,000</b>	<b>7,000</b>	-	<b>250</b>	-	-	-	<b>0.33</b>	<b>0.61</b>	<b>4,100</b>	<b>21.00</b>	NA
<b>DTSC HERO Note 3 (commercial)</b>			-	-	-	-	-	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	

NOTES:

US EPA RSL (residential) = US Environmental Protection Agency Regional Screening Levels for residential land use

DTSC HERO Note 3 = Department of Toxic Substances Control Human and Ecological Risk Office Human Health Risk Assessment Note 3

mg/kg = milligrams per kilogram

<0.0001 = analyte not detected above designated method detection limit

\* = Analytes reported in milligrams per liter (mg/l)

- = Not analyzed

NA = not applicable

DF = Dilution Factor

'd' denotes duplicate samples to distinguish from similar numbers to the primary samples.



Table 4  
Summary of PCBs in Soil  
I-15 SI/ADL Survey  
Riverside County MP 49.8 - 52.3  
San Bernardino County MP 0.0 - 12.2  
Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
and Fontana, California

Sample ID	Depth (feet)	Date	Arochlor 1016 (mg/kg)	Arochlor 1221 (mg/kg)	Arochlor 1232 (mg/kg)	Arochlor 1242 (mg/kg)	Arochlor 1248 (mg/kg)	Arochlor 1254 (mg/kg)	Arochlor 1260 (mg/kg)	DF	
<b>Railroad Abutment Investigation</b>											
RR-1-0.5	0.0-0.5	3/21/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-1-1.0	0.5-1.0	3/21/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-1-2.5	2.0-2.5	3/21/2017	sample lost								
RR-1-5.0	4.5-5.0	3/21/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-2-0.5	0.0-0.5	3/21/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-2-1.0	0.5-1.0	3/21/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-2-2.5	2.0-2.5	3/21/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-2-5.0	4.5-5.0	3/21/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-3-0.5	0.0-0.5	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-3-1.0	0.5-1.0	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-3-2.5	2.0-2.5	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-3-5.0	4.5-5.0	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-4-0.5	0.0-0.5	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-4-1.0	0.5-1.0	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-4-2.5	2.0-2.5	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-4-5.0	4.5-5.0	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-5-0.5	0.0-0.5	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-5-1.0	0.5-1.0	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-5-2.5	2.0-2.5	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-5-5.0	4.5-5.0	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-6-0.5	0.0-0.5	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-6-1.0	0.5-1.0	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-6-2.5	2.0-2.5	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	
RR-6-3.0	2.5-3.0	3/20/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1	

Table 4  
Summary of PCBs in Soil  
I-15 SI/ADL Survey  
Riverside County MP 49.8 - 52.3  
San Bernardino County MP 0.0 - 12.2  
Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
and Fontana, California

Sample ID	Depth (feet)	Date	Arochlor 1016 (mg/kg)	Arochlor 1221 (mg/kg)	Arochlor 1232 (mg/kg)	Arochlor 1242 (mg/kg)	Arochlor 1248 (mg/kg)	Arochlor 1254 (mg/kg)	Arochlor 1260 (mg/kg)	DF
RR-7-0.5	0.0-0.5	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-7-1.0	0.5-1.0	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-7-2.5	2.0-2.5	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-8-0.5	0.0-0.5	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-8-1.0	0.5-1.0	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-8-2.5	2.0-2.5	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-8-3.0	2.5-3.0	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-9-0.5	0.0-0.5	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-9-1.0	0.5-1.0	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-9-2.5	2.0-2.5	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-9-5.0	4.5-5.0	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-10-0.5	0.0-0.5	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-10-1.0	0.5-1.0	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-10-2.5	2.0-2.5	11/4/2016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-11-0.5	0.0-0.5	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-11-1.0	0.5-1.0	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-11a-0.5	0.0-0.5	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-11a-1.0	0.5-1.0	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-12-0.5	0.0-0.5	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-12-1.0	0.5-1.0	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-12-2.5	2.0-2.5	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-12a-0.5	0.0-0.5	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-13-0.5	0.0-0.5	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-13-1.0	0.5-1.0	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-13-2.5	2.0-2.5	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-13a-0.5	0.0-0.5	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1

Table 4  
 Summary of PCBs in Soil  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
 and Fontana, California

Sample ID	Depth (feet)	Date	Arochlor 1016 (mg/kg)	Arochlor 1221 (mg/kg)	Arochlor 1232 (mg/kg)	Arochlor 1242 (mg/kg)	Arochlor 1248 (mg/kg)	Arochlor 1254 (mg/kg)	Arochlor 1260 (mg/kg)	DF
RR-14-0.5	0.0-0.5	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-14-1.0	0.5-1.0	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-14a-0.5	0.0-0.5	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-14a-1.0	0.5-1.0	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
<b>Etiwanda Disposal Site Investigation</b>										
EB-1-0.5	0.0-0.5	3/27/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
EB-1-1.0	0.5-1.0	3/27/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
EB-1-2.5	2.0-2.5	3/27/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
EB-1-5.0	4.5-5.0	3/27/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
EB-2-0.5	0.0-0.5	3/27/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
EB-2-1.0	0.5-1.0	3/27/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
EB-2-2.5	2.0-2.5	3/27/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
EB-2-5.0	4.5-5.0	3/27/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
<b>QA/QC Field Duplicates</b>										
EB-101-0.5	0.0-0.5	3/27/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
EB-101-1.0	0.5-1.0	3/27/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
EB-101-2.5	2.0-2.5	3/27/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
EB-101-5.0	4.5-5.0	3/27/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-112-0.5	0.0-0.5	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-112-1.0	0.5-1.0	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-112-2.5	2.0-2.5	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
RR-112a-0.5	0.0-0.5	3/29/2017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1

Table 4  
 Summary of PCBs in Soil  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
 and Fontana, California

Sample ID	Depth (feet)	Date	Arochlor 1016 (mg/kg)	Arochlor 1221 (mg/kg)	Arochlor 1232 (mg/kg)	Arochlor 1242 (mg/kg)	Arochlor 1248 (mg/kg)	Arochlor 1254 (mg/kg)	Arochlor 1260 (mg/kg)	DF
<b>Equipment Blanks</b>										
100-1*	NA	11/4/2016	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1
200-4*	NA	3/21/2017	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1
200-6*	NA	3/29/2017	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1
<b>Maximum Site Concentration</b>			<b>&lt;0.0050</b>	<b>&lt;0.0050</b>	<b>&lt;0.0050</b>	<b>&lt;0.0050</b>	<b>&lt;0.0050</b>	<b>&lt;0.0050</b>	<b>&lt;0.0050</b>	NA
<b>US EPA RSL (commercial)</b>			<b>2.6</b>	<b>0.83</b>	<b>0.72</b>	<b>0.95</b>	<b>0.95</b>	<b>0.97</b>	<b>0.99</b>	NA
<b>DTSC HERO Note 3</b>			-	-	-	-	-	-	-	NA

Notes:

US EPA RSL (residential) = US Environmental Protection Agency Regional Screening Levels for residential land use

DTSC HERO Note 3 = Department of Toxic Substances Control Human and Ecological Risk Office Human Health Risk Assessment Note 3

mg/kg = milligrams per kilogram

<0.0001 = analyte not detected above designated method detection limit

\* = Analytes reported in milligrams per liter (mg/l)

- = Not analyzed

NA = not applicable

DF = Dilution Factor

Table 5  
Summary of TPH in Soil  
I-15 SI/ADL Survey  
Riverside County MP 49.8 - 52.3  
San Bernardino County MP 0.0 - 12.2  
Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
and Fontana, California

Sample ID	Depth (feet)	Date	C4 - C-10 (mg/kg)	C11 - C22 (mg/kg)	C23-C35 (mg/kg)	DF
<b>Railroad Abutment Investigation</b>						
RR-1-0.5	0.0-0.5	3/21/2017	<5	<5	<25	1
RR-1-1.0	0.5-1.0	3/21/2017	<5	<5	<25	1
RR-1-2.5	2.0-2.5	3/21/2017	sample lost			
RR-1-5.0	4.5-5.0	3/21/2017	<5	<5	<25	1
RR-2-0.5	0.0-0.5	3/21/2017	<5	<5	<25	1
RR-2-1.0	0.5-1.0	3/21/2017	<5	<5	<25	1
RR-2-2.5	2.0-2.5	3/21/2017	<5	<5	<25	1
RR-2-5.0	4.5-5.0	3/21/2017	<5	<5	<25	1
RR-3-0.5	0.0-0.5	3/20/2017	<5	<5	<25	1
RR-3-1.0	0.5-1.0	3/20/2017	<5	<5	<25	1
RR-3-2.5	2.0-2.5	3/20/2017	<5	<5	<25	1
RR-4-0.5	0.0-0.5	3/20/2017	<5	<5	<25	1
RR-4-1.0	0.5-1.0	3/20/2017	<5	<5	<25	1
RR-4-2.5	2.0-2.5	3/20/2017	<5	<5	<25	1
RR-4-5.0	4.5-5.0	3/20/2017	<5	<5	<25	1
RR-5-0.5	0.0-0.5	3/20/2017	<5	<5	<25	1
RR-5-1.0	0.5-1.0	3/20/2017	<5	<5	<25	1
RR-5-2.5	2.0-2.5	3/20/2017	<5	<5	<25	1
RR-5-5.0	4.5-5.0	3/20/2017	<5	<5	<25	1
RR-6-0.5	0.0-0.5	3/20/2017	<5	<5	<25	1
RR-6-1.0	0.5-1.0	3/20/2017	<5	<5	<25	1
RR-6-2.5	2.0-2.5	3/20/2017	<5	<5	<25	1
RR-6-3.0	2.5-3.0	3/20/2017	<5	<5	<25	1
RR-7-0.5	0.0-0.5	11/4/2016	<5	<b>5.46J</b>	<25	1
RR-7-1.0	0.5-1.0	11/4/2016	<5	<b>5.97J</b>	<b>68.6</b>	1
RR-7-2.5	2.0-2.5	11/4/2016	<5	<b>5.73J</b>	<25	1
RR-8-0.5	0.0-0.5	11/4/2016	<5	<b>6.05J</b>	<25	1
RR-8-1.0	0.5-1.0	11/4/2016	<5	<b>5.45J</b>	<25	1
RR-8-2.5	2.0-2.5	11/4/2016	<5	<b>6.09J</b>	<b>27.7J</b>	1
RR-8-3.0	2.5-3.0	11/4/2016	<5	<b>5.67J</b>	<b>26.7J</b>	1
RR-9-0.5	0.0-0.5	11/4/2016	<5	<b>6.62J</b>	<25	1
RR-9-1.0	0.5-1.0	11/4/2016	<5	<b>5.54J</b>	<25	1
RR-9-2.5	2.0-2.5	11/4/2016	<5	<b>5.77J</b>	<25	1
RR-9-5.0	4.5-5.0	11/4/2016	<5	<b>5.43J</b>	<25	1

Table 5  
Summary of TPH in Soil  
I-15 SI/ADL Survey  
Riverside County MP 49.8 - 52.3  
San Bernardino County MP 0.0 - 12.2  
Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
and Fontana, California

Sample ID	Depth (feet)	Date	C4 - C-10 (mg/kg)	C11 - C22 (mg/kg)	C23-C35 (mg/kg)	DF
RR-10-0.5	0.0-0.5	11/4/2016	<5	7.23J	39.7J	1
RR-10-1.0	0.5-1.0	11/4/2016	<5	5.99J	<25	1
RR-10-2.5	2.0-2.5	11/4/2016	<5	5.64J	<25	1
RR-11-0.5	0.0-0.5	3/29/2017	<5	<5	<25	1
RR-11-1.0	0.5-1.0	3/29/2017	<5	<5	52.2	1
RR-11a-0.5	0.0-0.5	3/29/2017	<5	<5	66.3	1
RR-11a-1.0	0.5-1.0	3/29/2017	<5	<5	<25	1
RR-12-0.5	0.0-0.5	3/29/2017	<5	<5	<25	1
RR-12-1.0	0.5-1.0	3/29/2017	<5	<5	<25	1
RR-12-2.5	2.0-2.5	3/29/2017	<5	<5	<25	1
RR-12a-0.5	0.0-0.5	3/29/2017	<5	<5	<25	1
RR-13-0.5	0.0-0.5	3/29/2017	<5	<5	<25	1
RR-13-1.0	0.5-1.0	3/29/2017	<5	<5	<25	1
RR-13-2.5	2.0-2.5	3/29/2017	<5	<5	<25	1
RR-13a-0.5	0.0-0.5	3/29/2017	<5	<5	82.5	1
RR-14-0.5	0.0-0.5	3/29/2017	<5	<5	<25	1
RR-14-1.0	0.5-1.0	3/29/2017	<5	<5	<25	1
RR-14a-0.5	0.0-0.5	3/29/2017	<5	<5	<25	1
RR-14a-1.0	0.5-1.0	3/29/2017	<5	<5	<25	1
<b>Etiwanda Disposal Site Investigation</b>						
EB-1-0.5	0.0-0.5	3/27/2017	<5	<5	<25	1
EB-1-1.0	0.5-1.0	3/27/2017	<5	<5	<25	1
EB-1-2.5	2.0-2.5	3/27/2017	<5	<5	<25	1
EB-1-5.0	4.5-5.0	3/27/2017	<5	<5	<25	1
EB-2-0.5	0.0-0.5	3/27/2017	20.1	53.3	360	1
EB-2-1.0	0.5-1.0	3/27/2017	<25	<25	1,110	5
EB-2-2.5	2.0-2.5	3/27/2017	<5	<5	113	1
EB-2-5.0	4.5-5.0	3/27/2017	<5	<5	<25	1
<b>QA/QC Field Duplicates</b>						
EB-101-0.5	0.0-0.5	3/27/2017	<5	<5	<25	1
EB-101-1.0	0.5-1.0	3/27/2017	<5	<5	<25	1
EB-101-2.5	2.0-2.5	3/27/2017	<5	<5	<25	1
EB-101-5.0	4.5-5.0	3/27/2017	<5	<5	<25	1
RR-112-0.5	0.0-0.5	3/29/2017	<5	<5	<25	1
RR-112-1.0	0.5-1.0	3/29/2017	<5	<5	<25	1

Table 5  
 Summary of TPH in Soil  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
 and Fontana, California

Sample ID	Depth (feet)	Date	C4 - C-10 (mg/kg)	C11 - C22 (mg/kg)	C23-C35 (mg/kg)	DF
RR-112-2.5	2.0-2.5	3/29/2017	<5	<5	<25	1
100-1*	NA	11/4/2016	<0.250	<0.250	<2.5	1
100-7*	NA	3/27/2017	<0.250	<0.250	<2.5	1
200-3*	NA	3/20/2017	<0.250	<0.250	<2.5	1
200-4*	NA	3/21/2017	<0.250	<0.250	<2.5	1
200-6*	NA	3/29/2017	<0.250	<0.250	<2.5	1
<b>Maximum Site Concentration</b>			<b>20.1</b>	<b>53.3</b>	<b>1,110</b>	-
<b>US EPA RSL (aromatic commercial)</b>			<b>420</b>	<b>600</b>	<b>33,000</b>	
<b>US EPA RSL (aliphatic commercial)</b>			<b>2,200</b>	<b>440</b>	<b>3,500,000</b>	-

US EPA RSL (residential) = US Environmental Protection Agency Regional Screening Levels for residential land use

mg/kg = milligrams per kilogram

<5 = analyte not detected above designated method detection limit

\* = Analytes reported in milligrams per liter (mg/l)

- = Not analyzed

NA = not applicable

C4 - C10 = Gasoline Range Organic Compounds

C11 - C22 = Diesel Range Organic Compounds

C23 - C35 = Oil Range Organic Compounds





Table 6  
 Summary of PAHs in Soil  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
 and Fontana, California

Sample ID	Depth (feet)	Date	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo (a) pyrene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (g,h,i) perylene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	Naphthalene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)	DF
RR-13-0.5	0.0-0.5	3/29/2017	<0.010	<0.010	<0.010	0.0344	0.0929	0.0408	0.0657	0.0256	0.0451	<0.010	0.0245	<0.010	0.0898	<0.010	<0.010	0.0222	1
RR-13-1.0	0.5-1.0	3/29/2017	<0.010	<0.010	<0.010	0.0124J	0.0256	0.0165J	0.0105J	0.0109J	0.0117J	<0.010	0.0100J	<0.010	0.0252	<0.010	<0.010	0.0111J	1
RR-13-2.5	2.0-2.5	3/29/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
RR-13a-0.5	0.0-0.5	3/29/2017	<0.010	<0.010	<0.010	0.0308	0.0346	0.0758	0.0685	0.0295	0.0272	<0.010	0.0388	<0.010	0.0695	<0.010	0.0216	0.0376	1
RR-14-0.5	0.0-0.5	3/29/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
RR-14-1.0	0.5-1.0	3/29/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
RR-14a-0.5	0.0-0.5	3/29/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
RR-14a-1.0	0.5-1.0	3/29/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
<b>Etiwanda Disposal Site Investigation</b>																			
EB-1-0.5	0.0-0.5	3/27/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
EB-1-1.0	0.5-1.0	3/27/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
EB-1-2.5	2.0-2.5	3/27/2017	<0.010	<0.010	<0.010	<0.010	0.0137J	<0.010	0.0166J	<0.010	<0.010	<0.010	0.0129J	<0.010	<0.010	<0.010	0.0180J	0.0135J	1
EB-1-5.0	4.5-5.0	3/27/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
EB-2-0.5	0.0-0.5	3/27/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
EB-2-1.0	0.5-1.0	3/27/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
EB-2-2.5	2.0-2.5	3/27/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
EB-2-5.0	4.5-5.0	3/27/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
<b>QA/QC Field Duplicates</b>																			
EB-101-0.5	0.0-0.5	3/27/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
EB-101-1.0	0.5-1.0	3/27/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
EB-101-2.5	2.0-2.5	3/27/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
EB-101-5.0	4.5-5.0	3/27/2017	<0.010	<0.010	<0.010	0.0236	0.0260	0.0212	<0.010	0.0126J	0.0127J	<0.010	0.0361	<0.010	0.0172J	<0.010	0.0186J	0.0263	1
RR-112-0.5	0.0-0.5	3/29/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
RR-112-1.0	0.5-1.0	3/29/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
RR-112-2.5	2.0-2.5	3/29/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
RR-112a-0.5	0.0-0.5	3/29/2017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1
<b>Equipment Blanks</b>																			
100-1*	NA	11/4/2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1
100-7*	NA	3/27/2017	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1
200-3*	NA	3/20/2017	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1
200-4*	NA	3/21/2017	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1
200-6*	NA	3/29/2017	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1
<b>Maximum Site Concentration</b>			0.0280	<0.0001	0.0241	0.159	0.413	0.232	0.325	0.179	0.285	<0.0005	0.129	0.0255	0.360	<0.010	0.0477	0.204	NA
<b>US EPA RSL (commercial)</b>			45,000	NE	230,000	29	0.29	2.9	NE	29	290	0.29	3,000	3,000	2.9	17	NE	23,000	NA

Notes:  
 US EPA RSL (residential) = US Environmental Protection Agency Regional Screening Levels for residential land use  
 mg/kg = milligrams per kilogram  
 <0.010 = analyte not detected above designated method detection limit  
 \* = Analytes reported in milligrams per liter (mg/l)  
 - = Not analyzed  
 DF = Dilution factor  
 NA = Not applicable  
 NE = None established

Table 7  
 Summary of Title 22 Metals in Soil  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
 and Fontana, California

Sample ID	Depth (feet)	Sample Date	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Total Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)	DF
<b>Former Agricultural Site Investigation</b>																				
AL-03-0.5	0.0 - 0.5	3/20/2017	-	<b>0.303</b>	-	-	-	-	-	-	<b>6.16</b>	-	-	-	-	-	-	-	-	1
AL-03-1.0	0.5 - 1.0	3/20/2017	-	<b>0.579</b>	-	-	-	-	-	-	<b>6.78</b>	-	-	-	-	-	-	-	-	1
AL-03-2.5	2.0 - 2.5	3/20/2017	-	<b>1.58</b>	-	-	-	-	-	-	<b>2.89</b>	-	-	-	-	-	-	-	-	1
AL-03-5.0	4.5 - 5.0	3/20/2017	-	<b>0.477</b>	-	-	-	-	-	-	<b>1.89</b>	-	-	-	-	-	-	-	-	1
AL-12-0.5	0.0 - 0.5	3/14/2017	-	<b>1.84</b>	-	-	-	-	-	-	<b>7.64</b>	-	-	-	-	-	-	-	-	1
AL-12-1.0	0.5 - 1.0	3/14/2017	-	<b>0.843</b>	-	-	-	-	-	-	<b>2.20</b>	-	-	-	-	-	-	-	-	1
AL-12-2.5	2.0 - 2.5	3/14/2017	-	<b>0.969</b>	-	-	-	-	-	-	<b>3.41</b>	-	-	-	-	-	-	-	-	1
AL-12-5.0	4.5 - 5.0	3/14/2017	-	<b>0.527</b>	-	-	-	-	-	-	<b>3.18</b>	-	-	-	-	-	-	-	-	1
AL-25-0.5	0.0 - 0.5	3/16/2017	-	<b>0.550</b>	-	-	-	-	-	-	<b>3.61</b>	-	-	-	-	-	-	-	-	1
AL-25-1.0	0.5 - 1.0	3/16/2017	-	<b>0.444</b>	-	-	-	-	-	-	<b>3.35</b>	-	-	-	-	-	-	-	-	1
AL-25-2.5	2.0 - 2.5	3/16/2017	-	<b>0.729</b>	-	-	-	-	-	-	<b>4.76</b>	-	-	-	-	-	-	-	-	1
AL-25-5.0	4.5 - 5.0	3/16/2017	-	<b>0.381</b>	-	-	-	-	-	-	<b>2.72</b>	-	-	-	-	-	-	-	-	1
AL-42-0.5	0.0 - 0.5	3/15/2017	-	<b>6.05</b>	-	-	-	-	-	-	<b>25.8</b>	-	-	-	-	-	-	-	-	1
AL-42-1.0	0.5 - 1.0	3/15/2017	-	<b>10.6</b>	-	-	-	-	-	-	<b>6.61</b>	-	-	-	-	-	-	-	-	1
AL-42-2.5	2.0 - 2.5	3/15/2017	-	<b>6.82</b>	-	-	-	-	-	-	<b>5.79</b>	-	-	-	-	-	-	-	-	1
AL-42-5.0	4.5 - 5.0	3/15/2017	-	<b>5.61</b>	-	-	-	-	-	-	<b>5.60</b>	-	-	-	-	-	-	-	-	1
AL-48-0.5	0.0 - 0.5	3/15/2017	-	<b>9.37</b>	-	-	-	-	-	-	<b>6.66</b>	-	-	-	-	-	-	-	-	1
AL-48-1.0	0.5 - 1.0	3/15/2017	-	<b>7.92</b>	-	-	-	-	-	-	<b>6.66</b>	-	-	-	-	-	-	-	-	1
AL-48-2.5	2.0 - 2.5	3/15/2017	-	<b>6.84</b>	-	-	-	-	-	-	<b>5.05</b>	-	-	-	-	-	-	-	-	1
AL-48-5.0	4.5 - 5.0	3/15/2017	-	<b>8.77</b>	-	-	-	-	-	-	<b>8.12</b>	-	-	-	-	-	-	-	-	1
AL-52-0.5	0.0 - 0.5	4/4/2017	-	<b>2.53</b>	-	-	-	-	-	-	<b>6.50</b>	-	-	-	-	-	-	-	-	1
AL-52-1.0	0.5 - 1.0	4/4/2017	-	<b>1.24</b>	-	-	-	-	-	-	<b>4.92</b>	-	-	-	-	-	-	-	-	1
AL-52a-0.5	0.0 - 0.5	4/4/2017	-	<b>2.21</b>	-	-	-	-	-	-	<b>5.56</b>	-	-	-	-	-	-	-	-	1
AL-52a-1.0	0.5 - 1.0	4/4/2017	-	<b>0.889</b>	-	-	-	-	-	-	<b>2.80</b>	-	-	-	-	-	-	-	-	1
AL-81-0.5	0.0 - 0.5	3/21/2017	-	<b>1.06</b>	-	-	-	-	-	-	<b>3.24</b>	-	-	-	-	-	-	-	-	1
AL-81-1.0	0.5 - 1.0	3/21/2017	-	<b>0.831</b>	-	-	-	-	-	-	<b>1.98</b>	-	-	-	-	-	-	-	-	1
AL-81-2.5	2.0 - 2.5	3/21/2017	-	<b>0.681</b>	-	-	-	-	-	-	<b>1.07</b>	-	-	-	-	-	-	-	-	1
AL-81-3.0	2.5 - 3.0	3/21/2017	-	<b>0.870</b>	-	-	-	-	-	-	<b>2.54</b>	-	-	-	-	-	-	-	-	1
AL-109-0.5	0.0 - 0.5	3/28/2017	-	<b>1.39</b>	-	-	-	-	-	-	<b>8.75</b>	-	-	-	-	-	-	-	-	1
AL-109-1.0	0.5 - 1.0	3/28/2017	-	<b>0.908</b>	-	-	-	-	-	-	<b>7.40</b>	-	-	-	-	-	-	-	-	1
AL-109-2.5	2.0 - 2.5	3/28/2017	-	<b>0.846</b>	-	-	-	-	-	-	<b>5.48</b>	-	-	-	-	-	-	-	-	1
AL-109a-0.5	0.0 - 0.5	3/28/2017	-	<b>&lt;0.248</b>	-	-	-	-	-	-	<b>11.9</b>	-	-	-	-	-	-	-	-	1





Table 7  
 Summary of Title 22 Metals in Soil  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
 and Fontana, California

Sample ID	Depth (feet)	Sample Date	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Total Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)	DF
<b>Equipment Blanks</b>																				
100-1*	NA	11/4/2017	<0.005	<0.005	<0.003	<0.004	<0.002	<0.003	<0.004	<0.004	<0.004	<0.0002	<0.005	<0.003	<0.005	<0.008	<0.009	<0.003	<0.003	1
100-2*	NA																			1
100-3*	NA	3/16/2017	-	<0.005	-	-	-	-	-	-	<0.004	-	-	-	-	-	-	-	-	1
100-4*	NA	3/20/2017	-	-	-	-	-	-	-	-	<0.004	-	-	-	-	-	-	-	-	1
100-7*	NA	3/27/2017	<0.005	<0.005	<0.003	<0.004	<0.002	<0.003	0.028	<0.004	<0.004	<0.0002	<0.005	<0.003	<0.005	<0.008	<0.009	<0.003	0.047	1
200-2*	NA	3/15/2017	-	<0.005	-	-	-	-	-	-	<0.004	-	-	-	-	-	-	-	-	1
200-3*	NA	3/16/2017	-	-	-	-	-	-	-	-	<0.004	-	-	-	-	-	-	-	-	1
200-3*	NA	3/20/2017	<0.005	<0.005	<0.003	<0.004	<0.002	<0.003	<0.004	<b>0.034</b>	<0.004	<0.0002	<0.005	<0.003	<0.005	<0.008	<0.009	<0.003	<b>0.046</b>	1
200-4*	NA	3/21/2017	<0.005	<0.005	<0.003	<0.004	<0.002	<0.003	<0.004	<b>0.260</b>	<0.004	<0.0002	<0.005	<0.003	<0.005	<0.008	<0.009	<0.003	<b>0.075</b>	1
200-6*	NA	3/29/2017	<0.005	<0.005	<0.003	<0.004	<0.002	<0.003	<0.004	<b>0.223</b>	<0.004	<0.0002	<0.005	<0.003	<0.005	<0.008	<0.009	<0.003	<b>0.087</b>	1
200-9*	NA	4/4/2017	-	<0.005	-	-	-	-	-	-	<0.004	-	-	-	-	-	-	-	-	1
<b>Maximum Site Concentration</b>			<b>&lt;0.250</b>	<b>41.8</b>	<b>176</b>	<b>&lt;0.180</b>	<b>0.616</b>	<b>49.3</b>	<b>11.0</b>	<b>66.4</b>	<b>130</b>	<b>0.038</b>	<b>&lt;0.274</b>	<b>18.4</b>	<b>&lt;0.234</b>	<b>&lt;0.414</b>	<b>&lt;0.432</b>	<b>59.1</b>	<b>210</b>	NA
<b>US EPA RSLs (commercial)</b>			<b>470</b>	<b>3.00</b>	<b>220,000</b>	<b>2,300</b>	<b>980</b>	<b>1,800,000</b>	<b>350</b>	<b>47,000</b>	<b>800</b>	<b>46</b>	<b>5,800</b>	<b>22,000</b>	<b>5,800</b>	<b>5,800</b>	<b>12</b>	<b>5,800</b>	<b>350,000</b>	NA
<b>DTSC HERO Note 3</b>			NE	<b>0.36</b>	NE	<b>210</b>	<b>7.3</b>	<b>170,000</b>	NE	NE	<b>320</b>	<b>4.5</b>	NE	<b>3,100</b>	NE	<b>1,500</b>	NE	<b>1,000</b>	NE	NA
<b>DTSC Background Arsenic Concentration</b>			-	<b>12</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA

NOTES:

Bolded analytical results are above the method detection limits

US EPA RSL (residential) = US Environmental Protection Agency Regional Screening Levels for residential land use

DTSC HERO Note 3 = Department of Toxic Substances Control Human and Ecological Risk Office Human Health Risk Assessment Note 3

J = Trace concentration between method detection limit and laboratory reporting limit

mg/kg = milligrams per kilogram

<0.274 = analyte not detected above designated method detection limit

\* = Analytes reported in milligrams per liter

DF = Dilution Factor

- = Not Analyzed

NE = None Established

NA = Not Applicable

"d" denotes duplicate samples to distinguish from similar numbers to the primary samples.

= sample result above screening levels

Table 8  
 Summary Relative Percent Differences  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
 and Fontana, California

<b>Sample ID</b>	<b>Primary Sample (mg/kg)</b>	<b>Duplicate Sample (mg/kg)</b>	<b>RPD</b>
ADL Investigation (TTLC Lead)			
AL-12-0.5	7.64	4.14	59.4
AL-12-1.0	2.20	4.52	69.0
AL-12-2.5	3.41	2.50	30.8
AL-12-5.0	3.18	4.14	26.2
AL-17-0.5	3.83	1.61	81.6
AL-17-1.0	3.81	1.82	70.7
AL-17-2.5	2.28	1.79	24.1
AL-17a-0.5	2.45	1.79	31.1
AL-28-0.5	11.2	12.4	10.2
AL-28-1.0	12.4	8.89	33.0
AL-28-2.5	2.77	75.2	185.8
AL-28-5.0	2.32	2.17	6.7
AL-40-0.5	6.84	4.64	38.3
AL-40-1.0	1.79	5.96	107.6
AL-40-2.5	5.36	4.77	11.6
AL-40-5.0	6.29	7.31	15.0
AL-52-0.5	6.50	5.91	9.5
AL-52-1.0	4.92	3.39	36.8
AL-52a-0.5	5.56	4.58	19.3
AL-52a-1.0	2.80	3.42	19.9
AL-53-0.5	5.70	4.16	31.2
AL-53-1.0	6.16	5.91	4.1
AL-53-2.5	2.69	6.32	80.6
AL-53-5.0	3.03	2.90	4.4
AL-65-0.5	8.03	4.55	55.3
AL-65-1.0	6.66	5.48	19.4
AL-65-2.5	95.10	74.80	23.9
AL-65-5.0	36.70	10.80	109.1
AL-120-0.5	3.76	5.13	30.8
AL-120-1.0	1.74	3.12	56.8
AL-120-2.5	ND	1.84	NA
AL-120-5.0	1.11	1.52	31.2
AL-127-0.5	24.2	13.0	60.2
AL-127-1.0	32.0	10.7	99.8
AL-127a-0.5	38.1	12.0	104.2

Table 8  
 Summary Relative Percent Differences  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
 and Fontana, California

<b>Sample ID</b>	<b>Primary Sample (mg/kg)</b>	<b>Duplicate Sample (mg/kg)</b>	<b>RPD</b>
AL-127a-1.0	<b>13.6</b>	<b>19.5</b>	<b>35.6</b>
ADL Investigation (WET-CA Lead)			
AL-12-1.0	<b>0.426</b>	<b>0.212</b>	<b>67.1</b>
AL-12-1.0	ND	<b>0.123</b>	NA
AL-12-2.5	ND	ND	NA
AL-12-5.0	ND	ND	NA
AL-52-0.5	<b>0.139</b>	<b>0.177</b>	NA
AL-52-1.0	ND	ND	NA
AL-52a-0.5	<b>0.084</b>	<b>0.086</b>	<b>2.4</b>
AL-52a-1.0	ND	ND	NA
AL-65-0.5	<b>0.262</b>	ND	NA
AL-65-1.0	<b>0.557</b>	<b>0.557</b>	<b>0.0</b>
AL-65-2.5	<b>7.33</b>	<b>7.33</b>	<b>0.0</b>
AL-127-0.5	<b>0.283</b>	<b>0.497</b>	<b>54.9</b>
AL-127-1.0	<b>1.09</b>	<b>0.583</b>	<b>60.6</b>
AL-127a-0.5	<b>1.20</b>	<b>0.469</b>	<b>87.6</b>
AL-127a-1.0	<b>0.412</b>	<b>0.723</b>	<b>54.8</b>
Former Agricultural Investigation (OCPs)			
AL-12-0.5	<b>0.007</b>	<b>0.041</b>	<b>141.7</b>
AL-12-1.0	<b>0.008</b>	<b>0.005</b>	<b>46.2</b>
AL-12-2.5	ND	ND	NA
AL-12-5.0	ND	ND	NA
AL-52-0.5	ND	ND	NA
AL-52-1.0	ND	ND	NA
AL-52a-0.5	ND	ND	NA
AL-52a-1.0	ND	ND	NA
Former Agricultural Investigation (Arsenic)			
AL-12-0.5	<b>1.84</b>	<b>0.827</b>	<b>76.0</b>
AL-12-1.0	<b>0.843</b>	<b>1.10</b>	<b>26.5</b>
AL-12-2.5	<b>0.969</b>	<b>0.670</b>	<b>36.5</b>
AL-12-5.0	<b>0.527</b>	<b>0.827</b>	<b>44.3</b>
AL-52-0.5	<b>2.53</b>	<b>2.11</b>	<b>18.1</b>
AL-52-1.0	<b>1.24</b>	<b>0.887</b>	<b>33.2</b>
AL-52a-0.5	<b>2.21</b>	<b>2.08</b>	<b>6.1</b>
AL-52a-1.0	<b>0.889</b>	<b>0.976</b>	<b>9.3</b>

Table 8  
 Summary Relative Percent Differences  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
 and Fontana, California

Sample ID	Primary Sample (mg/kg)	Duplicate Sample (mg/kg)	RPD
Railroad Investigation (OCPs)			
RR-12-0.5	ND	ND	NA
RR-12-1.0	ND	ND	NA
RR-12-2.5	ND	ND	NA
RR-12a-0.5	ND	ND	NA
Railroad Investigation (PCBs)			
RR-12-0.5	ND	ND	NA
RR-12-1.0	ND	ND	NA
RR-12-2.5	ND	ND	NA
RR-12a-0.5	ND	ND	NA
Railroad Investigation (TPH)			
RR-12-0.5	ND	ND	NA
RR-12-1.0	ND	ND	NA
RR-12-2.5	ND	ND	NA
RR-12a-0.5	ND	ND	NA
Railroad Investigation (PAHs)			
RR-12-0.5	ND	ND	NA
RR-12-1.0	ND	ND	NA
RR-12-2.5	ND	ND	NA
RR-12a-0.5	ND	ND	NA
Railroad Investigation (Metals)			
RR-12-0.5	<b>6.90</b>	<b>6.76</b>	<b>2.0</b>
RR-12-0.5	<b>137</b>	<b>139</b>	<b>1.4</b>
RR-12-0.5	<b>18.1</b>	<b>18.8</b>	<b>3.8</b>
RR-12-0.5	<b>9.53</b>	<b>9.22</b>	<b>3.3</b>
RR-12-0.5	<b>15.1</b>	<b>14.9</b>	<b>1.3</b>
RR-12-0.5	<b>9.34</b>	<b>6.60</b>	<b>34.4</b>
RR-12-0.5	<b>7.14</b>	<b>8.36</b>	<b>15.7</b>
RR-12-0.5	<b>58.4</b>	<b>56.5</b>	<b>3.3</b>
RR-12-0.5	<b>57.9</b>	<b>49.3</b>	<b>16.0</b>
RR-12-1.0	<b>8.08</b>	<b>7.86</b>	<b>15.7</b>
RR-12-1.0	<b>163</b>	<b>158</b>	<b>3.3</b>
RR-12-1.0	<b>19.4</b>	<b>17.9</b>	<b>16.0</b>
RR-12-1.0	<b>9.67</b>	<b>9.10</b>	<b>2.8</b>
RR-12-1.0	<b>14.7</b>	<b>13.9</b>	<b>3.1</b>
RR-12-1.0	<b>6.08</b>	<b>4.86</b>	<b>8.0</b>



Table 8  
 Summary Relative Percent Differences  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
 and Fontana, California

Sample ID	Primary Sample (mg/kg)	Duplicate Sample (mg/kg)	RPD
RR-12-1.0	7.22	7.13	6.1
RR-12-1.0	56.2	56.7	5.6
RR-12-1.0	55.4	50.0	22.3
RR-12-2.5	25.7	34.6	1.3
RR-12-2.5	131	130	0.9
RR-12-2.5	17.4	18.2	10.2
RR-12-2.5	7.68	8.69	29.5
RR-12-2.5	10.2	13.7	0.8
RR-12-2.5	3.98	3.21	4.5
RR-12-2.5	4.47	8.29	12.3
RR-12-2.5	45.7	50.2	29.3
RR-12-2.5	44.2	44.4	21.4
RR-12a-0.5	6.20	4.84	59.9
RR-12a-0.5	162	132	9.4
RR-12a-0.5	20.6	17.3	0.5
RR-12a-0.5	9.62	8.53	24.6
RR-12a-0.5	18.2	14.2	20.4
RR-12a-0.5	5.31	8.47	17.4
RR-12a-0.5	10.4	7.96	12.0
RR-12a-0.5	57.9	53.1	24.7
RR-12a-0.5	54.6	56.0	45.9
Etiwanda Disposal Site Investigation (PCBs)			
EB-1-0.5	ND	ND	NA
EB-1-1.0	ND	ND	NA
EB-1-2.5	ND	ND	NA
EB-1-5.0	ND	ND	NA
Etiwanda Disposal Site Investigation (TPH)			
EB-1-0.5	ND	ND	NA
EB-1-1.0	ND	ND	NA
EB-1-2.5	ND	ND	NA
EB-1-5.0	ND	ND	NA
Etiwanda Disposal Site Investigation (PAHs)			
EB-1-0.5	ND	ND	NA
EB-1-1.0	ND	ND	NA
EB-1-2.5	0.0137J	ND	NA
EB-1-2.5	0.0166J	ND	NA

Table 8  
 Summary Relative Percent Differences  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
 and Fontana, California

<b>Sample ID</b>	<b>Primary Sample (mg/kg)</b>	<b>Duplicate Sample (mg/kg)</b>	<b>RPD</b>
EB-1-2.5	<b>0.0129J</b>	ND	NA
EB-1-2.5	<b>0.0180J</b>	ND	NA
EB-1-2.5	<b>0.0135J</b>	ND	NA
EB-1-5.0	<b>ND</b>	ND	NA
<b>Etiwanda Disposal Site Investigation (Metals)</b>			
EB-1-0.5	<b>0.692</b>	<b>0.607</b>	<b>13.1</b>
EB-1-0.5	<b>157</b>	<b>160</b>	<b>1.9</b>
EB-1-0.5	<b>16.8</b>	<b>26.2</b>	<b>43.7</b>
EB-1-0.5	<b>8.17</b>	<b>8.74</b>	<b>6.7</b>
EB-1-0.5	<b>13.4</b>	<b>13.8</b>	<b>2.9</b>
EB-1-0.5	<b>2.15</b>	<b>2.25</b>	<b>4.5</b>
EB-1-0.5	<b>0.012</b>	<b>0.012</b>	<b>0.0</b>
EB-1-0.5	<b>6.41</b>	<b>9.37</b>	<b>37.5</b>
EB-1-0.5	<b>51.5</b>	<b>51.2</b>	<b>0.6</b>
EB-1-0.5	<b>47.9</b>	<b>52.0</b>	<b>8.2</b>
EB-1-1.0	<b>0.741</b>	<b>0.516</b>	<b>35.8</b>
EB-1-1.0	<b>145</b>	<b>135</b>	<b>7.1</b>
EB-1-1.0	<b>14.6</b>	<b>13.9</b>	<b>4.9</b>
EB-1-1.0	<b>7.90</b>	<b>8.42</b>	<b>6.4</b>
EB-1-1.0	<b>11.9</b>	<b>11.5</b>	<b>3.4</b>
EB-1-1.0	<b>1.25</b>	<b>1.71</b>	<b>31.1</b>
EB-1-1.0	<b>0.014</b>	<b>0.016</b>	<b>13.3</b>
EB-1-1.0	<b>7.09</b>	<b>5.76</b>	<b>20.7</b>
EB-1-1.0	<b>48.3</b>	<b>48.0</b>	<b>0.6</b>
EB-1-1.0	<b>39.0</b>	<b>39.7</b>	<b>1.8</b>
EB-1-2.5	<b>3.07</b>	<b>1.26</b>	<b>83.6</b>
EB-1-2.5	<b>152</b>	<b>129</b>	<b>16.4</b>
EB-1-2.5	<b>14.4</b>	<b>22.4</b>	<b>43.5</b>
EB-1-2.5	<b>7.68</b>	<b>7.91</b>	<b>3.0</b>
EB-1-2.5	<b>14.4</b>	<b>41.8</b>	<b>97.5</b>
EB-1-2.5	<b>130</b>	<b>12.9</b>	<b>163.9</b>
EB-1-2.5	<b>0.024</b>	<b>0.014</b>	<b>52.6</b>
EB-1-2.5	<b>6.15</b>	<b>14.4</b>	<b>80.3</b>
EB-1-2.5	<b>50.9</b>	<b>46.8</b>	<b>8.4</b>
EB-1-2.5	<b>77.2</b>	<b>56.8</b>	<b>30.4</b>
EB-1-5.0	<b>1.38</b>	<b>0.953</b>	<b>36.6</b>

Table 8  
 Summary Relative Percent Differences  
 I-15 SI/ADL Survey  
 Riverside County MP 49.8 - 52.3  
 San Bernardino County MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
 and Fontana, California

Sample ID	Primary Sample (mg/kg)	Duplicate Sample (mg/kg)	RPD
EB-1-5.0	122	171	33.4
EB-1-5.0	11.2	14.0	22.2
EB-1-5.0	6.44	8.07	22.5
EB-1-5.0	11.1	13.9	22.4
EB-1-5.0	3.55	9.25	89.1
EB-1-5.0	0.012	0.015	22.2
EB-1-5.0	3.52	4.05	14.0
EB-1-5.0	46.1	53.5	14.9
EB-1-5.0	40.5	67.9	50.6

Notes:

RPD = Relative Percent Difference

mg/kg = milligrams/kilograms

ND = Non-detect

NA = RPD could not be calculated based on one or more non-detect samples

J = Result is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL)

= denotes RPD above 100 indicating poor precision

**Table 9**  
**Statistical Analysis**  
**I-15 SI/ADL Survey**  
**Riverside Co. MP 49.8 - 52.3**  
**San Bernardino Co. MP 0.0 - 12.2**  
**Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga**  
**and Fontana, California**

<b>TTLIC and STLC WET Citric Data Analysis</b>	<b>TTLIC</b>	<b>WET CA</b>
Distribution Type	Non-Parametric	Non-Parametric
Number of Samples, n	1,227	125
Minimum Detected Value	0.192	0.02 (mg/L)
Maximum Detected Value	251 (mg/kg)	12.0 (mg/L)
Mean (Average), x	6.67 (mg/kg)	0.645 (mg/L)
Std Deviation of sample set, s	13.8 (mg/kg)	1.76 (mg/L)
95% UCL on data KM (Chebychev) Method	<b>8.39 (mg/kg)</b>	<b>1.33 (mg/L)</b>

<b>Additional Analysis</b>	<b>WET DI</b>	<b>TCLP</b>	<b>pH</b>
Number of Samples, n	20	0	91
Minimum Detected Value	0.0098 (mg/L)	NA	6.41
Maximum Detected Value	0.58 (mg/L)	NA	8.61
Mean (Average), x	0.125 (mg/L)	NA	8.00
Std Deviation of sample set, s	0.152 (mg/L)	NA	0.485

NA = not applicable

mg/L = milligrams per liter

UCL = Upper Confidence Level

UCL Methods and values provided by the Environmental Protection Agency's statistical program, ProUCL, Version 4.1

Distribution type was selected based on histograms produced by ProUCL

WET CA = California Waste Extraction Test (citric acid leachate)

WET DI = California Waste Extraction Test (deionized water leachate)

TTLIC = Total Threshold Limit Concentration

TCLP = Toxicity Characteristic Leaching Procedure

APPENDIX A  
SOIL SAMPLE LOGS

# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
RR-10-0.5	11/4/16	SM	silty sand	angular	light brown	dry	fine	low/no	cobbles
RR-10-1.0	↓								
RR-10-2.5	↓								
RR-9-0.5									
RR-9-1.0									
RR-9-2.5									
RR-9-5.0		ML	sandy silt				very fine		
AL-01-0.5	3/14/16	SM	silty sand	angular	brown	dry	fine	low/no	
AL-01-1.0	↓	SM							
AL-01-2.5	↓	SM				slightly moist			
AL-01-5.0	↓	SM							
AL-02-0.5		GM	silty sand	angular	light brown	slightly moist	fine	low/no	
AL-02-1.0		SM							
AL-02-2.5		SM				moist			
AL-02-5.0		SM				moist	very fine		
AL-06-0.5		SP	poorly graded sand	angular	brown	slightly moist	fine	none	
AL-06-1.0		SP							
AL-06-2.5	↓	SP					very fine		

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

<sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded

<sup>3</sup> Dry = no moisture, dusty to the touch; Moist = Damp but no visible water; Wet = Visible free water

<sup>4</sup> Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)

<sup>5</sup> Non-plastic, Low, Medium, High

<sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor

# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-06-5.0	3/14/17	SP	poorly graded sand	angular	brown	moist	fine	none	
AL-07-0.5	↓	SM	silty sand	angular	brown	moist	fine	none	
AL-07-1.0		SM	"	"	"	"	"	"	
AL-07-2.5		SM	"	"	"	"	"	"	
AL-07-5.0		SM	"	"	"	"	"	"	
AL-12-0.5		SM	"	"	"	"	fine to coarse	low	
AL-12-1.0		SM	"	"	"	"	fine	none	
AL-12-2.5		SC	clayey sand	"	"	moist	fine	low	
AL-12-5.0		SC	clayey sand	"	"	"	"	"	
AL-13-0.5		SM	silty sand	"	"	moist	fine	none	
AL-13-1.0		SM	silty sand	"	"	"	"	"	
AL-13-2.5		SM	silty sand	"	"	"	"	"	
AL-13-5.0		SC	clayey sand	"	"	dry	"	low	
AL-14-0.5		SM	silty sand						
AL-14-1.0		SM	silty sand						
AL-14-2.5	SM	silty sand							
AL-14-5.0	SC	clayey sand							

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

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<sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor

# Soil Sample Log

P/N 603445.100

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-15-0.5	3/14/17	ML	sandy silt	angular	light brown	dry	v. fine	none	
AL-15-1.0		ML	sandy silt	"	"	"	"	"	
AL-15-2.5		ML	sandy silt	"	"	"	"	"	
AL-15-5.0		SP	poorly graded sand	"	"	moist	fine	"	
AL-16-0.5		SM	silty sand	"	dark brown	wet	fine to coarse	none	some fine gravel
AL-16-1.0		SM	silty sand	"	"	"	"	"	some fine gravel
AL-16-2.5		SM	silty sand	"	brown	"	fine	"	
AL-16-5.0		SC	clayey sand	"	"	moist	fine	low	
AL-21-0.5		SM	silty sand	"	"	dry	fine	none	
AL-21-1.0		SP	poorly graded sand	"	light brown	moist	medium	none	w/ pebbles
AL-21-2.5		SP	poorly graded sand	"	"	"	"	"	w/ pebbles
AL-21-5.0		SC	clayey sand	"	brown	"	fine	low	
1407 AL-30-0.5		SM	silty sand	"	brown	dry	fine	none	
14001 AL-30-1.0		SM	silty sand	"	brown	dry	fine to coarse	none	
1412 AL-30-2.5		SP	poorly graded sand	"	"	moist	fine	none	
1414 AL-30-5.0		SC	clayey sand	"	"	"	"	low	
1424 AL-35-0.5		<del>ML</del>	sandy silt	"	gray	dry	fine	none	
1425 AL-35-1.0		SM	silty sand	"	brown	dry	fine to coarse	none	w/ pebbles

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

<sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded

<sup>3</sup> Dry = no moisture, dusty to the touch; Moist = Damp but no visible water; Wet = Visible free water

<sup>4</sup> Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)

<sup>5</sup> Non-plastic, Low, Medium, High

<sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor





# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
1423	3/14/17	SM	silty sand	angular	brown	moist	fine to coarse	none	
1424	3/14/17	SC	clayey sand	"	"	"	fine	low	
1444		SM	silty sand	angular	gray-brown	dry	fine	none	
1445		SM	silty sand	angular	brown	moist	coarse to fine	none	
1447		"	"	"	"	"	"	"	
1449		"	"	"	"	"	"	"	
AL-31-0.5	3/15/17								
AL-31-1.0		SM	silty sand	angular	brown	moist	fine	none	
AL-31-2.5		SP	poorly graded sand	angular	brown	moist	fine	none	
AL-31-5.0		SP	poorly graded sand	angular	brown	moist	fine	none	
AL-32-0.5		SM	silty sand	angular	brown	moist	fine	none	
AL-32-1.0		SP	poorly graded sand	angular	brown	moist	fine	none	
AL-32-2.5		SP	poorly graded sand	angular	brown	moist	fine	none	
AL-32-5.0		SM	silty sand	angular	brown	moist	fine	none	
AL-39-0.5		SM	silty sand	angular	brown	dry	fine	none	
AL-39-1.0		SM	silty sand	"	"	"	"	"	
AL-39-2.5		SM	silty sand	"	"	"	"	"	
AL-39-5.0		SM	silty sand	"	"	"	"	"	

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

<sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded

<sup>3</sup> Dry = no moisture, dusty to the touch; Moist = Damp but no visible water; Wet = Visible free water

<sup>4</sup> Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)

<sup>5</sup> Non-plastic, Low, Medium, High

<sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor

# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-41-0.5	3/15/12	SM	silty sand/gravel	Subangular	gray	dry	fine	none	fine gravel
AL-41-1.0		"	"	"	brown	moist	"	"	fine to coarse gravel
AL-41-2.5		"	"	"	"	"	"	"	"
AL-41-5.0		"	silty sand	angular	"	"	"	"	clay grain encountered
AL-42-0.5		SM	silty sand	angular	"	"	"	"	
AL-42-1.0		SM	silty sand	angular	"	"	"	"	
AL-42-2.5		SM	"	"	"	"	"	"	
AL-42-5.0		SP	poorly graded sand	"	"	"	V. fine	"	
AL-43-0.5		SM	silty sand	angular	brown	dry	fine	none	
AL-43-1.0		SM	silty sand	angular	brown	moist	V. fine	none	
AL-43-2.5		SM	silty sand	angular	brown	moist	V. fine	none	
AL-43-5.0		SM	silty sand	angular	brown	moist	V. fine	none	
AL-46-0.5		SM	silty sand	angular	dark brown	dry	fine	none	organic material at top of boring
AL-46-1.0		SM	silty sand	angular	brown	moist	V. fine	none	Some fine gravel
AL-46-2.5		SC	clayey sand	angular	brown	moist	V. fine	low/none	
AL-46-5.0		SC	clayey sand	angular	brown	moist	V. fine	low/none	
AL-48-0.5		SM	silty sand	Subangular	light brown	dry	V. fine	none	
AL-48-1.0		ML	sandy silt	angular	brown	moist	V. fine (sands)	none	

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

<sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded

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<sup>4</sup> Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-48-2.5	3/15/17	SM	silty sand	angular	brown	moist	fine	none	
AL-48-5.0		SM	silty sand	angular	brown	moist	v.fine	none	
AL-53-0.5		SM	silty sand	angular	dark brown	dry	fine	none	
AL-53-1.0		SM	silty sand	angular	brown	moist	v.fine	none	
AL-53-2.5		SP	poorly graded sand	angular	brown	moist	v.fine	none	
AL-53-5.0		SP	poorly graded sand	angular	brown	moist	v.fine	none	
AL-55-0.5		SM	silty sand	subangular	gray brown	dry	fine	none	
AL-55-1.0		SM	silty sand	angular	brown	moist	v.fine	none	
AL-55-2.5		SM	silty sand	angular	brown	moist	v.fine	none	
AL-55-5.0		SG	gravelly sand	angular	dark brown	moist	coarse to fine	none	
AL-54-0.5		SM	silty sand w/ gravel	angular	light brown	dry	fine to coarse	none	fine to coarse gravel
AL-54-1.0		SM	silty sand w/ gravel	angular	brown	dry	fine	none	fine gravel
AL-54-2.5		SG	gravelly sand	angular	brown	moist	fine to coarse	none	some cobbles
AL-54-5.0		SM	silty sand	angular	brown	moist	medium	none	
AL-51-0.5		SM	"	"	"	dry	fine	none	
AL-51-1.0		SM	"	"	"	moist	"	"	
AL-51-2.5		SM	"	"	"	"	v.fine	"	trace fine gravel
AL-51-5.0		SM	"	"	"	"	v.fine	"	"

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-49-0.5	3/15/17	SM	silty sand	angular	brown	moist	v. fine	none	
AL-49-1.0		SM	silty sand	angular	brown	moist	v. fine	none	
AL-49-2.5		SM	silty sand	angular	brown	moist	v. fine	none	
AL-49-5.0		SM	silty sand	angular	brown	moist	v. fine	none	
AL-47-0.5		SM	silty sand	angular	brown	moist	v. fine	none	
AL-47-1.0		SM	silty sand	angular	brown	moist	v. fine	none	
AL-47-2.5		SM	silty sand	angular	brown	moist	v. fine	none	
1414 AL-47-5.0		SM	silty sand	angular	brown	moist	v. fine	none	
AL-45-0.5		SM	silty sand	angular	brown	moist	v. fine	none	
AL-45-1.0		SM	silty sand	angular	brown	moist	v. fine	none	
AL-45-2.5		<del>SM</del> ML	<del>silty sand</del> sandy silt	N/A	brown	moist	N/A	none	med stiff
1433 AL-45-5.0		SM	silty sand	angular	brown	moist	v. fine	none	
AL-50-0.5	3/16/17	ML	sandy silt		brown	dry		none	
AL-50-1.0		SM	silty sand	angular	brown	dry	v. fine	none	
AL-50-2.5		SM	silty sand	"	"	moist	"	"	
AL-44-0.5		SM	silty sand	"	"	dry	"	"	
AL-44-1.0		SM	silty sand	"	"	moist	"	"	
AL-44-2.5		SM	silty sand	"	"	"	"	"	

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-44-5.0	3/16/17	SM	Silty Sand	angular	brown	moist	v. fine	none	
AL-40-0.5		SM	silty sand	"	"	"	"	"	
AL-40-1.0		SM	silty sand	"	"	"	"	"	
AL-40-2.5		SM	silty sand	"	"	"	"	"	Trace fine gravel
AL-40-5.0		SM	silty sand	"	"	"	"	"	"
AL-34-0.5		SM	silty sand	"	"	dry	"	"	
AL-34-1.0		SM	silty sand	"	"	moist	"	"	
AL-34-2.5		SP	poorly graded sand	"	"	"	"	"	
AL-34-5.0		SP	poorly graded sand	"	"	"	"	"	
AL-28-0.5		SM	silty sand	"	"	clay	fine	"	
AL-28-1.0		SM	silty sand 1/2 gravel	"	"	moist	v. fine	"	fine gravel
AL-28-2.5		SM	silty sand	"	"	"	"	"	
AL-28-5.0		SM	silty sand	"	"	"	"	"	
AL-27-0.5		SM	silty sand	"	"	dry	"	"	
AL-27-1.0		SM	silty sand	"	"	moist	"	"	
AL-27-2.5		SM	silty sand	"	"	moist	"	"	
AL-27-5.0		SP	poorly graded sand	"	"	"	"	"	
AL-33-0.5		SM	Silty sand	"	light brown	dry	x fine to fine	"	

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-33-1.0	3/16/17	SP	poorly graded sand	angular	brown	moist	v. fine	none	
AL-33-2.5		SP	poorly graded sand	"	"	"	"	"	
AL-53-5.0		SP	poorly graded sand	"	"	"	"	"	
AL-29-0.5		SM	silty sand	"	"	"	"	"	
AL-29-1.0		SM	silty sand	"	"	"	"	"	
AL-29-2.5		SM	silty sand	"	"	"	"	"	
AL-29-5.0		SM	silty sand w/ gravel	"	"	"	"	"	fine gravel
AL-26-0.5		SM	silty sand w/ gravel	"	light brown	dry	fine to v. fine	"	"
AL-26-1.0		SM	silty sand	"	brown	moist	v. fine	"	
AL-26-2.5		SM	silty sand	"	"	"	"	"	
AL-26-5.0		SP	poorly graded sand	"	"	"	"	"	
AL-25-0.5		SM	silty sand w/ gravel	"	gray-brown	dry	v. fine	"	
AL-25-1.0		SM	silty sand	"	brown	moist	v. fine	"	
AL-25-2.5		SM	silty sand	"	"	"	"	"	
AL-25-5.0		SM	silty sand w/ gravel	"	"	"	"	"	fine gravel
AL-24-0.5		SM	silty sand	"	gray-brown	dry	v. fine - fine	"	
AL-24-1.0		SM	silty sand	"	brown	"	fine	"	
AL-24-2.5		SM	silty sand	"	"	moist	fine	"	

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

<sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded

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<sup>4</sup> Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)

<sup>5</sup> Non-plastic, Low, Medium, High

<sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor

# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>	
AL-24-5.0	3/16/17	SM	silty sand	angular	brown	moist	fine - v. fine	none	dense	
AL-23-0.5	↓	SM	silty sand	angular	brown	dry	fine	none		
AL-23-1.0		SM	silty sand	"	"	moist	v. fine to medium	"		
AL-23-2.5		SM	silty sand	"	"	"	v. fine	"		
AL-23-5.0		SM	silty sand	"	"	"	"	"		
AL-22-0.5		SM	silty sand / gravel	"	"	dry	"	"		
AL-22-1.0		SM	silty sand	"	"	moist	v. fine	"		
AL-22-2.5		SM	silty sand	"	"	moist	v. fine	"		
AL-22-5.0		ML	sandy silt	N/A	"	"	v. fine sand	"		
AL-19-0.5		SM	silty sand	angular	brown	dry	v. fine	"		
AL-19-1.0		SM	silty sand	"	"	moist	"	"		
AL-19-2.5		SM	" "	"	"	"	"	"		
AL-19-5.0		SP	poorly graded sand	"	"	"	fine	"		
RR-6-0.5		3/20/17	SP	poorly graded sand	"	"	"	v. fine	"	
RR-6-1.0		SP	"	"	"	"	"	"		
RR-6-2.5	SP	"	"	"	"	"	"			
RR-6-3.0	SP	"	"	"	"	"	"			
RR-5-0.5	↓	SP	"	"	"	"	"			

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

<sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded

<sup>3</sup> Dry = no moisture, dusty to the touch; Moist = Damp but no visible water; Wet = Visible free water

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
RR-5-1.0	3/20/17	SM	silty sand w/ clay	angular	Brown	moist	v.fine	low	
RR-5-2.5		SM	silty sand	"	"	"	"	none	
RR-5-5.0		SM	silty sand	"	"	"	"	"	
AL-18-0.5		S <del>PSM</del>	<del>silty sand</del> poorly graded sand	"	"	"	"	"	
AL-18-1.0		SM	silty sand	angular	brown	moist	v.fine	none	
AL-18-2.5		SM	silty sand	angular	brown	moist	v.fine	none	
AL-18-5.0		SP	poorly graded sand	angular	brown	moist	v.fine	none	
AL-17-0.5		SM	silty sand	angular	brown	moist	fine	none	
AL-17-1.0		SM	silty sand	angular	brown	moist	fine	none	
AL-17-2.5		SM	silty sand	angular	brown	moist	v.fine	none	
AL-17-5.0		SM	silty sand	angular	brown	moist	v.fine	none	
AL-11-0.5		SM	silty sand	angular	brown	<del>dry</del>	v.fine	none	
AL-11-1.0		SM	silty sand	angular	brown	moist	fine	none	
AL-11-2.5		SM	silty sand	angular	brown	moist	fine	none	
AL-11-5.0		SM	silty sand	angular	brown	moist	fine	none	
AL-10-0.5		SM	silty sand	angular	brown	moist	fine	none	
AL-10-1.0		SM	silty sand	angular	brown	moist	fine	none	
AL-10-2.5		SM	silty sand	angular	brown	moist	fine	none	

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-10-5.0	3/20/17	SM	silty sand	angular	brown	wet	fine	none	
AL-9-0.5		SM	silty sand	angular	brown	dry	fine	none	
AL-9-1.0		SM	silty sand	angular	brown	wet	fine	none	
AL-9-2.5		SM	silty sand	angular	brown	wet	fine	none	
AL-9-5.0		SM	silty sand	angular	brown	wet	fine	none	
AL-8-0.5		SW	well graded sand	subangular to rounded	dark brown	dry	fine to coarse	none	as per the gradings mixed in
AL-8-1.0		SM	silty sand	angular	brown	wet	fine	none	
AL-8-2.5		SM	silty sand	"	"	"	"	"	
AL-8-5.0		SM	silty sand	"	"	"	"	"	
AL-5-0.5		SM	silty sand	angular	light brown	dry	fine	none	
AL-5-1.0		SM	silty sand	angular	brown	wet	v. fine	none	
AL-5-2.5		SM	silty sand	angular	brown	wet	v. fine	none	
AL-5-5.0		SM	silty sand	angular	brown	wet	v. fine	none	
AL-3-0.5		SM	silty sand	angular	light brown	dry	v. fine	none	
AL-3-1.0		SP	poorly graded sand	angular	brown	wet	v. fine	none	
AL-3-2.5		SP	poorly graded sand	angular	brown	wet	v. fine	none	
AL-3-5.0		SP	poorly graded sand	angular	brown	wet	v. fine	none	
AL-20-0.5		SP	silty sand	angular	brown	dry	fine	none	

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-20-1.0	3/20/17	SM	silty sand	angular	brown	moist	v.fine	none	
AL-20-2.5	↓	SM	<del>silty sand</del> silty sand	angular	brown	moist	v.fine	none	
AL-20-5.0		ML	<del>sandy silt</del> sandy silt	N/A	brown	moist	N/A	low/none	
RR-30-5		SM	sandy silt	angular	light brown	dry	v.fine	none	
RR-3-1.0		SM	"	"	brown	moist	"	"	
RR-3-2.5		SM	"	"	"	moist	"	"	
RR-3-5.0		SM	"	"	"	moist	"	"	
RR-2-0.5		3/21/17	SM	"	"	"	"	"	
RR-2-1.0		SM	"	"	"	"	"	"	
RR-2-2.5		SM	"	"	"	"	"	"	
RR-2-5.0		SM	"	"	"	"	"	"	
RR-1-0.5		SM	silty sand	"	light brown	dry	v.fine	none	
RR-1-1.0		SM	"	"	"	"	"	"	
RR-1-2.5		SM							
RR-1-5.0		SM	"	"	brown	moist	"	"	
AL-61-0.5		SM	silty sand w/ gravel	"	"	dry	fine to medium	"	
AL-61-1.0		SM	silty sand w/ gravel	"	"	moist	fine to coarse	"	
AL-61-2.5	↓	SM	silty sand w/ gravel	"	brown	moist	fine to coarse	"	

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-81-3.0	3/21/17	SM	silty sand w/ gravel	angular	light brown	moist	fine	none	
AL-83-0.5		SM	"	"	"	dry	fine to coarse	"	
AL-83-1.0		SM	"	"	"	"	"	"	
AL-83-2.0		SM	"	"	"	"	"	"	
AL-84-0.5		SM	"	Subangular	brown	moist	fine to coarse	"	
AL-84-1.0		SM	"	"	"	"	"	"	
AL-84-2.5		SM	"	angular	"	"	"	"	
AL-84-5.0		SM	"	"	"	"	"	"	
AL-94-0.5	3/23/17	SM	"	Subangular	light brown	dry	fine	"	
AL-94-1.0		SM	"	"	"	"	"	"	
AL-94-2.5		SM	"	"	brown	moist	fine to medium	"	
AL-94-4.0		SM	"	"	"	"	"	"	
AL-96-0.5		SM	"	"	dark brown	"	"	"	
AL-96-1.0		SM	"	"	"	"	"	"	
AL-96-2.5		SM	"	"	"	"	fine to coarse	"	
AL-96-5.0		SM	"	"	"	"	"	"	
AL-98-0.5		SM	silty sand w/ gravel	"	"	"	fine to medium	"	
AL-98-1.0		SP	well graded sand	"	"	"	fine to coarse	"	

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-134-0.5	3/27/17	SM	silty sand	angular	dark brown	moist	fine to coarse	none	
AL-134-1.0		SM	silty sand	angular	brown	"	"	"	
AL-134-2.5		SM	silty sand w/ gravel	subangular	brown	"	"	"	
AL-134-5.0		SM	"	"	"	"	"	"	
AL-136-0.5		SM	silty sand w/ gravel	"	grey brown	dry	fine to coarse	"	
AL-136-1.0		SM	silty sand w/ clay	"	reddish brown	moist	"	"	
AL-136-2.5		SM	silty sand	"	dark brown	moist	"	"	
AL-136-5.0		SM	silty sand w/ gravel	"	brown	"	fine to coarse	"	
AL-140-0.5		SM	silty sand w/ gravel	"	dark brown to black	dry	"	"	
AL-140-1.0		SM	"	"	grey brown	dry	"	"	
AL-140-2.5		SM	"	"	dark brown	moist	fine	"	
AL-140-5.0		SM	"	rounded	"	"	"	"	
AL-141-0.5		SM	silty sand w/ gravel	subangular	"	"	"	"	
AL-141-1.0		SM	"	"	"	"	"	"	
AL-141-2.5		SM	"	"	brown	moist	fine to medium	"	
AL-141-5.0		SM	"	"	"	"	"	"	
AL-139-0.5		SM	"	"	dark brown	"	"	"	
AL-139-1.0	↓	SM	"	"	brown	dry	"	"	

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-139-2.5	3/23/07	SM	silty sand w/ gravel	subangular	light brown	dry	fine to coarse	none	
AL-139-5.0		ML	sandy silt	NA	dark brown	moist	NA	none	fine sand
AL-137-0.5		SM	silty sand	angular	brown	dry	fine to medium	none	
AL-137-1.0		SM	silty sand w/ gravel	angular	brown	moist	fine to coarse	none	fine gravel
AL-137-2.5		SC	clayey sand	angular	reddish brown	moist	"	low	
AL-137-5.0		SM	silty sand w/ gravel	angular	dark brown	"	fine to medium	none	fine gravel
AL-135-0.5		SM	silty sand w/ gravel	subangular	dark brown	dry	fine to coarse	none	
AL-135-1.0		SC	clayey sand w/ gravel	subrounded	gray brown	dry	fine to coarse	low	fine gravel
AL-135-2.5		SM	silty sand w/ gravel	subangular	brown	moist	fine to medium	none	
AL-135-5.0		SW	well graded sand w/ gravel	angular	light gray	dry	fine to coarse	none	
AL-133-0.5		SW	well graded sand w/ gravel	angular	dark brown	dry	fine to coarse	none	
AL-133-1.0		SW	"	"	"	"	"	"	
AL-133-2.5		SW	"	"	"	"	"	"	
AL-133-5.0		SW	"	"	"	"	"	"	
AL-128-0.5		SM	silty sand w/ gravel	angular	gray brown	dry	fine to coarse	none	
AL-128-1.0		SM	"	"	reddish brown	moist	fine	none	
AL-128-2.5		SC	clayey sand	"	"	moist	fine to coarse	low	weathered granitic
AL-128-5.0	V	SM	silty sand	subangular	brown	moist	fine to medium	none	

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-126-0.5	3/23/17	GM	Silty sand w/ gravel	angular	light brown	moist	fine to coarse	none	
AL-126-1.0		SC	clayey sand	subrounded	brown	moist	fine	low	
AL-126-2.5		SC	clayey sand w/gravel	"	"	"	"	"	
AL-126-5.0		SM	silty sand	"	dark brown	"	"	none	
AL-124-0.5		SM	" w/gravel	"	brown	dry	v. fine to coarse	none	
AL-124-1.0			Asphalt						
AL-124-2.5		SM	Silty sand w/gravel	angular	brown	moist	v. fine to medium	none	
AL-124-5.0		SM	"	"	"	"	"	"	
AL-123-0.5		SM	"	"	"	"	fine to medium	"	
AL-123-1.0			Asphalt						
AL-123-2.5		SM	silty sand	angular	brown	moist	fine	"	
AL-123-5.0	↓	SW	wellgraded sand	"	"	"	fine to coarse	"	
AL-120-0.5	3/27/17		Asphalt						
AL-120-1.0		SM	silty sand	angular	brown	moist	fine	plastic	
AL-120-2.5		SM	silty sand w/gravel	angular	light brown	dry	fine	"	fine gravel
AL-120-5.0		SM	silty sand w/gravel	angular	brown	dry	fine	"	fine gravel w/cobbles
AL-1120-0.5			Asphalt						
AL-1120-1.0	↓	SM	silty sand w/gravel	angular	brown	moist	fine	none	fine gravel

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-1120-2.5	3/27/17	SM	silty sand <sup>1/4</sup> gravel	angular	light brown	dry	fine to coarse	none	fine gravel
AL-1120-5.0		SM	silty sand <sup>1/4</sup> gravel	angular	gray	dry	"	"	fine to coarse gravel
AL-111-0.5		SM	"	"	brown	"	"	"	fine to coarse gravel
AL-111-1.0		SM	silty sand	"	"	moist	fine	"	
AL-111-2.5		SM	silty sand	"	"	"	"	"	
AL-111-5.0		SM	"	"	"	"	"	"	
AL-100-0.5		SM	silty sand <sup>1/4</sup> gravel	"	"	dry	fine to coarse	"	fine gravel
AL-100-1.0		SM	silty sand <sup>1/4</sup> gravel	"	"	"	"	"	"
AL-100-2.5		SM	"	"	gray	"	"	"	"
AL-100-5.0		SM	silty sand	"	brown	moist	fine	"	
AL-91-0.5		SM	silty sand	"	light brown	dry	fine	"	
AL-91-1.0		SM	"	"	"	"	"	"	
AL-91-2.5		SW	well graded sand	"	"	"	fine to coarse	"	
AL-91-5.0		SM	silty sand	"	brown	moist	fine to medium	"	
AL-87-0.5		SM	"	"	light brown	dry	fine	"	
AL-87-1.0		SM	"	"	"	"	"	"	
AL-87-2.5		SM	"	"	"	"	"	"	
AL-87-5.0		SM	silty sand <sup>1/4</sup> gravel	"	"	moist	"	"	fine gravel

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-85-0.5	3/27/17	SM	Silty sand w/ cobbles	Subangular	Brown	dry	fine	none	
AL-85-1.0		SM	Silty sand w/ gravel	"	light brown	dry	"	"	fine gravel
AL-85-2.5		SM	"	"	"	"	"	"	"
AL-85-5.0		SM	Silty sand	"	brown	moist	"	"	
AL-80-0.5		SM	Silty sand	"	brown	dry	"	"	
AL-80-1.0		SM	Silty sand	"	"	"	"	"	
AL-80-2.5		SM	"	"	"	"	"	"	
AL-80-5.0		SM	"	"	"	"	"	"	
AL-79-0.5		SM	Silty sand	angular	brown	"	fine to coarse	"	
AL-79-1.0		SM	"	"	"	"	fine	"	
AL-79-2.5		SW	Well graded sand with gravel	"	"	dry	fine to coarse	"	
AL-79-5.0		SM	Silty sand	"	"	moist	fine	"	
AL-57-0.5		SM	Silty sand	"	light brown	dry	Very fine	"	
AL-57-1.0		SM	Silty sand w/ gravel	"	dark brown	dry	fine to medium	"	fine gravel
AL-57-2.5		SM	Silty sand	"	brown	moist	fine	"	
AL-57-5.0		SM	"	"	"	"	"	"	
AL-56-0.5		SM	Silty sand	Subangular	light brown	dry	fine	"	
AL-56-1.0		SM	"	"	"	"	"	"	

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

<sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded

<sup>3</sup> Dry = no moisture, dusty to the touch; Moist = Damp but no visible water; Wet = Visible free water

<sup>4</sup> Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)

<sup>5</sup> Non-plastic, Low, Medium, High

<sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor



## Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-56-25	3/27/17	SM	Silty Sand w/ gravel	Subangular	dark brown to brown	dry	Fine to Coarse	none	Fine gravel
AL-56-5.0		SM	"	"	"	"	"	"	Coarse gravel
AL-118-0.5		SM	silty sand	"	dark brown	moist	fine	none	
AL-118-1.0		SM	" w/ gravel	angular	brown	moist	fine to medium	none	Fine gravel
AL-118-2.5		SM	"	"	"	dry	fine to coarse	none	Fine gravel
AL-118-5.0		SM	"	"	"	"	fine to medium	"	"
AL-115-0.5		SM	silty sand	"	dark brown	dry	fine to medium	"	"
AL-115-1.0		SM	silty sand w/ gravel	"	"	"	fine to coarse	"	"
AL-115-2.5		SM	silty sand	"	brown	moist	fine	"	
AL-115-5.0		SM	silty sand w/ gravel	"	brown	moist	fine to medium	"	Fine gravel
AL-88-0.5		SM	silty sand	"	dark brown to black	dry	fine to coarse	"	
AL-88-1.0		SM	silty sand w/ gravel	"	dark brown	moist	fine	"	Fine gravel
AL-88-2.5		SC	clayey sand	"	brown	moist	fine	low / no	
AL-88-5.0		SM	silty sand	"	"	"	"	none	
AL-90-0.5		ML	Sandy silt	NA	"	dry	fine to medium	none	
AL-90-1.0		ML	"	NA	"	"	"	"	
AL-90-2.5		SM	silty sand	angular	light brown	dry	fine to coarse	"	
AL-90-5.0		SW	well graded sand	"	"	"	"	"	

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-63-0.5	3/21/17	SM	Silty sand w/ gravel	Subangular	light brown	dry	fine to coarse	none	
AL-63-1.0	3/21/17	SM	Silty sand w/ gravel	"	"	"	"	"	
AL-63-2.5	3/27/17	SM	Silty sand w/ gravel	"	"	"	"	"	
AL-65-0.5	↓	SM	"	"	"	"	"	"	
AL-65-1.0		SM	"	"	"	"	"	"	
AL-65-2.5		SM	"	"	"	"	"	"	
AL-65-3.0		SM	"	"	"	"	"	"	
AL-69-0.5		SM	"	"	"	"	"	"	
AL-69-1.0		SM	"	"	"	"	"	"	
AL-69-2.5		SM	Silty sand	"	"	"	"	"	
AL-69-3.0		SM	Silty sand	"	"	"	"	"	
AL-70-0.5		SM	Silty sand w/ gravel	"	"	"	"	"	
AL-70-1.0		SM	Silty sand w/ gravel	"	"	"	"	"	
AL-70-2.5	SM	Silty sand w/ gravel	"	"	moist	coarse to medium	"		
AL-70-5.0	SM	"	"	"	"	"	"		
AL-72-0.5	SM	"	"	angular	"	"	"	"	
AL-72-1.0	SM	Silty sand	"	angular	brown	"	fine	"	
AL-72-2.5	SM	"	"	"	"	"	"	"	

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

<sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded

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<sup>4</sup> Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)

<sup>5</sup> Non-plastic, Low, Medium, High

<sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor

# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-72-5.0	3/27/17	SM	silty sand w/ gravel	angular	brown	moist	fine to coarse	none	
AL-74-0.5		SC	clayey sand	angular	reddish brown	dry	fine to coarse	low/none	
AL-74-1.0		SC	"	"	"	"	"	low/none	
AL-74-2.5		SC	clayey sand w/ gravel	"	"	"	"	"	
AL-74-3.0		SM	silty sand w/ gravel	"	light brown	moist	"	none	
AL-77-0.5		SM	silty sand w/ gravel	"	"	dry	fine	"	
AL-77-1.0		SM	silty sand w/ gravel	"	"	"	fine to coarse	"	
AL-77-2.5		SM	silty sand w/ gravel	"	"	moist	"	"	
AL-78-0.5		SM	silty sand w/ gravel	"	"	dry	"	"	
AL-78-1.0		SM	silty sand w/ gravel	"	"	"	"	"	
AL-78-2.0		SM	silty sand w/ gravel	"	"	"	"	"	
AL-82-0.5		SM	silty sand w/ gravel	"	light brown	moist	"	"	
AL-82-1.0		SM	silty sand w/ gravel	"	"	moist	fine	"	
AL-82-2.5		SM	silty sand w/ gravel	"	"	"	"	"	
AL-82-5.0		SM	silty sand w/ gravel	"	"	"	"	"	
AL-81-0.5		SM	silty sand w/ gravel	"	"	dry	fine	"	
AL-81-1.0		SM	silty sand w/ gravel	"	"	dry	"	"	
AL-81-2.5		SM	silty sand w/ gravel	"	"	moist	"	"	

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

<sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded

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<sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor

# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
EB-1-0.5	3/27/17	SM	silty sand w/ gravel	angular	light brown	dry	fine to coarse	none	
EB-1-1.0		SM	"	"	"	"	"	"	
EB-1-2.5		SM	silty sand	subangular	dark brown	moist	fine to medium	none	
EB-1-5.0		SW	well graded sand w/ gravel	angular	light brown	dry	"	"	
EB-2-0.5		SP	poorly graded sand	"	"	moist	fine to medium	"	
EB-2-1.0		SC	clayey sand	"	gray-brown	"	fine to coarse	low/nd	
EB-2-2.5		SC	"	"	"	"	"	"	
EB-2-5.0		SM	silty sand	"	gray	"	"	none	
AL-93-0.5	3/28/17	SM	"	"	brown	"	fine	none	w/ well rounded cobbles
AL-93-1.0		SM	"	"	"	"	"	"	"
AL-93-2.5		SM	"	"	"	"	"	"	"
AL-89-0.5		SM	"	"	gray brown	dry	fine	"	w/ gravel and cobbles
AL-89-1.0		SM	"	"	brown	moist	fine	"	
AL-89-2.0		SM	"	"	"	"	"	"	
AL-101-0.5		SM	silty sand w/ gravel	"	"	clay	fine to coarse	"	coarse gravel
AL-101-1.0		SM	silty sand w/ gravel	"	dark brown	moist	fine	"	gravel fine to cobbles
AL-103-0.5		SP	poorly graded sand	"	light tan	dry	fine to coarse	"	w/ gravel and cobbles
AL-103-1.0		SM	silty sand w/ gravel	"	brown	"	"	"	w/ cobbles

**Notes:**

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-98-2.5	3/23/07	SM	silty sand w/ gravel	subangular	light brown	dry	fine to coarse	none	
AL-98-5.0		SM	silty sand w/ gravel	subangular	brown	moist	fine to medium	none	
AL-112-0.5		SM	"	"	dark brown	"	"	"	
AL-112-1.0		SM	silty sand	"	"	"	fine	"	
AL-112-2.5		SC	clayey sand w/ gravel	"	brown	moist	fine to medium	none/low	
AL-112-5.0		SC	"	"	brown	"	"	"	
AL-116-0.5		SM	silty sand	"	brown	"	fine to coarse	none	
AL-116-1.0		SM	silty sand w/ gravel	"	dark brown to black	dry	"	"	
AL-116-2.5		SW	well graded sand silty w/ silt	"	brown	moist	"	"	
AL-116-5.0		SW	"	"	"	"	"	"	
AL-121-0.5		SM	silty sand w/ gravel	"	"	dry	fine to medium	"	
AL-121-1.0		SM	"	"	"	moist	fine to coarse	"	
AL-121-2.5		SC	clayey sand w/ gravel	"	"	moist	fine	low/none	
AL-121-5.0		SC	"	"	"	"	"	"	
AL-122-0.5		SM	silty sand w/ gravel	"	gray brown	dry	fine to coarse	"	
AL-122-1.0		SM	"	"	brown	moist	"	"	
AL-122-2.5		SM	silty sand	"	brown	"	"	"	
AL-122-5.0		SM	"	"	"	"	"	"	

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-103-2.0	3/28/17	SM	Silty Sand w/ gravel	Subangular	brown	dry	fine	None	w/ cobbles
AL-105-0.5		SM	Silty sand	"	"	moist	"	"	
AL-105-1.0		SM	Silty Sand	"	"	dry	"	"	trace fine gravel
AL-105-2.5		SM	"	"	"	moist	"	"	"
AL-105-3.0		SM	"	"	dark brown	"	"	"	"
AL-107-0.5		SM	"	"	dark brown	"	"	"	"
AL-107-1.0		SM	"	"	"	"	"	"	"
AL-109-0.5		SM	"	"	"	"	"	"	
AL-109-1.0		SM	"	"	"	"	"	"	trace fine gravel
AL-109-2.5		SM	"	"	"	"	"	"	"
AL-109-0.5		SM	"	"	"	"	"	"	"
AL-113-0.5		SM	"	"	"	"	"	"	"
AL-113-1.0		SM	"	"	"	"	"	"	"
AL-113-2.5		SM	"	"	"	"	"	"	"
AL-113-3.0		SM	Silty Sand w/ gravel	"	"	"	"	"	fine gravel
AL-117-0.5		SM	Silty sand	"	"	"	"	"	trace clay
AL-117-1.0		SM	"	"	"	"	"	"	trace fine gravel
AL-117-2.5		SM	"	"	"	"	fine to medium	"	

Notes:

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P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-117a-0.5	3/29/17	SM	silty sand	angular	brown	moist	fine	none	trace gravel
AL-125-0.5	3/29/17	SM	silty sand & gravel	angular	dark brown	moist	fine to medium	none	
AL-125a-0.5		SM	"	"	"	"	"	"	
AL-125-1.0		SM	"	"	"	"	"	"	
AL-125a-1.0		SM	"	"	"	"	"	"	
AL-127-0.5		SM	silty sand & gravel	"	brown	dry	fine to coarse	"	
AL-127a-0.5		SM	"	Subangular	"	"	"	"	
AL-127-1.0		SM	"	"	"	"	"	"	
AL-127a-1.0		SM	"	"	"	"	"	"	
AL-129-0.5		SM	"	"	"	"	fine	"	
AL-129a-0.5		SM	"	Subrounded	"	"	"	"	
AL-129-1.0		SM	"	Subangular	"	"	"	"	
AL-129a-1.0		SM	"	"	"	"	"	"	
AL-138-0.5		SM	"	angular	"	"	fine to medium	"	
AL-138a-0.5		SM	"	Subangular	"	"	fine to coarse	"	
AL-138-1.0		SM	"	"	dark brown	"	"	"	
AL-138a-1.0		SM	"	"	dark brown	"	"	"	
RR-11-0.5		SM	"	"	brown	"	fine	"	

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
RR-11-1.0	3/29/17	SM	silty sand w/ gravel	subangular	brown	moist	fine to coarse	none	
RR-11-1.0	3/29/17	SM	"	"	"	"	"	"	
RR-11a-0.5		SM	"	"	"	"	"	"	
RR-13-0.5		SM	"	"	dark brown	"	"	"	fine to coarse gravel
RR-13-1.0		SM	"	angular	"	"	"	"	"
RR-13-2.5		SM	"	"	"	"	"	"	"
RR-13a-0.5		SM	"	"	"	"	"	"	"
AL-131-0.5	3/30/17	SM	"	angular	"	"	"	"	fine gravel
AL-131-1.0		SM	"	"	"	"	"	"	"
AL-131-2.5		SM	"	"	"	"	"	"	"
AL-131-4.0		SM	"	"	"	"	"	"	"
AL-119-0.5		SM	silty sand some gravel	subrounded	brown	"	fine	"	some pebbles
AL-119-1.0		SM	silty sand some gravel	subangular	"	"	"	"	
AL-119-2.5		SM	"	subrounded	"	"	fine to medium	"	
AL-119a-0.5		SM	"	"	"	"	"	"	
AL-110-0.5		SM	silty sand	subangular	"	"	fine	"	trace gravel
AL-110-1.0		SM	"	"	"	"	"	"	"
AL-110-2.5		SM	"	"	"	"	"	"	"

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-110-0.0	3/30/17	SM	Silty sand with gravel	Subangular	tan	moist	fine to medium	none	
AL-108-0.5		SM	"	"	"	"	fine to coarse	"	fine gravel
AL-108-1.0		SM	"	subrounded	"	"	"	"	"
AL-105-2.5		SM	"	subangular	"	"	fine	"	
AL-108-5.0		SW	well graded sand with gravel	angular	light brown	moist	fine to coarse	"	coarse to fine gravel
AL-106-0.5		SM	silty sand w/ gravel	subrounded	brown	"	fine to medium	"	"
AL-106-1.0		SM	"	"	"	"	"	"	"
AL-106a-0.5		SM	"	"	"	"	"	"	"
AL-106a-1.0		SM	"	"	"	"	"	"	"
AL-102-0.5		SM	"	"	light brown	dry	fine	"	"
AL-102-1.0		SM	"	"	"	"	"	"	"
AL-102a-0.5		SM	"	"	"	"	"	"	"
AL-102a-1.0		SM	"	"	brown	moist	"	"	"
AL-104-0.5		SM	"	subrounded	"	"	fine to medium	"	fine gravel
AL-104-1.0		SM	"	"	"	"	"	"	"
AL-104a-0.5		SM	"	"	"	"	"	"	"
AL-104a-1.0		SM	"	"	"	"	"	"	"
AL-100-0.0		SM	"	Subangular	brown	dry	fine	"	"

Notes:

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# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-99-1.0	3/30/17	SM	Silty sand w/ gravel	Subangular	brown	dry	Fine to medium	none	Fine gravel
AL-99-2.5	3/30/17	SM	Silty sand	"	"	"	"	"	trace fine gravel
AL-99-3.0		SM	"	"	"	"	"	"	"
AL-97-0.5		SM	"	"	"	"	Fine	"	"
AL-97-1.0		SM	"	"	"	"	"	"	"
AL-97a-0.5		SM	"	"	"	"	"	"	"
AL-97a-1.0		SM	"	"	"	"	"	"	"
AL-114-0.5	4/3/17	SM	Silty sand w/ gravel	Subangular	brown	moist	Fine	none	w/colldes
AL-114-1.0		SM	"	"	"	"	"	"	"
AL-114-2.0		SM	"	"	"	"	"	"	"
AL-114a-0.5		SM	"	"	"	"	"	"	"
AL-95-0.5		ML	sandy silt w/ gravel	"	"	dry	"	"	Fine to coarse gravel
AL-95-1.0		SM	Silty sand w/ gravel	"	"	"	"	"	"
AL-95-2.0		SM	"	"	"	"	"	"	"
AL-95a-0.5		SM	"	"	"	"	"	"	"
AL-92-0.5		SP	Poorly graded sand w/ silt and gravel	"	"	moist	to fine	"	Fine gravel
AL-92-1.0		SM	Silty sand with gravel	"	"	"	"	"	Fine gravel
AL-92a-0.5		SM	"	"	"	"	"	"	"

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

<sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded

<sup>3</sup> Dry = no moisture, dusty to the touch; Moist = Damp but no visible water; Wet = Visible free water

<sup>4</sup> Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)

<sup>5</sup> Non-plastic, Low, Medium, High

<sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor

# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-92a-1.0	4/3/17	SM	Silty sand w/gravel	Subangular	brown	moist	V. fine	none	fine to coarse gravel
AL-86-0.5		SM	Silty sand w/gravel and cobbles	"	"	dry	fine to V. fine	"	coarse to fine gravel and cobbles
AL-86-1.0		SP	Poorly graded sand w/gravel and silt	"	"	"	"	"	"
AL-86-1.5		SP	"	"	"	"	"	"	"
AL-86a-0.5		SM	Silty sand w/gravel and cobbles	"	"	"	V. fine	"	"
AL-86a-1.0		SM	"	"	"	"	"	"	"
AL-76-0.5		SM	Silty sand w/gravel	"	"	dry	"	"	fine to coarse gravel
AL-76-1.0		SM	"	angular	"	"	fine to medium	"	fine gravel
AL-76-2.0		SM	"	"	"	moist	fine	"	"
AL-76a-0.5		SM	"	"	"	dry	fine to coarse	"	fine to coarse gravel
AL-75-0.5		SM	"	"	"	"	fine	"	fine gravel
AL-75-1.0		SM	"	"	"	"	fine to medium	"	"
AL-75-2.5		SM	"	"	"	moist	V. fine	"	"
AL-75-5.0		SP	Poorly graded sand w/gravel	angular	light brown	moist	fine	"	"
AL-73-0.5		SM	Silty sand w/gravel	Subangular	"	dry	V. fine to medium	"	fine gravel
AL-73-1.0		SM	"	"	brown	moist	"	"	"
AL-73-2.5		SM	"	"	"	"	"	"	"
AL-73a-0.5		SM	"	"	light brown	dry	V. fine to coarse	"	"

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

<sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded

<sup>3</sup> Dry = no moisture, dusty to the touch; Moist = Damp but no visible water; Wet = Visible free water

<sup>4</sup> Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)

<sup>5</sup> Non-plastic, Low, Medium, High

<sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor

# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-71-0.5	4/3/17	SM	Silty sand w/ gravel	Subangular	light brown	dry	fine to coarse	none	fine to coarse gravel
AL-71-1.0		SM	"	"	tan brown	moist	"	"	"
AL-71-2.0		SM	"	angular	tan brown	moist	"	"	"
AL-71a-0.5		SM	"	Subangular	light brown	dry	"	"	"
AL-68-0.5		SM	"	"	"	"	"	"	"
AL-68-1.0		SM	"	"	"	"	"	"	"
AL-68-2.5		SM	Silty sand w/ coarse sand & cobbles	"	brown	moist	"	"	fine to coarse gravel and cobbles
AL-68a-0.5		SM	Silty sand w/ gravel	"	light brown	dry	"	"	fine to coarse gravel
AL-66-0.5		SM	"	Subrounded	"	"	"	"	"
AL-66-1.0		SM	"	"	"	"	"	"	"
AL-66-2.0		SM	"	Subangular	light brown	dry	"	"	"
AL-66a-0.5		SM	"	"	"	"	"	"	"
AL-64-0.5		SM	"	"	"	"	"	"	"
AL-64-1.0		SM	"	"	"	"	"	"	"
AL-64-2.0		SM	"	"	"	"	"	"	"
AL-64a-0.5		SM	"	"	"	"	"	"	"
AL-60-0.5		SM	"	"	"	"	"	"	"
AL-60-1.0		SM	"	"	brown	moist	"	"	"

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC = Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

<sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded

<sup>3</sup> Dry = no moisture, dusty to the touch; Moist = Damp but no visible water; Wet = Visible free water

<sup>4</sup> Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)

<sup>5</sup> Non-plastic, Low, Medium, High

<sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor

# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-02-2.0	4/3/17	SM	silty sand w/ gravel	Subangular	brown	moist	Fine to coarse	none	Fine gravel
AL-02-0.5	↓	SM	"	"	light brown	dry	"	"	"
AL-59-0.5	4/4/17	ML	sandy silt w/ gravel	angular	"	"	V. fine	"	Fine gravel
AL-59-1.0	↓	SM	silty sand w/ gravel	"	"	"	"	"	"
AL-59a-0.5	↓	ML	sandy silt w/ gravel	"	"	"	"	"	"
AL-59a-1.0	↓	SM	silty sand w/ gravel	"	"	"	Fine	"	"
AL-58-0.5	↓	SM	"	"	"	"	"	"	Fine to coarse gravel
AL-58-1.0	↓	SM	"	Subangular	"	"	"	"	"
AL-58a-0.5	↓	SM	"	"	"	"	Fine to coarse	"	"
AL-58a-1.0	↓	SM	"	"	"	"	"	"	"
AL-52-0.5	↓	ML	sandy silty gravel	"	brown	moist	fine	"	Fine gravel
AL-52-1.0	↓	ML	"	"	"	"	"	"	"
AL-52a-0.5	↓	ML	"	"	"	dry	"	"	"
AL-52a-1.0	↓	ML	"	"	"	moist	V. fine	"	"
AL-04-0.5	↓	SM	silty sand w/ gravel	"	"	"	"	"	"
AL-04-1.0	↓	SM	"	"	"	"	Fine	"	"
AL-04a-0.5	↓	SM	"	"	dark brown	"	Fine to coarse	"	"
AL-04a-1.0	↓	SM	silty sand	"	brown	"	Fine	"	"

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

<sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded

<sup>3</sup> Dry = no moisture, dusty to the touch; Moist = Damp but no visible water; Wet = Visible free water

<sup>4</sup> Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)

<sup>5</sup> Non-plastic, Low, Medium, High

<sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor

# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-37-0.5	4/4/17	SM	silty sand w/ gravel	subangular	iron brown	moist	fine	none	fine gravel
AL-37-1.0		SM	"	"	"	"	fine to coarse	"	"
AL-37-2.5		SM	<del>silty sand</del> silty sand w/ gravel and clay	"	"	"	"	"	"
AL-37-5.0		SM	"	"	"	"	"	"	"
AL-38-0.5		SM	silty sand w/ gravel	"	"	dry	"	"	fine to coarse gravel
AL-38-1.0		SM	"	"	"	dry	"	"	"
AL-38-2.5		SM	"	"	"	moist	fine	"	fine gravel
AL-38-5.0		SM	"	"	"	"	"	"	"
AL-67-0.5		SM	"	"	"	dry	fine to coarse	"	fine to coarse gravel
AL-67-1.0		SM	"	"	"	moist	"	"	"
AL-67-2.5		SM	"	"	"	"	"	"	"
AL-67a-0.5		SM	"	"	"	dry	"	"	"
AL-83-0.5		ML	silt w/ gravel	"	"	"	v. fine	"	fine gravel
AL-83-1.0		ML	"	"	"	"	"	"	"
AL-83a-0.5		ML	"	"	"	"	"	"	"
AL-83a-1.0		ML	"	"	"	"	"	"	"
AL-60-0.5		SM	silty sand w/ gravel	subrounded	light brown	dry	fine to coarse	"	fine to coarse gravel
AL-60-1.0		SM	"	"	"	"	"	"	"

Notes:

<sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel

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<sup>4</sup> Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)

<sup>5</sup> Non-plastic, Low, Medium, High

<sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor

①

# Soil Sample Log

P/N \_\_\_\_\_

Sample No.	Date	USCS <sup>1</sup> Symbol	Soil Type	Angularity <sup>2</sup>	Color	Moisture <sup>3</sup>	Grain Size <sup>4</sup>	Plasticity <sup>5</sup>	Comments <sup>6</sup>
AL-60-2.5	4/5/17	SM	Silty sand w/gravel and cobbles	rounded	brown	moist	fine to coarse	none	fine gravel to cobbles
AL-60-0.5		SM	silty sandy w/gravel	subrounded	light brown	dry	"	"	fine to coarse gravel
AL-130-0.5		SM	"	"	"	"	"	"	"
AL-130-1.0		SM	"	"	brown	moist	"	"	"
AL-130-0.5		SM	"	"	light brown	dry	"	"	"
AL-130-1.0		SM	"	"	brown	moist	"	"	"

**Notes:**

- <sup>1</sup> SP = Poorly graded sand, SW = Well Graded Sand, SM = Silty Sand, SC, Clayey Sand, ML = silt/sandy silt, CL = lean clay/sandy clay, CH = fat clay/sandy fat clay, OL = organic soil/with sand/with gravel
- <sup>2</sup> Angular, Sub-angular, Sub-rounded, Rounded
- <sup>3</sup> Dry = no moisture, dusty to the touch; Moist = Damp but no visible water; Wet = Visible free water
- <sup>4</sup> Range of particle sizes for sand (coarse, medium, fine) or gravel (coarse or fine)
- <sup>5</sup> Non-plastic, Low, Medium, High
- <sup>6</sup> Other descriptive features about the soil including dilatancy, toughness, or odor

*col*

Boring Location Coordinates  
 I-15 SI/ADL Survey  
 Riverside Co. MP 49.8 - 52.3  
 San Bernardino Co. MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga  
 and Fontana, California

Boring Location	Latitude (degrees N)	Longitude (degrees W)
AL-01	34.0378	117.5499
AL-02	34.0429	117.5499
AL-03	34.0437	117.5506
AL-04	34.0450	117.5498
AL-05	34.0454	117.5509
AL-06	-	-
AL-07	34.0462	117.5495
AL-08	34.0487	117.5510
AL-09	34.0495	117.5503
AL-10	34.0502	117.5500
AL-11	34.0517	117.5491
AL-12	34.0570	117.5456
AL-13	34.0596	117.5448
AL-14	34.0582	117.5452
AL-15	34.0615	117.5444
AL-16	34.0607	117.5447
AL-17	34.0610	117.5454
AL-18	34.0623	117.5454
AL-19	34.0632	117.5453
AL-20	34.0643	117.5454
AL-21	34.0645	117.5447
AL-22	34.0655	117.5455
AL-23	34.0654	117.5453
AL-24	34.0660	117.5456
AL-25	34.0669	117.5469
AL-26	34.0672	117.5476
AL-27	34.0678	117.5470
AL-28	34.0683	117.5466
AL-29	34.0681	117.5452
AL-30	34.0683	117.5446
AL-31	34.0681	117.5427
AL-32	34.0683	117.5431
AL-33	34.0688	117.5456
AL-34	34.0692	117.5455
AL-35	34.0697	117.5446
AL-36	34.0703	117.5446
AL-37	34.0718	117.5446



Boring Location Coordinates  
 I-15 SI/ADL Survey  
 Riverside Co. MP 49.8 - 52.3  
 San Bernardino Co. MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga  
 and Fontana, California

Boring Location	Latitude (degrees N)	Longitude (degrees W)
AL-38	34.0720	117.5444
AL-39	34.0729	117.5445
AL-40	34.0746	117.5452
AL-41	34.0748	117.5445
AL-42	34.0765	117.5445
AL-43	34.0777	117.5445
AL-44	34.0786	117.5456
AL-46	34.0788	117.5445
AL-47	34.0790	117.5452
AL-47	34.0787	117.5460
AL-48	34.0800	117.5445
AL-49	34.0808	117.5452
AL-50	34.0802	117.5441
AL-51	34.0817	117.5452
AL-52	34.0829	117.5451
AL-53	34.0827	117.5444
AL-54	34.0847	117.5451
AL-55	34.0846	117.5445
AL-56	34.0852	117.5451
AL-57	34.0859	117.5451
AL-58	34.0879	117.5450
AL-59	34.0889	117.5449
AL-60	34.0906	117.5446
AL-61	34.0913	117.5439
AL-62	34.0928	117.5440
AL-63	-	-
AL-64	34.0940	117.5436
AL-65	34.0953	117.5424
AL-66	34.0957	117.5427
AL-67	34.0965	117.5417
AL-68	34.0972	117.5419
AL-69	34.0977	117.5409
AL-70	34.0986	117.5402
AL-71	34.0988	117.5408
AL-72	34.1010	117.5380
AL-73	34.1000	117.5397
AL-74	34.1000	117.5391

Boring Location Coordinates  
I-15 SI/ADL Survey  
Riverside Co. MP 49.8 - 52.3  
San Bernardino Co. MP 0.0 - 12.2  
Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga  
and Fontana, California

Boring Location	Latitude (degrees N)	Longitude (degrees W)
AL-75	34.1010	117.5388
AL-76	34.1025	117.5371
AL-77	34.1021	117.5368
AL-78	34.1034	117.5351
AL-79	34.1030	117.5365
AL-80	34.1050	117.5343
AL-81	34.1046	117.5334
AL-82	34.1051	117.5327
AL-83	34.1051	117.5316
AL-84	34.1059	117.5322
AL-85	34.1060	117.5337
AL-86	34.1060	117.5338
AL-87	34.1067	117.5333
AL-88	34.1072	117.5315
AL-89	34.1074	117.5303
AL-90	34.1072	117.5321
AL-91	34.1076	117.5322
AL-92	34.1081	117.5304
AL-93	34.1083	117.5293
AL-94	34.1092	117.5282
AL-95	34.1096	117.5286
AL-96	34.1103	117.5269
AL-97	34.1105	117.5275
AL-98	34.1115	117.5254
AL-99	34.1115	117.5263
AL-100	34.1131	117.5244
AL-101	34.1138	117.5227
AL-102	34.1145	117.5227
AL-103	34.1146	117.5217
AL-104	34.1161	117.5208
AL-105	34.1158	117.5202
AL-106	34.1165	117.5204
AL-107	34.1166	117.5193
AL-108	34.1177	117.5190
AL-109	34.1181	117.5174
AL-110	34.1196	117.5170
AL-111	34.1203	117.5163

Boring Location Coordinates  
 I-15 SI/ADL Survey  
 Riverside Co. MP 49.8 - 52.3  
 San Bernardino Co. MP 0.0 - 12.2  
 Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga  
 and Fontana, California

Boring Location	Latitude (degrees N)	Longitude (degrees W)
AL-112	34.1193	117.5160
AL-113	34.1207	117.5133
AL-114	34.1210	117.5149
AL-115	34.1224	117.5133
AL-116	34.1220	117.5127
AL-117	34.1221	117.5124
AL-118	34.1231	117.5124
AL-119	34.1226	117.5149
AL-120	34.1228	117.5140
AL-121	34.1224	117.5123
AL-122	34.1229	117.5117
AL-123	34.1230	117.5133
AL-124	34.1231	117.5126
AL-125	34.1235	117.5110
AL-126	34.1258	117.5092
AL-127	34.1257	117.5083
AL-128	34.1262	117.5086
AL-129	34.1266	117.5073
AL-130	34.1271	117.5066
AL-131	34.1285	117.5059
AL-132	34.1285	117.5049
AL-133	34.1291	117.5053
AL-134	-	-
AL-135	34.1299	117.5044
AL-136	34.1316	117.5011
AL-137	34.1305	117.5037
AL-138	34.1312	117.5016
AL-139	34.1320	117.5020
AL-140	34.1328	117.4996
AL-141	-	-
EB-1	34.1281	117.5051
EB-2	34.1284	117.5049
RR-1	34.0293	117.5498
RR-2	34.0297	117.5508
RR-3	34.0285	117.5498
RR-4	34.0289	117.5508
RR-5	34.0640	117.5448

Boring Location Coordinates  
I-15 SI/ADL Survey  
Riverside Co. MP 49.8 - 52.3  
San Bernardino Co. MP 0.0 - 12.2  
Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga  
and Fontana, California

Boring Location	Latitude (degrees N)	Longitude (degrees W)
RR-6	34.0640	117.5453
RR-7	34.0901	117.5442
RR-8	34.0923	117.5436
RR-9	34.0924	117.5441
RR-10	34.0925	117.5435
RR-11	34.1246	117.5107
RR-12	34.1246	117.5096
RR-13	34.1247	117.5105
RR-14	34.1247	117.5093

Notes:

- = Location data not available

APPENDIX B

LABORATORY REPORTS

**Enviro - Chem, Inc.**

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

Date: March 22, 2017

Mr. Richard Orr  
Leighton & Associates, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170315-11 through -67**

Dear Mr. Orr:

The **analytical results** for the soil and water samples, received by our lab on March 15, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**Enviro - Chem, Inc.**

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

Date: March 23, 2017

Mr. Richard Orr  
Leighton & Associates, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170316-32 through -97**

Dear Mr. Orr:

The **analytical results** for the soil and water samples, received by our lab on March 16, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL DATE RECEIVED: 03/16/17  
SAMPLING DATE: 03/15/17 DATE ANALYZED: 03/16/17  
REPORT TO: MR. RICHARD ORR DATE REPORTED: 03/23/17

**pH ANALYSIS**  
METHOD: EPA 9045C  
UNIT: pH UNITS

SAMPLE I.D.	LAB I.D.	pH RESULT
<u>AL-42-0.5</u>	<u>170316-48</u>	<u>8.33</u>
<u>AL-42-1.0</u>	<u>170316-49</u>	<u>8.40</u>
<u>AL-42-2.5</u>	<u>170316-50</u>	<u>8.23</u>
<u>AL-42-5.0</u>	<u>170316-51</u>	<u>8.37</u>

**COMMENTS:**

pH ANALYSIS CONDUCTED ON 1:1 SOIL/DEIONIZED WATER EXTRACTION

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555



Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

Matrix:

SOLID/SLUDGE/LIQ

### QA/QC Report

Analysis	Units	Date Analyzed	Sample I.D.	S.R.	Duplicate	% RPD	ACP %RPD
Alkalinity	mg/Kg					0.0%	0-20
Residual Chlorine	mg/Kg					0.0%	0-20
Density	g/mL					0.00%	0-20
EC	umhos/cm					0.00%	0-20
pH	pH units	3/16/2017	170316-51	8.37	8.39	0.24%	0-20
TDS	mg/L					0.00%	0-20
TSS	mg/Kg					0.0%	0-20
Resistivity	ohms					0.0%	0-20
% SOLID	%					0.0%	0-20
BTU	BTU/lb					0.0%	0-20
Salinity	S					0.00%	0-20

%RPD = Relative Percent Difference

ACP %RPD = Acceptable Relative Percent Difference

Analysis	Units	Date Analyzed	Sample I.D.	Spk Conc	S.R.	ACP %RPD	ACP %RC	MS	MS %RC	MSD	MSD %RC	% RPD
Acidity	mg/Kg					0	80-120					
Ammonia as N	mg/Kg			50.0	0.000	0-20	80-120					
MBAS	mg/Kg			6.00	0.0	0-20	80-120					
Chloride	mg/Kg			200	30.0	0-20	80-120					#VALUE!
COD	mg/Kg			500	0.0	0-20	80-120					
Cr VI	mg/Kg	3/9/2017	170308-26	4.0	0.000	0-20	80-120	3.53	88%	3.55	89%	0.5%
Cyanide	mg/Kg			10.0	0.0	0-20	80-120					#VALUE!
Fluoride	mg/Kg			10.0	0.000	0-20	80-120					#REF!
Nitrate as N	mg/Kg			4.0	0.00	0-20	80-120					#VALUE!
Nitrite as N	mg/Kg			4.0	0.00	0-20	80-120					#VALUE!
Oil and Grease	mg/Kg			667	0.0	0-20	80-120					#VALUE!
Phenolics	mg/Kg					0-20	80-120					#VALUE!
Sulfate	mg/Kg			200	0.0	0-20	80-120					#VALUE!
TOTAL Sulfide	mg/Kg			3.00	0.0	0-20	80-120					#VALUE!
TRPH	mg/Kg			667	0.0	0-20	80-120					#VALUE!
Sulfide, Dissolve	mg/Kg			3.00	0.0	0-20	80-120					#VALUE!
EPA 1664A	mg/Kg			500	0.0	0-20	80-120					#VALUE!

S.R. = Sample Results

%RC = Percent Recovery

ACP %RC = Accepted Percent Recovery

Analyst Signature: \_\_\_\_\_

Final Reviewer: \_\_\_\_\_

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

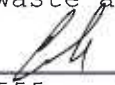
MATRIX: SOIL DATE RECEIVED: 03/16/17  
 SAMPLING DATE: 03/15/17 DATE ANALYZED: 03/17/17  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 03/23/17

EPA 6010B FOR TTLC-LEAD; PAGE 1 OF 4  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
<u>AL-31-0.5</u>	<u>170316-32</u>	<u>4.07</u>	<u>1</u>
<u>AL-31-1.0</u>	<u>170316-33</u>	<u>3.50</u>	<u>1</u>
<u>AL-31-2.5</u>	<u>170316-34</u>	<u>3.11</u>	<u>1</u>
<u>AL-31-5.0</u>	<u>170316-35</u>	<u>3.06</u>	<u>1</u>
<u>AL-32-0.5</u>	<u>170316-36</u>	<u>0.369J</u>	<u>1</u>
<u>AL-32-1.0</u>	<u>170316-37</u>	<u>3.02</u>	<u>1</u>
<u>AL-32-2.5</u>	<u>170316-38</u>	<u>3.29</u>	<u>1</u>
<u>AL-32-5.0</u>	<u>170316-39</u>	<u>4.69</u>	<u>1</u>
<u>AL-39-0.5</u>	<u>170316-40</u>	<u>7.38</u>	<u>1</u>
<u>AL-39-1.0</u>	<u>170316-41</u>	<u>7.54</u>	<u>1</u>
<u>AL-39-2.5</u>	<u>170316-42</u>	<u>16.5</u>	<u>1</u>
<u>AL-39-5.0</u>	<u>170316-43</u>	<u>7.12</u>	<u>1</u>
<u>AL-41-0.5</u>	<u>170316-44</u>	<u>8.93</u>	<u>1</u>
<u>AL-41-1.0</u>	<u>170316-45</u>	<u>6.61</u>	<u>1</u>
<u>AL-41-2.5</u>	<u>170316-46</u>	<u>6.93</u>	<u>1</u>
<u>AL-41-5.0</u>	<u>170316-47</u>	<u>8.05</u>	<u>1</u>
<u>Method Blank</u>	<u>---</u>	<u>ND</u>	<u>1</u>
	<b>MDL</b>	<b>0.084</b>	
	<b>PQL</b>	<b>0.50</b>	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/16/17

SAMPLING DATE: 03/15/17

DATE ANALYZED: 03/17/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/23/17

EPA 6010B FOR TTLC-LEAD; PAGE 2 OF 4  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
<u>AL-43-0.5</u>	<u>170316-52</u>	<u>2.47</u>	<u>1</u>
<u>AL-43-1.0</u>	<u>170316-53</u>	<u>5.59</u>	<u>1</u>
<u>AL-43-2.5</u>	<u>170316-54</u>	<u>4.64</u>	<u>1</u>
<u>AL-43-5.0</u>	<u>170316-55</u>	<u>5.18</u>	<u>1</u>
<u>AL-46-0.5</u>	<u>170316-56</u>	<u>11.6</u>	<u>1</u>
<u>AL-46-1.0</u>	<u>170316-57</u>	<u>5.32</u>	<u>1</u>
<u>AL-46-2.5</u>	<u>170316-58</u>	<u>6.06</u>	<u>1</u>
<u>AL-46-5.0</u>	<u>170316-59</u>	<u>5.55</u>	<u>1</u>
<u>AL-53-0.5</u>	<u>170316-64</u>	<u>5.70</u>	<u>1</u>
<u>AL-53-1.0</u>	<u>170316-65</u>	<u>6.16</u>	<u>1</u>
<u>AL-53-2.5</u>	<u>170316-66</u>	<u>2.69</u>	<u>1</u>
<u>AL-53-5.0</u>	<u>170316-67</u>	<u>3.03</u>	<u>1</u>
<u>AL-153-0.5</u>	<u>170316-68</u>	<u>4.16</u>	<u>1</u>
<u>AL-153-1.0</u>	<u>170316-69</u>	<u>5.91</u>	<u>1</u>
<u>AL-153-2.5</u>	<u>170316-70</u>	<u>6.32</u>	<u>1</u>
<u>AL-153-5.0</u>	<u>170316-71</u>	<u>2.90</u>	<u>1</u>

<b>Method Blank</b>	<b>---</b>	<b>ND</b>	<b>1</b>
	<b>MDL</b>	<b>0.084</b>	
	<b>PQL</b>	<b>0.50</b>	

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected


TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by:   
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PROJECT: **603445.100**


MATRIX: SOIL DATE RECEIVED: 03/16/17  
 SAMPLING DATE: 03/15/17 DATE ANALYZED: 03/17/17  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 03/23/17

EPA 6010B FOR TTLC-LEAD; PAGE 3 OF 4  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-55-0.5	170316-72	2.15	1
AL-55-1.0	170316-73	2.47	1
AL-55-2.5	170316-74	2.09	1
AL-55-5.0	170316-75	2.08	1
AL-54-0.5	170316-77	13.5	1
AL-54-1.0	170316-78	1.96	1
AL-54-2.5	170316-79	1.94	1
AL-54-5.0	170316-80	2.29	1
AL-51-0.5	170316-81	19.3	1
AL-51-1.0	170316-82	10.5	1
AL-51-2.5	170316-83	8.26	1
AL-51-5.0	170316-84	4.94	1
AL-49-0.5	170316-85	5.39	1
AL-49-1.0	170316-86	5.36	1
AL-49-2.5	170316-87	5.49	1
AL-49-5.0	170316-88	5.24	1
AL-47-0.5	170316-89	6.19	1
AL-47-1.0	170316-90	6.10	1
AL-47-2.5	170316-91	4.34	1
AL-47-5.0	170316-92	8.14	1
Method Blank	---	ND	1
	MDL	0.084	
	PQL	0.50	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

### LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/16/17

SAMPLING DATE: 03/15/17

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REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/23/17

EPA 6010B FOR TTLC-LEAD; PAGE 4 OF 4  
UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM


SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
<u>AL-45-0.5</u>	<u>170316-93</u>	<u>6.26</u>	<u>1</u>
<u>AL-45-1.0</u>	<u>170316-94</u>	<u>4.52</u>	<u>1</u>
<u>AL-45-2.5</u>	<u>170316-95</u>	<u>6.01</u>	<u>1</u>
<u>AL-45-5.0</u>	<u>170316-96</u>	<u>5.45</u>	<u>1</u>

Method Blank                      ---                      ND                      1

**MDL**                                      **0.084**  
**PQL**                                      **0.50**

**COMMENTS:**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- STLC Limit for lead = 5 PPM
- \* = STLC analysis is recommended (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

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PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/16/17

SAMPLING DATE: 03/15/17

DATE ANALYZED: 03/17/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/23/17

EPA 6010B FOR TTLC-ARSENIC/LEAD; PAGE 1 OF 2  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	ARSENIC RESULT	DF	LEAD RESULT	DF
AL-42-0.5	170316-48	6.05	1	25.8	1
AL-42-1.0	170316-49	10.6	1	6.61	1
AL-42-2.5	170316-50	6.82	1	5.79	1
AL-42-5.0	170316-51	5.61	1	5.60	1
Method Blank	---	ND	1	ND	1
	MDL	0.248		0.084	
	PQL	0.30		0.50	

**COMMENTS:**

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = DF X PQL

ND = Non-Detected or below the Actual Detection Limit

TTLC = Total Threshold Limit Concentration


STLC = Soluble Threshold Limit Concentration

TTLC Limit for Arsenic = 500 PPM / STLC Limit for Arsenic = 5 PPM

TTLC Limit for lead = 1000 PPM / STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
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 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/16/17

SAMPLING DATE: 03/15/17

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REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/23/17

EPA 6010B FOR TTLC-ARSENIC/LEAD; PAGE 2 OF 2  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	ARSENIC RESULT	DF	LEAD RESULT	DF
AL-48-0.5	170316-60	9.37	1	6.66	1
AL-48-1.0	170316-61	7.92	1	6.66	1
AL-48-2.5	170316-62	6.84	1	5.05	1
AL-48-5.0	170316-63	8.77	1	8.12	1
Method Blank	---	ND	1	ND	1
	MDL	0.248		0.084	
	PQL	0.30		0.50	

**COMMENTS:**

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = DF X PQL

ND = Non-Detected or below the Actual Detection Limit

TTLC = Total Threshold Limit Concentration

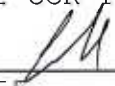
STLC = Soluble Threshold Limit Concentration

TTLC Limit for Arsenic = 500 PPM / STLC Limit for Arsenic = 5 PPM

TTLC Limit for lead = 1000 PPM / STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/17/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170316-36	50.0	101	PASS	1.61	50.0	41.2	79%	40.7	78%	1%
Chromium(Cr)	170316-36	50.0	102	PASS	3.65	50.0	38.3	69%	38.1	69%	1%
Lead(Pb)	170316-36	50.0	105	PASS	0.369	50.0	34.1	67%	33.9	67%	1%

ANALYSIS DATE. : 3/16/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170315-6	0.125	97	PASS	0.036	0.125	0.142	85%	0.146	88%	4%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	FAIL *	FAIL *	PASS	PASS
Lead(Pb)	FAIL *	FAIL *	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control



## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/17/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170316-52	50.0	99	PASS	1.85	50.0	43.2	83%	42.0	80%	3%
Chromium(Cr)	170316-52	50.0	102	PASS	6.59	50.0	45.6	78%	44.4	76%	3%
Lead(Pb)	170316-52	50.0	104	PASS	2.47	50.0	39.1	73%	38.2	71%	2%

ANALYSIS DATE. : 3/16/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170315-6	0.125	97	PASS	0.036	0.125	0.142	85%	0.146	88%	4%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	FAIL *	FAIL *	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/17/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170316-72	50.0	94	PASS	1.27	50.0	41.5	80%	43.2	84%	4%
Chromium(Cr)	170316-72	50.0	103	PASS	9.49	50.0	60.5	102%	61.2	103%	1%
Lead(Pb)	170316-72	50.0	105	PASS	2.15	50.0	46.7	89%	48.7	93%	4%

ANALYSIS DATE. : 3/16/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170315-6	0.125	97	PASS	0.036	0.125	0.142	85%	0.146	88%	4%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	FAIL*	FAIL*	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/17/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170316-95	50.0	99	PASS	8.06	50.0	53.0	90%	54.3	92%	3%
Chromium(Cr)	170316-95	50.0	101	PASS	22.4	50.0	67.6	90%	69.0	93%	3%
Lead(Pb)	170316-95	50.0	103	PASS	6.01	50.0	48.1	84%	49.0	86%	2%

ANALYSIS DATE. : 3/16/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170315-6	0.125	97	PASS	0.036	0.125	0.142	85%	0.146	88%	4%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER

DATE RECEIVED: 03/16/17

SAMPLING DATE: 03/15/17

DATE ANALYZED: 03/20/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/23/17

SAMPLE I.D.: **100-2**

LAB I.D.: 170316-76

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

<b>ELEMENT ANALYZED</b>	<b>SAMPLE RESULT</b>	<b>PQL</b>	<b>MDL</b>	<b>DF</b>	<b>EPA METHOD</b>
Lead (Pb)	ND	0.01	0.004	1	200.7

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**METHOD BLANK REPORT**

CUSTOMER: Leighton & Associates, Inc.  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: WATER

DATE RECEIVED: 03/16/17

SAMPLING DATE: 03/15/17

DATE ANALYZED: 03/20/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/23/17

METHOD BLANK REPOT FOR LAB I.D.: 170316-76

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Lead (Pb)	ND	0.01	0.004	1	200.7

**COMMENTS**

DF = Dilution Factor


MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER

DATE RECEIVED: 03/16/17

SAMPLING DATE: 03/15/17

DATE ANALYZED: 03/20/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/23/17

SAMPLE I.D.: **200-2**

LAB I.D.: 170316-97

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Arsenic (As)	ND	0.01	0.005	1	200.7
Lead (Pb)	ND	0.01	0.004	1	200.7

**COMMENTS**

DF = Dilution Factor


MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER DATE RECEIVED: 03/16/17  
SAMPLING DATE: 03/15/17 DATE ANALYZED: 03/20/17  
REPORT TO: MR. RICHARD ORR DATE REPORTED: 03/23/17

METHOD BLANK REPORT FOR LAB I.D.: 170316-97


**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Arsenic (As)	ND	0.01	0.005	1	200.7
Lead (Pb)	ND	0.01	0.004	1	200.7

**COMMENTS**

DF = Dilution Factor  
MDL = Method Detection Limit  
PQL = Practical Quantitation Limit  
J = Trace Concentration between MDL and PQL  
Actual Detection Limit = PQL X DF  
ND = Below the Actual Detection Limit or non-detected

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

## QA/QC for TLLC Metals Analysis --WATER MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/20/2017

Unit : *mg/L(ppm)*

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Lead(Pb)	170316-97	1.00	105	PASS	0	1.00	0.979	98%	0.967	97%	1%
Silver(Ag)	170316-97	0.10	105	PASS	0	0.10	0.093	93%	0.087	87%	7%
Arsenic(As)	170316-97	1.00	100	PASS	0	1.00	0.972	97%	0.921	92%	5%

ANALYSIS DATE. : 3/13/2017

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170313-2	0.00250	92	PASS	0	0.00250	0.00220	88%	0.00230	92%	4%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Lead(Pb)	PASS	PASS	PASS	PASS
Silver(Ag)	PASS	PASS	PASS	PASS
Arsenic(As)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control



**LABORATORY REPORT**

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 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/16/17

SAMPLING DATE: 03/15/17

DATE ANALYZED: 03/20/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/23/17

**EPA 6010B FOR STLC-LEAD  
 UNIT: mg/L IN THE STLC LEACHATE**

SAMPLE I.D.	LAB I.D.	STLC-LEAD RESULT	DF
AL-42-0.5	170316-48	0.407	1
AL-42-1.0	170316-49	0.046J	1
AL-42-2.5	170316-50	ND	1
AL-42-5.0	170316-51	ND	1
Method Blank	---	ND	1
	MDL	0.02	
	PQL	0.05	

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL


Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

STLC = Soluble Threshold Limit Concentration

mg/L = Milligram Per Liter = PPM

\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --STLC

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/20/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	170317-47	5.00	109	PASS	0.342	5.00	5.25	98%	5.29	99%	1%
Lead(Pb)	170317-47	5.00	105	PASS	0.455	5.00	5.20	95%	5.21	95%	0%
Nickel(Ni)	170317-47	5.00	97	PASS	0.361	5.00	5.06	94%	5.01	93%	1%

ANALYSIS DATE: 3/16/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170314-19	0.0125	96	PASS	0	0.0125	0.0109	87%	0.0112	90%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Nickel(Ni)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_ 

FINAL REVIEWER: \_\_\_\_\_ 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/15/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/16/17  
 DATE EXTRACTED: 03/17/17  
 DATE ANALYZED: 03/17/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **AL-42-0.5**

LAB I.D.: 170316-48

**Organochlorine Pesticides Analysis**

method: EPA 8081A


Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
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 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/15/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/16/17  
 DATE EXTRACTED: 03/17/17  
 DATE ANALYZED: 03/17/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **AL-42-1.0**

LAB I.D.: 170316-49

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

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 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/15/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/16/17  
 DATE EXTRACTED: 03/17/17  
 DATE ANALYZED: 03/17/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **AL-42-2.5**

LAB I.D.: 170316-50

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/15/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/16/17  
 DATE EXTRACTED: 03/17/17  
 DATE ANALYZED: 03/17/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **AL-42-5.0**

LAB I.D.: 170316-51

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

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 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL DATE RECEIVED: 03/16/17  
 SAMPLING DATE: 03/15/17 DATE EXTRACTED: 03/17/17  
 REPORT TO: MR. RICHARD ORR DATE ANALYZED: 03/17/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **AL-48-0.5** LAB I.D.: 170316-60

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/15/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/16/17  
 DATE EXTRACTED: 03/17/17  
 DATE ANALYZED: 03/17/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **AL-48-1.0** LAB I.D.: 170316-61

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555





**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/15/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/16/17  
 DATE EXTRACTED: 03/17/17  
 DATE ANALYZED: 03/17/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **AL-48-2.5**

LAB I.D.: 170316-62

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL DATE RECEIVED: 03/16/17  
 SAMPLING DATE: 03/15/17 DATE EXTRACTED: 03/17/17  
 REPORT TO: MR. RICHARD ORR DATE ANALYZED: 03/17/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **AL-48-5.0**

LAB I.D.: 170316-63

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: \_\_\_\_\_  
 CAL-DHS CERTIFICATE # 1555

**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL DATE RECEIVED: 03/16/17  
 SAMPLING DATE: 03/15/17 DATE EXTRACTED: 03/17/17  
 REPORT TO: MR. RICHARD ORR DATE ANALYZED: 03/17/17  
 DATE REPORTED: 03/23/17


METHOD BLANK REPORT FOR LAB I.D.:  
 170316-48, -49, -50, -51, -60, -61, -62, -63

Organochlorine Pesticides Analysis  
 method: EPA 8081A  
 Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555 \_\_\_\_\_

# Enviro-Chem, Inc.

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

## EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)**

Date Analyzed: **3/17/2017**

Unit: **mg/Kg (ppm)**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.:      170316-51 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00571	<b>114%</b>	0.00574	<b>115%</b>	<b>1%</b>	<b>0-20%</b>	<b>70-130</b>
Aldrin	0.000	0.00500	0.00575	<b>115%</b>	0.00622	<b>124%</b>	<b>8%</b>	<b>0-20%</b>	<b>70-130</b>
4,4-DDE	0.000	0.00500	0.00528	<b>106%</b>	0.00512	<b>102%</b>	<b>3%</b>	<b>0-20%</b>	<b>70-130</b>

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00512	<b>102%</b>	<b>75-125</b>
Aldrin	0.00500	0.00450	<b>90%</b>	<b>75-125</b>
4,4-DDE	0.00500	0.00540	<b>108%</b>	<b>75-125</b>
Dieldrin	0.00500	0.00548	<b>110%</b>	<b>75-125</b>

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		<b>MB</b>	170316-48	170316-49	170316-50	170316-51	170316-60	170316-61	
Tetra-chloro-meta-xylene	50-150	142%	145%	128%	131%	137%	143%	140%	
Decachlorobiphenyl	50-150	88%	66%	55%	62%	59%	58%	60%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		170316-62	170316-63						
Tetra-chloro-meta-xylene	50-150	139%	140%						
Decachlorobiphenyl	50-150	60%	62%						

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene	50-150								
Decachlorobiphenyl	50-150								

S.R. = Sample Result

\* = Surrogate fail due to matrix interference (If Marked)

spk conc = Spike Concentration

Note: **LCS, MS, MSD are in control therefore results are in control.**

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: \_\_\_\_\_

Final Reviewer: \_\_\_\_\_

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER  
 SAMPLING DATE: 03/15/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/16/17  
 DATE EXTRACTED: 03/16/17  
 DATE ANALYZED: 03/20/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **200-2** LAB I.D.: 170316-97

**Organochlorine Pesticides Analysis**

Method: EPA 8081A

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1
PCB-1016	ND	1.00	0.50	1
PCB-1221	ND	1.00	0.50	1
PCB-1232	ND	1.00	0.50	1
PCB-1242	ND	1.00	0.50	1
PCB-1248	ND	1.00	0.50	1
PCB-1254	ND	1.00	0.50	1
PCB-1260	ND	1.00	0.50	1

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555

### METHOD BLANK REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER

SAMPLING DATE: 03/15/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/16/17

DATE EXTRACTED: 03/16/17

DATE ANALYZED: 03/20/17

DATE REPORTED: 03/23/17

METHOD BLANK REPORT FOR LAB I.D.: 170316-97

#### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1
PCB-1016	ND	1.00	0.50	1
PCB-1221	ND	1.00	0.50	1
PCB-1232	ND	1.00	0.50	1
PCB-1242	ND	1.00	0.50	1
PCB-1248	ND	1.00	0.50	1
PCB-1254	ND	1.00	0.50	1
PCB-1260	ND	1.00	0.50	1

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

# EPA 608 QA/QC Report

Matrix: Water/Liquid  
Unit: ug/L

Date Analyzed: 3/20/2017

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**  
**Spiked Sample Lab I.D.: 170316-97 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0	0.500	0.517	103%	0.528	106%	2%	0-20%	70-130
Aldrin	0	0.500	0.540	108%	0.563	113%	4%	0-20%	70-130
4,4-DDE	0	0.500	0.541	108%	0.536	107%	1%	0-20%	70-130

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.500	0.516	103%	75-125
Aldrin	0.500	0.529	106%	75-125
4,4-DDE	0.500	0.519	104%	75-125
Dieldrin	0.500	0.584	117%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		M-BLK	170316-97	170317-64	170317-67				
Tetra-chloro-meta-xylene	50-150	140%	147%	128%	133%				
Decachlorobipneyl	50-150	97%	86%	71%	70%				

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene									
Decachlorobipneyl									

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result  
 spk conc = Spike Concentration  
 %REC = Percent Recovery  
 ACP %RPD = Acceptable Percent RPD Range  
 ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By:   
 Final Reviewer: 

\* = Surrogate fail due to matrix interference  
 Note: LCS, MS, MSD are in control therefore results are in control.

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	60108 Pb					Misc./PO# Sample red cap end of tubes

SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS	
AL-31-0.5	170316-32	3/15/17	0946	Soil	1		ice	X						
AL-31-1.0	-33		0945		1	Pt		X						
AL-31-2.5	-34		0944					X						
AL-31-5.0	-35		0943					X						
AL-32-0.5	-36		1001					X						
AL-32-1.0	-37		1000					X						
AL-32-2.5	-38		0958					X						
AL-32-5.0	-39		0956					X						
AL-39-0.5	-40		1016					X						
AL-39-1.0	-41		1018					X						
AL-39-2.5	-42		1022					X						
AL-39-5.0	-43		1023					X						
AL-41-0.5	-44		1030					X						
AL-41-1.0	-45		1031					X						
AL-41-2.5	-46		1035					X						

Company Name: <i>Leighton Consulting</i>	Project Contact: <i>Richard Orr</i>	Sampler's Signature: <i>[Signature]</i>
Address: <i>10532 Acadia St Ste B6</i>	Tel: <i>(909) 484-2205</i>	Project Name/ID: <i>603445-100</i>
City/State/Zip: <i>Rancho Cucamonga CA 91730</i>	Fax/Email: <i>(909) 484-2170</i>	

Relinquished by: <i>[Signature]</i>	Received by: <i>Richard Orr</i>	Date & Time: <i>3/16/17</i>	Instructions for Sample Storage After Analysis: <input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days) <input type="checkbox"/> Other:
Relinquished by: <i>Richard Orr</i>	Received by: <i>[Signature]</i>	Date & Time: <i>3/16/17</i>	
Relinquished by:	Received by:	Date & Time: <i>10/27/10</i>	

**CHAIN OF CUSTODY RECORD**

Date: 3/15/17

WHITE WITH SAMPLE - YELLOW TO CLIENT



**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS		
AL-41-5.0	170316-47	3/15/17	1039	Soil	1		100	X							
AL-42-0.5	48		1048					X	X	X	X	X			
AL-42-1.0	49		1050					X	X	X	X	X			
AL-42-2.5	50		1055					X	X	X	X	X			
AL-42-5.0	51		1057					X	X	X	X	X			
AL-43-0.5	52		1114					X							
AL-43-1.0	53		1113					X							
AL-43-2.5	54		1113					X							
AL-43-5.0	55		1111					X							
AL-46-0.5	56		1128					X							
AL-46-1.0	57		1127					X							
AL-46-2.5	58		1125					X							
AL-46-5.0	59		1123					X	X						
AL-48-0.5	60		1142					X	X	X					
AL-48-1.0	61		1141					X	X	X					

Misc./IPO#  
 Sample from red cap end

6010B Pb  
 6010B As  
 8081A  
 PH  
 5710 Pb  
 CA WET

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/16/17 9:20</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/16/17 10:30</u>	<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days) <input type="checkbox"/> Other:		
Relinquished by:	Received by:	Date & Time:			

**CHAIN OF CUSTODY RECORD**

Date: 3/15/17

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other: \_\_\_\_\_

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	6010B Pb	6010B As	8081A	Misc./PO# Sample from red cap end
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SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required						COMMENTS
		DATE	TIME											
AL-48-2.5	170316-62	3/15/17	1140	Soil	1	ice	X	X	X					
<del>AL-48-5.0</del>	-63		1138				X	X	X					
AL-53-0.5	-64		1156				X							
AL-53-1.0	-65		1159				X							
AL-53-2.5	-66		1154				X							
AL-53-5.0	-67		1153				X							
AL-53-0.5	-68		1203				X							
AL-53-1.0	-69		1201				X							
AL-53-2.5	-70		1200				X							
AL-53-5.0	-71		1158				X							
AL-55-0.5	-72		1220				X							
AL-55-1.0	-73		1210				X							
AL-55-2.5	-74		1216				X							
AL-55-5.0	-75		1215				X							
100-2	-76		1445	Water			X							

Company Name: <b>Leighton Consulting</b>	Project Contact: <b>Richard Orr</b>	Sampler's Signature: <i>[Signature]</i>
Address: <b>10532 Acacia St Ste 136</b>	Tel: <b>(909) 484-2205</b>	Project Name/ID: <b>603445-100</b>
City/State/Zip: <b>Rancho Cucamonga, CA 91730</b>	Fax/Email: <b>(909) 484-2170</b>	
Relinquished by: <i>[Signature]</i>	Received by: <b>Pei-Chun Su</b>	Date & Time: <b>3/16/17 09:20</b>
Relinquished by: <b>Richard Orr</b>	Received by: <i>[Signature]</i>	Date & Time: <b>3/15/17 10:30</b>
Relinquished by: _____	Received by: _____	Date & Time: _____

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other: \_\_\_\_\_

**CHAIN OF CUSTODY RECORD**

Date: 3/15/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS	
		DATE	TIME										
AL-54-0.5	170316-77	3/15/17	1326	soil	1		ice	X					
AL-54-1.0	-78		1324					X					
AL-54-2.5	-79		1323					X					
AL-54-5.0	-80		1322					X					
AL-51-0.5	-81		1336					X					
AL-51-1.0	-82		1337					X					
AL-51-2.5	-83		1338					X					
AL-51-5.0	-84		1341					X					
AL-49-0.5	-85		1405					X					
AL-49-1.0	-86		1404					X					
AL-49-2.5	-87		1402					X					
AL-49-5.0	-88		1400					X					
AL-47-0.5	-89		1420					X					
AL-47-1.0	-90		1419					X					
AL-47-2.5	-91		1416					X					

*6010 B Pb*

Misc./IPO#  
*Sample from red cap end*

Company Name: <i>Beighton Consulting</i>	Project Contact: <i>Richard Orr</i>	Sampler's Signature: <i>[Signature]</i>
Address: <i>10532 Acacia St Ste B6</i>	Tel: <i>(909) 484-2205</i>	Project Name/ID: <i>603445-100</i>
City/State/Zip: <i>Rancho Cucamonga, CA 91730</i>	Fax/Email: <i>(909) 484-2170</i>	

Relinquished by: <i>[Signature]</i>	Received by: <i>Richard Orr</i>	Date & Time: <i>3/16/17 9:20</i>
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: <i>3/16/17 10:20</i>
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of    Return to Client    Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/15/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week Standard  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required							COMMENTS	
		DATE	TIME					6010 B Pb	6010 As	8081A						
AL-47-5.0	170316-P2	3/15/17	1414	Soil	1		Ice	X								
AL-45-0.5	-P3		1437					X								
AL-45-1.0	-P4		1435					X								
AL-45-2.5	-P5		1434					X								
AL-45-5.0	-P6		1433					X								
ZOO-2	-P7		1444	Water	2		HNO3/Ice	X	X	X						

Company Name: <u>Geighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/16/17 9:20</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/16/17 10:30</u>	<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="checkbox"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 3/15/17

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

SAMPLING DATE: 03/14/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/15/17

DATE ANALYZED: 03/15/17

DATE REPORTED: 03/22/17

**pH ANALYSIS**  
**METHOD: EPA 9045C**  
**UNIT: pH UNITS**

<b>SAMPLE I.D.</b>	<b>LAB I.D.</b>	<b>pH RESULT</b>
<u>AL-12-0.5</u>	<u>170315-27</u>	<u>8.07</u>
<u>AL-12-1.0</u>	<u>170315-28</u>	<u>8.12</u>
<u>AL-12-2.5</u>	<u>170315-29</u>	<u>7.53</u>
<u>AL-12-5.0</u>	<u>170315-30</u>	<u>7.44</u>
<u>AL-112-0.5</u>	<u>170315-31</u>	<u>7.90</u>
<u>AL-112-1.0</u>	<u>170315-32</u>	<u>8.23</u>
<u>AL-112-2.5</u>	<u>170315-33</u>	<u>7.65</u>
<u>AL-112-5.0</u>	<u>170315-34</u>	<u>7.74</u>

**COMMENTS:**

pH ANALYSIS CONDUCTED ON 1:1 SOIL/DEIONIZED WATER EXTRACTION

DATA REVIEWED AND APPROVED BY: \_\_\_\_\_  
CAL-DHS ELAP CERTIFICATE No.: 1555

*A*

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

Matrix:

SOLID/SLUDGE/LIQ

### QA/QC Report

Analysis	Units	Date Analyzed	Sample I.D.	S.R.	Duplicate	% RPD	ACP %RPD
Alkalinity	mg/Kg					0.0%	0-20
Residual Chlorine	mg/Kg					0.0%	0-20
Density	g/mL					0.00%	0-20
EC	umhos/cm					0.00%	0-20
	pH units	3/15/2017	170315-34	7.74	7.77	0.39%	0-20
TDS	mg/L					0.00%	0-20
TSS	mg/Kg					0.0%	0-20
Resistivity	ohms					0.0%	0-20
% SOLID	%					0.0%	0-20
BTU	BTU/lb					0.0%	0-20
Salinity	S					0.00%	0-20

%RPD = Relative Percent Difference

ACP %RPD = Acceptable Relative Percent Difference

Analysis	Units	Date Analyzed	Sample I.D.	Spk Conc	S.R.	ACP %RPD	ACP %RC	MS	MS %RC	MSD	MSD %RC	% RPD
Acidity	mg/Kg					0	80-120					
Ammonia as N	mg/Kg			50.0	0.000	0-20	80-120					
MBAS	mg/Kg			6.00	0.0	0-20	80-120					
Chloride	mg/Kg			200	30.0	0-20	80-120					#VALUE!
COD	mg/Kg			500	0.0	0-20	80-120					
Cr VI	mg/Kg	3/9/2017	170308-26	4.0	0.000	0-20	80-120	3.53	88%	3.55	89%	0.5%
Cyanide	mg/Kg			10.0	0.0	0-20	80-120					#VALUE!
Fluoride	mg/Kg			10.0	0.000	0-20	80-120					#REF!
Nitrate as N	mg/Kg			4.0	0.00	0-20	80-120					#VALUE!
Nitrite as N	mg/Kg			4.0	0.00	0-20	80-120					#VALUE!
Oil and Grease	mg/Kg			667	0.0	0-20	80-120					#VALUE!
Phenolics	mg/Kg					0-20	80-120					#VALUE!
Sulfate	mg/Kg			200	0.0	0-20	80-120					#VALUE!
TOTAL Sulfide	mg/Kg			3.00	0.0	0-20	80-120					#VALUE!
TRPH	mg/Kg			667	0.0	0-20	80-120					#VALUE!
Sulfide, Dissolve	mg/Kg			3.00	0.0	0-20	80-120					#VALUE!
EPA 1664A	mg/Kg			500	0.0	0-20	80-120					#VALUE!

S.R. = Sample Results

%RC = Percent Recovery

ACP %RC = Accepted Percent Recovery

Analyst Signature: \_\_\_\_\_



Final Reviewer: \_\_\_\_\_



Enviro - Chem, Inc.

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

LABORATORY REPORT

CUSTOMER: Leighton & Associates, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: SOIL

DATE RECEIVED: 03/15/17

SAMPLING DATE: 03/14/17

DATE ANALYZED: 03/16/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/22/17

EPA 6010B FOR TTLC-LEAD; PAGE 1 OF 3
UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

Table with 4 columns: SAMPLE I.D., LAB I.D., TTLC-LEAD RESULT, DF. Rows include samples AL-1-0.5 through AL-7-5.0, Method Blank, MDL (0.084), and PQL (0.50).

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
STLC Limit for lead = 5 PPM
\* = STLC analysis is recommended (if marked)
\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/15/17

SAMPLING DATE: 03/14/17

DATE ANALYZED: 03/16/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/22/17

EPA 6010B FOR TTLC-LEAD; PAGE 2 OF 3  
UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-13-0.5	170315-35	3.25	1
AL-13-1.0	170315-36	4.75	1
AL-13-2.0	170315-37	4.26	1
AL-13-5.0	170315-38	2.08	1
AL-14-0.5	170315-39	5.36	1
AL-14-1.0	170315-40	1.97	1
AL-14-2.5	170315-41	1.95	1
AL-14-5.0	170315-42	3.17	1
AL-15-0.5	170315-43	26.0	1
AL-15-1.0	170315-44	4.46	1
AL-15-2.5	170315-45	6.42	1
AL-15-5.0	170315-46	6.33	1
AL-16-0.5	170315-47	21.8	1
AL-16-1.0	170315-48	11.1	1
AL-16-2.5	170315-49	4.42	1
AL-16-5.0	170315-50	5.80	1
Method Blank	---	ND	1
	MDL	0.084	
	PQL	0.50	

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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



**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/15/17

SAMPLING DATE: 03/14/17

DATE ANALYZED: 03/16/17

REPORT TO: MR. RICHARD ORR


DATE REPORTED: 03/22/17

EPA 6010B FOR TTLC-LEAD; PAGE 3 OF 3  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-21-0.5	170315-51	5.73	1
AL-21-1.0	170315-52	4.04	1
AL-21-2.5	170315-53	2.48	1
AL-21-5.0	170315-54	3.34	1
AL-30-0.5	170315-56	18.0	1
AL-30-1.0	170315-57	2.64	1
AL-30-2.5	170315-58	4.38	1
AL-30-5.0	170315-59	3.52	1
AL-35-0.5	170315-60	2.81	1
AL-35-1.0	170315-61	3.89	1
AL-35-2.5	170315-62	3.61	1
AL-35-5.0	170315-63	3.74	1
AL-36-0.5	170315-64	9.46	1
AL-36-1.0	170315-65	8.03	1
AL-36-2.5	170315-66	5.14	1
AL-36-5.0	170315-67	3.93	1
Method Blank	---	ND	1
	MDL	0.084	
	PQL	0.50	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/15/17

SAMPLING DATE: 03/14/17

DATE ANALYZED: 03/16/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/22/17

EPA 6010B FOR TTLC-ARSENIC/LEAD  
UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	ARSENIC RESULT	DF	LEAD RESULT	DF
AL-12-0.5	170315-27	1.84	1	7.64	1
AL-12-1.0	170315-28	0.843	1	2.20	1
AL-12-2.5	170315-29	0.969	1	3.41	1
AL-12-5.0	170315-30	0.527	1	3.18	1
AL-112-0.5	170315-31	0.827	1	4.14	1
AL-112-1.0	170315-32	1.10	1	4.52	1
AL-112-2.5	170315-33	0.670	1	2.50	1
AL-112-5.0	170315-34	0.827	1	4.14	1
Method Blank	---	ND	1	ND	1
	MDL	0.248		0.084	
	PQL	0.30		0.50	

**COMMENTS:**

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = DF X PQL

ND = Non-Detected or below the Actual Detection Limit

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

TTLC Limit for Arsenic = 500 PPM / STLC Limit for Arsenic = 5 PPM

TTLC Limit for lead = 1000 PPM / STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: \_\_\_\_\_

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/16/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170315-15	50.0	99	PASS	2.25	50.0	44.3	84%	41.9	79%	6%
Chromium(Cr)	170315-15	50.0	105	PASS	10.5	50.0	53.6	86%	51.7	82%	5%
Lead(Pb)	170315-15	50.0	108	PASS	7.83	50.0	49.1	83%	47.5	79%	4%

ANALYSIS DATE. : 3/15/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170314-28	0.125	98	PASS	0	0.125	0.108	86%	0.106	85%	2%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/16/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170315-35	50.0	99	PASS	2.38	50.0	43.0	81%	44.1	83%	3%
Chromium(Cr)	170315-35	50.0	103	PASS	13.7	50.0	58.4	89%	59.8	92%	3%
Lead(Pb)	170315-35	50.0	107	PASS	3.25	50.0	45.5	85%	46.6	87%	3%

ANALYSIS DATE. : 3/15/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170314-28	0.125	98	PASS	0	0.125	0.108	86%	0.106	85%	2%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: 

FINAL REVIEWER: 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/16/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170315-58	50.0	98	PASS	3.05	50.0	42.6	79%	44.6	83%	5%
Chromium(Cr)	170315-58	50.0	108	PASS	10.4	50.0	58.7	97%	58.5	96%	0%
Lead(Pb)	170315-58	50.0	112	PASS	4.38	50.0	48.8	89%	53.0	97%	9%

ANALYSIS DATE. : 3/15/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170314-28	0.125	98	PASS	0	0.125	0.108	86%	0.106	85%	2%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445.100**

MATRIX:WATER                                      DATE RECEIVED:03/15/17  
SAMPLING DATE:03/14/17                                      DATE ANALYZED:03/16/17  
REPORT TO:MR. RICHARD ORR                                      DATE REPORTED:03/22/17

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SAMPLE I.D.: **100-1**                                      LAB I.D.: **170315-55**

---

**TOTAL METALS ANALYSIS**  
**UNIT: mg/L = MILLIGRAM PER LITER = PPM**

---

<b>ELEMENT ANALYZED</b>	<b>SAMPLE RESULT</b>	<b>PQL</b>	<b>MDL</b>	<b>DF</b>	<b>EPA METHOD</b>
Lead (Pb)	ND	0.01	0.004	1	200.7

---

**COMMENTS**

DF = Dilution Factor  
MDL = Method Detection Limit  
PQL = Practical Quantitation Limit  
J = Trace Concentration between MDL and PQL  
Actual Detection Limit = PQL X DF  
ND = Below the Actual Detection Limit or non-detected

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

**Enviro - Chem, Inc.**

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**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445.100**

MATRIX: WATER

SAMPLING DATE: 03/14/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/15/17

DATE ANALYZED: 03/16/17

DATE REPORTED: 03/22/17

METHOD BLANK REPOT FOR LAB I.D.: 170315-55

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Lead (Pb)	ND	0.01	0.004	1	200.7

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for TTLC Metals Analysis --WATER MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/16/2017

Unit : mg/L(ppm)

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Lead(Pb)	170314-50	1.00	109	PASS	0	1.00	0.961	96%	0.965	97%	0%
Silver(Ag)	170314-50	0.10	88	PASS	0	0.10	0.091	91%	0.093	93%	2%
Zinc(Zn)	170314-50	1.00	110	PASS	0.091	1.00	1.04	95%	1.06	97%	2%

ANALYSIS DATE. : 3/13/2017

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170313-2	0.00250	92	PASS	0	0.00250	0.00220	88%	0.00230	92%	4%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Lead(Pb)	PASS	PASS	PASS	PASS
Silver(Ag)	PASS	PASS	PASS	PASS
Zinc(Zn)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST:  \_\_\_\_\_

FINAL REVIEWER:  \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control



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LABORATORY REPORT

CUSTOMER: Leighton & Associates, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: SOIL

DATE RECEIVED: 03/15/17

SAMPLING DATE: 03/14/17

DATE ANALYZED: 03/17/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/22/17

EPA 6010B FOR STLC-LEAD
UNIT: mg/L IN THE STLC LEACHATE

Table with 4 columns: SAMPLE I.D., LAB I.D., STLC-LEAD RESULT, DF. Rows include samples AL-12-0.5 through AL-30-5.0 with corresponding results and dilution factors.

Method Blank --- ND 1

MDL 0.02
PQL 0.05

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
STLC = Soluble Threshold Limit Concentration
mg/L = Milligram Per Liter = PPM
\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis -STLC

**Matrix Spike/ Matrix Spike Duplicate/ LCS :**

ANALYSIS DATE: 3/17/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Lead(Pb)	170315-58	5.00	104	PASS	0.057	5.00	4.56	90%	4.64	92%	2%

ANALYSIS DATE:

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD

**MS/MSD Status:**

Analysis	%MS	%MSD	%LCS	%RPD
Lead(Pb)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST: \_\_\_\_\_ 

FINAL REVIEWER: \_\_\_\_\_ 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## LABORATORY REPORT

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Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/14/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/15/17  
DATE EXTRACTED: 03/16/17  
DATE ANALYZED: 03/16/17  
DATE REPORTED: 03/22/17

SAMPLE I.D.: **AL-12-0.5**

LAB I.D.: 170315-27

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	0.007	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



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**LABORATORY REPORT**

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Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/14/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/15/17  
DATE EXTRACTED: 03/16/17  
DATE ANALYZED: 03/16/17  
DATE REPORTED: 03/22/17

SAMPLE I.D.: **AL-12-1.0**

LAB I.D.: 170315-28

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	0.008	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit


PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555

  
\_\_\_\_\_

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Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/14/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/15/17  
DATE EXTRACTED: 03/16/17  
DATE ANALYZED: 03/16/17  
DATE REPORTED: 03/22/17

SAMPLE I.D.: **AL-12-2.5**

LAB I.D.: 170315-29

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

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Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/14/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/15/17  
DATE EXTRACTED: 03/16/17  
DATE ANALYZED: 03/16/17  
DATE REPORTED: 03/22/17

SAMPLE I.D.: **AL-12-5.0**

LAB I.D.: 170315-30

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
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## LABORATORY REPORT

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PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/14/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/15/17  
DATE EXTRACTED: 03/16/17  
DATE ANALYZED: 03/16/17  
DATE REPORTED: 03/22/17

SAMPLE I.D.: **AL-112-0.5**

LAB I.D.: 170315-31

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	10
alpha-BHC	ND	0.001	0.0001	10
beta-BHC	ND	0.001	0.0001	10
gamma-BHC (Lindane)	ND	0.001	0.0001	10
delta-BHC	ND	0.001	0.0001	10
alpha-Chlordane	ND	0.001	0.0001	10
gamma-Chlordane	ND	0.001	0.0001	10
Technical Chlordane	ND	0.005	0.0005	10
4,4'-DDD	ND	0.001	0.0002	10
4,4'-DDE	0.041	0.001	0.0001	10
4,4'-DDT	ND	0.001	0.0001	10
Dieldrin	ND	0.001	0.0002	10
Endosulfan I	ND	0.001	0.0002	10
Endosulfan II	ND	0.001	0.0002	10
Endosulfan Sulfate	ND	0.001	0.0001	10
Endrin	ND	0.001	0.0001	10
Endrin Aldehyde	ND	0.001	0.0001	10
Endrin Ketone	ND	0.001	0.0001	10
Heptachlor Epoxide	ND	0.001	0.0001	10
Heptachlor	ND	0.001	0.0001	10
Methoxychlor	ND	0.001	0.0001	10
Toxaphene	ND	0.020	0.0100	10

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555

  
\_\_\_\_\_

## LABORATORY REPORT

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Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/14/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/15/17  
DATE EXTRACTED: 03/16/17  
DATE ANALYZED: 03/16/17  
DATE REPORTED: 03/22/17

SAMPLE I.D.: **AL-112-1.0**

LAB I.D.: 170315-32

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	0.005	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555





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**LABORATORY REPORT**

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PROJECT: **603445.100**

DATE RECEIVED: 03/15/17  
DATE EXTRACTED: 03/16/17  
DATE ANALYZED: 03/16/17  
DATE REPORTED: 03/22/17

MATRIX: SOIL  
SAMPLING DATE: 03/14/17  
REPORT TO: MR. RICHARD ORR

SAMPLE I.D.: **AL-112-2.5**

LAB I.D.: 170315-33

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



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**LABORATORY REPORT**

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Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/14/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/15/17  
DATE EXTRACTED: 03/16/17  
DATE ANALYZED: 03/16/17  
DATE REPORTED: 03/22/17

SAMPLE I.D.: **AL-112-5.0**

LAB I.D.: 170315-34

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit


PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



**Enviro - Chem, Inc.**

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

**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/14/17  
REPORT TO: MR. RICHARD ORR  
DATE RECEIVED: 03/15/17  
DATE EXTRACTED: 03/16/17  
DATE ANALYZED: 03/16/17  
DATE REPORTED: 03/22/17

METHOD BLANK REPORT FOR LAB I.D.: 170315-27 THROUGH -34

**Organochlorine Pesticides Analysis**  
method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
MDL = Method Detection Limit  
PQL = Practical Quantitation Limit  
Actual Detection Limit = PQL X DF  
J = Trace Concentration between MDL and PQL  
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



# Enviro-Chem, Inc.

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

## EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)**

Date Analyzed: **3/16/2017**

Unit: **mg/Kg (ppm)**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.:      170315-30 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00504	<b>101%</b>	0.00540	<b>108%</b>	<b>7%</b>	<b>0-20%</b>	<b>70-130</b>
Aldrin	0.000	0.00500	0.00472	<b>94%</b>	0.00500	<b>100%</b>	<b>6%</b>	<b>0-20%</b>	<b>70-130</b>
4,4-DDE	0.000	0.00500	0.00538	<b>108%</b>	0.00522	<b>104%</b>	<b>3%</b>	<b>0-20%</b>	<b>70-130</b>

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00457	<b>91%</b>	<b>75-125</b>
Aldrin	0.00500	0.00429	<b>86%</b>	<b>75-125</b>
4,4-DDE	0.00500	0.00495	<b>99%</b>	<b>75-125</b>
Dieldrin	0.00500	0.00503	<b>101%</b>	<b>75-125</b>

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		MB	170315-27	170315-28	170315-29	170315-30	170315-31	170315-32	
Tetra-chloro-meta-xylene	50-150	144%	149%	146%	137%	149%	132%	131%	
Decachlorobiphenyl	50-150	84%	73%	72%	71%	71%	50%	52%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		170315-33	170315-34						
Tetra-chloro-meta-xylene	50-150	148%	140%						
Decachlorobiphenyl	50-150	59%	54%						

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene	50-150								
Decachlorobiphenyl	50-150								

S.R. = Sample Result

\* = Surrogate fail due to matrix interference (If Marked)


spk conc = Spike Concentration

**Note: LCS, MS, MSD are in control therefore results are in control.**

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required								COMMENTS	
AL-1-0.5	170315-11	3/14/12	0930	Soil	1	pk	ice	X									
AL-1-1.0	-12		0932					X									
AL-1-2.5	-13		0936					X									
AL-1-5.0	-14		0937					X									
AL-2-0.5	-15		0951					X									
AL-2-1.0	-16		0956					X									
AL-2-2.5	-17		0958					X									
AL-2-5.0	-18		1000					X									
AL-6-0.5	-19		1013					X									
AL-6-1.0	-20		1015					X									
AL-6-2.5	-21		1019					X									
AL-6-5.0	-22		1020					X									
AL-7-0.5	-23		1040					X									
AL-7-1.0	-24		1043					X									
AL-7-2.5	-25		1045					X									

Company Name: *Lighten Consulting*  
 Address: *10632 Acacia St Ste B6*  
 City/State/Zip: *Rancho Cucamonga, CA 91730*

Project Contact: *Richard Orr*  
 Tel: *(909) 484-2205*  
 Fax/Email: *(909) 484-2170*

Sampler's Signature: *[Signature]*  
 Project Name/ID: *603445-100*

Relinquished by: *[Signature]*  
 Relinquished by: *Pei-Chan Su*  
 Relinquished by:

Received by: *Pei-Chan Su*  
 Received by: *[Signature]*  
 Received by:

Date & Time: *3/15/12 09:30*  
 Date & Time: *3/13/12 11:44*  
 Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/14/12

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)
- Other:

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	6010 Pb	6010 As	STLC Pb WET	8081A	PH	Misc./PO#
				Analysis Required					

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	6010 Pb	6010 As	STLC Pb WET	8081A	PH	COMMENTS
AL-7-5.0	170315-26	3/14/17	1047	Soil	1	100	X						
AL-12-0.5	-27		1123				X	X	X	X	X		
AL-12-1.0	-28		1125				X	X	X	X	X		
AL-12-2.5	-29		1129				X	X	X	X	X		
AL-12-5.0	-30		1130				X	X	X	X	X		
AL-12-0.5	-31		1133				X	X	X	X	X		
AL-112-1.0	-32		1135				X	X	X	X	X		
AL-112-2.5	-33		1138				X	X	X	X	X		
AL-112-5.0	-34		1139				X	X	X	X	X		
AL-13-0.5	-35		1151				X						
AL-13-1.0	-36		1153				X						
AL-13-2.5	-37		1155				X						
AL-13-5.0	-38		1157				X						
AL-14-0.5	-39		1233				X						
AL-14-1.0	-40		1234				X						

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Aracia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445.100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91750</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>Pei-Chun Su</u>	Date & Time: <u>3/15/17 9:30</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>Pei-Chun Su</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/15/17 11:40</u>	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="radio"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 3/14/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)
- Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS							
		DATE	TIME																						
AL-14-2.5	170315-41		1235	soil	1		100	X																	
AL-14-5.0	-42		1238					X																	
AL-15-0.5	-43		1246					X																	
AL-15-1.0	-44		1247					X																	
AL-15-2.5	-45		1250					X																	
AL-15-5.0	-46		1253					X																	
AL-16-0.5	-47		1322					X																	
AL-16-1.0	-48		1325					X																	
AL-16-2.5	-49		1327					X																	
AL-16-5.0	-50		1328					X																	
AL-21-0.5	-51		1345					X																	
AL-21-1.0	-52		1348					X																	
AL-21-2.5	-53		1350					X																	
AL-21-5.0	-54		1352					X																	
100-1	-55		1521	water	1			X																	

60105 P6

Company Name:

Leighton Consulting

Address: 10532 Acacia St Ste 136

City/State/Zip: Rancho Cucamonga, CA 91730

Relinquished by:

*[Signature]*

Relinquished by:

*Pa-Chan Su*

Relinquished by:

Project Contact:

Richard Orr

Tel: (909) 484-2205

Fax/Email: (909) 484-2170

Sampler's Signature:

*[Signature]*

Project Name/ID:

603455.100

Received by:

*Pa-Chan Su*

Received by:

*WJP*

Received by:

Date & Time:

3/15/17 9:30

Date & Time:

3/15/17 11:14

Date & Time:

Instructions for Sample Storage After Analysis:

- Dispose of
- Return to Client
- Store (30 Days)
- Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/14/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required		COMMENTS
								Gold Pb	STLC Pb CA WET	
AL-30-0.5	1703/5-56		1407	Soil	1	icc	X	X		
AL-30-1.0	-57		1409				X	X		
AL-30-2.5	-58		1412				X	X		
AL-30-5.0	-59		1414				X	X		
AL-35-0.5	-60		1424				X			
AL-35-1.0	-61		1425				X			
AL-35-2.5	-62		1428				X			
AL-35-5.0	-63		1429				X			
AL-36-0.5	-64		1444				X			
AL-36-1.0	-65		1445				X			
AL-36-2.5	-66		1447				X			
AL-36-5.0	-67		1449				X			

Company Name: ~~Richard Orr~~ Leighton Consulting  
 Address: 10532 Acacia St Ste B6  
 City/State/Zip:

Project Contact: Richard Orr  
 Tel: (909) 484-2205  
 Fax/Email: (909) 484-2170

Sampler's Signature: *[Signature]*  
 Project Name/ID: 603445.100

Relinquished by: *[Signature]*  
 Relinquished by: Pei-Chun Su  
 Relinquished by:

Received by: Pei-Chun Su  
 Received by: *[Signature]*  
 Received by:

Date & Time: 3/15/19 9:30  
 Date & Time: 3/15/19 11:40  
 Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/15/19

WHITE WITH SAMPLE - YELLOW TO CLIENT



**Enviro - Chem, Inc.**

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

Date: April 3, 2017

Mr. Richard Orr  
Leighton & Associates, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170317-2 through -65**

Dear Mr. Orr:

The **additional STLC-Pb results** for the soil and water samples, received by our lab on March 17, 2017, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER

DATE RECEIVED: 03/17/17

SAMPLING DATE: 03/16/17

DATE ANALYZED: 03/31/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

**EPA 6010B FOR STLC DI-LEAD  
UNIT: mg/L IN THE STLC LEACHATE**

SAMPLE I.D.	LAB I.D.	STLC DI-LEAD RESULT	DF
AL-26-0.5	170317-41	ND	1
Method Blank	---	ND	1
	MDL	0.02	
	PQL	0.05	

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF


ND = Below the Actual Detection Limit or non-detected

STLC = Soluble Threshold Limit Concentration

mg/L = Milligram Per Liter = PPM

**Extraction performed using DI Water**

\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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



Jessica Lin &lt;curt.envirocheminc@gmail.com&gt;

---

**603445.100 (03/16/2017 Samples)**

---

Richard Orr &lt;rorr@leightongroup.com&gt;

Wed, Mar 29, 2017 at 1:17 PM

To: "Curtis B. Desilets" &lt;curt.envirocheminc@gmail.com&gt;, Zachary Freeman &lt;zfreeman@leightongroup.com&gt;

Please run AL-26-0.5 for DI-WET on normal TAT.

170317.41

(DI WATER STILL)

Regards,  
Richard Orr

Geotechnical | Geoenvironmental | Materials Testing

**SOLUTIONS YOU CAN BUILD ON**

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**From:** Curtis B. Desilets [mailto:curt.envirocheminc@gmail.com]**Sent:** Wednesday, March 29, 2017 12:59 PM**To:** Zachary Freeman**Cc:** Richard Orr

[Quoted text hidden]

[Quoted text hidden]

**Enviro - Chem, Inc.**

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

Date: March 23, 2017

Mr. Richard Orr  
Leighton & Associates, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170317-2 through -65**

Dear Mr. Orr:

The **analytical results** for the soil and water samples, received by our lab on March 17, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/17/17

SAMPLING DATE: 03/16/17

DATE ANALYZED: 03/17/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/23/17

**pH ANALYSIS**  
**METHOD: EPA 9045C**  
**UNIT: pH UNITS**

<b>SAMPLE I.D.</b>	<b>LAB I.D.</b>	<b>pH RESULT</b>
<u>AL-25-0.5</u>	<u>170317-45</u>	<u>8.21</u>
<u>AL-25-1.0</u>	<u>170317-45A</u>	<u>8.37</u>
<u>AL-25-2.5</u>	<u>170317-46</u>	<u>8.44</u>
<u>AL-25-5.0</u>	<u>170317-47</u>	<u>7.52</u>

**COMMENTS:**

pH ANALYSIS CONDUCTED ON 1:1 SOIL/DEIONIZED WATER EXTRACTION

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

Matrix:

SOLID/SLUDGE/LIQ

## QA/QC Report

Analysis	Units	Date Analyzed	Sample I.D.	S.R.	Duplicate	% RPD	ACP %RPD
Alkalinity	mg/Kg					0.0%	0-20
Residual Chlorine	mg/Kg					0.0%	0-20
Density	g/mL					0.00%	0-20
EC	umhos/cm					0.00%	0-20
pH	pH units	3/17/2017	170317-1	5.46	5.49	0.55%	0-20
TDS	mg/L					0.00%	0-20
TSS	mg/Kg					0.0%	0-20
Resistivity	ohms					0.0%	0-20
% SOLID	%					0.0%	0-20
BTU	BTU/lb					0.0%	0-20
Salinity	S					0.00%	0-20

%RPD = Relative Percent Difference

ACP %RPD = Acceptable Relative Percent Difference

Analysis	Units	Date Analyzed	Sample I.D.	Spk Conc	S.R.	ACP %RPD	ACP %RC	MS	MS %RC	MSD	MSD %RC	% RPD
Acidity	mg/Kg					0	80-120					
Ammonia as N	mg/Kg			50.0	0.000	0-20	80-120					
MBAS	mg/Kg			6.00	0.0	0-20	80-120					
Chloride	mg/Kg			200	30.0	0-20	80-120					#VALUE!
COD	mg/Kg			500	0.0	0-20	80-120					
Cr VI	mg/Kg	3/9/2017	170308-26	4.0	0.000	0-20	80-120	3.53	88%	3.55	89%	0.5%
Cyanide	mg/Kg			10.0	0.0	0-20	80-120					#VALUE!
Fluoride	mg/Kg			10.0	0.000	0-20	80-120					#REF!
Nitrate as N	mg/Kg			4.0	0.00	0-20	80-120					#VALUE!
Nitrite as N	mg/Kg			4.0	0.00	0-20	80-120					#VALUE!
Oil and Grease	mg/Kg			667	0.0	0-20	80-120					#VALUE!
Phenolics	mg/Kg					0-20	80-120					#VALUE!
Sulfate	mg/Kg			200	0.0	0-20	80-120					#VALUE!
TOTAL Sulfide	mg/Kg			3.00	0.0	0-20	80-120					#VALUE!
TRPH	mg/Kg			667	0.0	0-20	80-120					#VALUE!
Sulfide, Dissolve	mg/Kg			3.00	0.0	0-20	80-120					#VALUE!
EPA 1664A	mg/Kg			500	0.0	0-20	80-120					#VALUE!

S.R. = Sample Results

%RC = Percent Recovery

ACP %RC = Accepted Percent Recovery

Analyst Signature: \_\_\_\_\_



Final Reviewer: \_\_\_\_\_



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/17/17

SAMPLING DATE: 03/16/17

DATE ANALYZED: 03/21/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/23/17

EPA 6010B FOR TTLC-LEAD; PAGE 1 OF 3  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-50-0.5	170317-2	15.7	1
AL-50-1.0	170317-3	4.52	1
AL-50-2.5	170317-4	4.73	1
AL-44-0.5	170317-5	6.72	1
AL-44-1.0	170317-6	4.75	1
AL-44-2.5	170317-7	5.18	1
AL-44-5.0	170317-8	6.89	1
AL-40-0.5	170317-9	6.84	1
AL-40-1.0	170317-10	1.79	1
AL-40-2.5	170317-11	5.36	1
AL-40-5.0	170317-12	6.29	1
AL-140-0.5	170317-13	4.64	1
AL-140-1.0	170317-14	5.96	1
AL-140-2.5	170317-15	4.77	1
AL-140-5.0	170317-16	7.31	1
AL-34-0.5	170317-17	3.01	1
AL-34-1.0	170317-18	3.90	1
AL-34-2.5	170317-19	3.20	1
AL-34-5.0	170317-20	4.14	1
AL-28-0.5	170317-21	11.2	1
Method Blank	---	ND	1
	MDL	0.084	
	PQL	0.50	

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected


TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: **SOIL**

DATE RECEIVED: **03/17/17**

SAMPLING DATE: **03/16/17**

DATE ANALYZED: **03/21/17**

REPORT TO: **MR. RICHARD ORR**

DATE REPORTED: **03/23/17**

EPA 6010B FOR TTLC-LEAD; PAGE 2 OF 3  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM


SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-28-1.0	170317-22	12.4	1
AL-28-2.5	170317-23	2.77	1
AL-28-5.0	170317-24	2.32	1
AL-128-0.5	170317-25	12.4	1
AL-128-1.0	170317-26	8.89	1
AL-128-2.5	170317-27	75.2 *	1
AL-128-5.0	170317-28	2.17	1
AL-27-0.5	170317-29	5.99	1
AL-27-1.0	170317-30	3.28	1
AL-27-2.5	170317-31	6.34	1
AL-27-5.0	170317-32	2.05	1
AL-33-0.5	170317-33	3.73	1
AL-33-1.0	170317-34	2.48	1
AL-33-2.5	170317-35	4.31	1
AL-33-5.0	170317-36	2.75	1
AL-29-0.5	170317-37	7.05	1
AL-29-1.0	170317-38	14.1	1
AL-29-2.5	170317-39	8.66	1
AL-29-5.0	170317-40	7.76	1
AL-26-0.5	170317-41	251 *	1

Method Blank                      ---                      ND                      1

MDL                      0.084  
 PQL                      0.50

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
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PROJECT: **603445.100**

MATRIX: SOIL DATE RECEIVED: 03/17/17  
 SAMPLING DATE: 03/16/17 DATE ANALYZED: 03/21/17  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 03/23/17

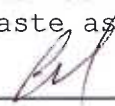
EPA 6010B FOR TTLC-LEAD; PAGE 3 OF 3  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-26-1.0	170317-42	12.5	1
AL-26-2.5	170317-43	7.53	1
AL-26-5.0	170317-44	18.3	1
AL-24-0.5	170317-48	3.13	1
AL-24-1.0	170317-49	4.10	1
AL-24-2.5	170317-50	6.65	1
AL-24-5.0	170317-51	4.91	1
AL-23-0.5	170317-52	11.6	1
AL-23-1.0	170317-53	4.61	1
AL-23-2.5	170317-54	3.56	1
AL-23-5.0	170317-55	3.28	1
AL-22-0.5	170317-56	25.0	1
AL-22-1.0	170317-57	3.70	1
AL-22-2.5	170317-58	3.23	1
AL-22-5.0	170317-59	2.84	1
AL-19-0.5	170317-60	4.13	1
AL-19-1.0	170317-61	2.75	1
AL-19-2.5	170317-62	14.6	1
AL-19-5.0	170317-63	2.44	1
Method Blank	---	ND	1

MDL 0.084  
 PQL 0.50

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/17/17

SAMPLING DATE: 03/16/17

DATE ANALYZED: 03/21/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/23/17

**EPA 6010B FOR TTLC-ARSENIC/LEAD**

**UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM**

SAMPLE I.D.	LAB I.D.	ARSENIC RESULT	DF	LEAD RESULT	DF
AL-25-0.5	170317-45	0.550	1	3.61	1
AL-25-1.0	170317-45A	0.444	1	3.35	1
AL-25-2.5	170317-46	0.729	1	4.76	1
AL-25-5.0	170317-47	0.381	1	2.72	1
Method Blank	---	ND	1	ND	1
	MDL	0.248		0.084	
	PQL	0.30		0.50	

**COMMENTS:**

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = DF X PQL

ND = Non-Detected or below the Actual Detection Limit

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

TTLC Limit for Arsenic = 500 PPM / STLC Limit for Arsenic = 5 PPM

TTLC Limit for lead = 1000 PPM / STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/21/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170317-16	50.0	100	PASS	7.94	50.0	50.2	85%	50.7	86%	1%
Chromium(Cr)	170317-16	50.0	105	PASS	21.0	50.0	68.1	94%	67.2	92%	2%
Lead(Pb)	170317-16	50.0	109	PASS	7.31	50.0	51.6	89%	50.8	87%	2%

ANALYSIS DATE. : 3/20/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170320-1	0.125	99	PASS	0	0.125	0.113	90%	0.119	95%	5%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

**Matrix Spike/ Matrix Spike Duplicate/ LCS :**

ANALYSIS DATE: 3/21/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170317-35	50.0	98	PASS	2.37	50.0	44.5	84%	44.8	85%	1%
Chromium(Cr)	170317-35	50.0	104	PASS	13.5	50.0	60.6	94%	61.9	97%	3%
Lead(Pb)	170317-35	50.0	109	PASS	4.31	50.0	49.3	90%	49.8	91%	1%

ANALYSIS DATE. : 3/20/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170320-1	0.125	99	PASS	0	0.125	0.113	90%	0.119	95%	5%

**MS/MSD Status:**

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/21/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170317-45A	50.0	98	PASS	0.444	50.0	40.2	80%	42.7	85%	6%
Chromium(Cr)	170317-45A	50.0	105	PASS	13.1	50.0	59.2	92%	58.0	90%	3%
Lead(Pb)	170317-45A	50.0	111	PASS	3.35	50.0	46.7	87%	49.1	92%	5%

ANALYSIS DATE. : 3/20/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170320-1	0.125	99	PASS	0	0.125	0.113	90%	0.119	95%	5%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/21/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170317-62	50.0	98	PASS	1.95	50.0	42.9	82%	42.8	82%	0%
Chromium(Cr)	170317-62	50.0	106	PASS	11.2	50.0	58.7	95%	59.3	96%	1%
Lead(Pb)	170317-62	50.0	110	PASS	14.6	50.0	59.6	90%	59.5	90%	0%

ANALYSIS DATE. : 3/20/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170320-1	0.125	99	PASS	0	0.125	0.113	90%	0.119	95%	5%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER DATE RECEIVED: 03/17/17  
 SAMPLING DATE: 03/16/17 DATE ANALYZED: 03/20/17  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 03/23/17

SAMPLE I.D.: **100-3**

LAB I.D.: 170317-64


**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Arsenic (As)	ND	0.01	0.005	1	200.7
Lead (Pb)	ND	0.01	0.004	1	200.7

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected

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

**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER DATE RECEIVED: 03/17/17  
 SAMPLING DATE: 03/16/17 DATE ANALYZED: 03/20/17  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 03/23/17

METHOD BLANK REPORT FOR LAB I.D.: 170317-64

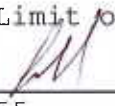
**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Arsenic (As)	ND	0.01	0.005	1	200.7
Lead (Pb)	ND	0.01	0.004	1	200.7

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected

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



LABORATORY REPORT

CUSTOMER: Leighton & Associates, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: WATER

DATE RECEIVED: 03/17/17

SAMPLING DATE: 03/16/17

DATE ANALYZED: 03/20/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/23/17

SAMPLE I.D.: 200-3

LAB I.D.: 170317-65

TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

Table with 6 columns: ELEMENT ANALYZED, SAMPLE RESULT, PQL, MDL, DF, EPA METHOD. Row 1: Lead (Pb), ND, 0.01, 0.004, 1, 200.7

COMMENTS

DF = Dilution Factor
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

### METHOD BLANK REPORT

CUSTOMER: Leighton & Associates, Inc.  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: WATER

DATE RECEIVED: 03/17/17

SAMPLING DATE: 03/16/17

DATE ANALYZED: 03/20/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/23/17

-----  
METHOD BLANK REPORT FOR LAB I.D.: 170317-65  
-----

#### TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Lead (Pb)	ND	0.01	0.004	1	200.7

#### COMMENTS

DF = Dilution Factor


MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for TLLC Metals Analysis --WATER MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/20/2017

Unit : *mg/L(ppm)*

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Lead(Pb)	170316-97	1.00	105	PASS	0	1.00	0.979	98%	0.967	97%	1%
Silver(Ag)	170316-97	0.10	105	PASS	0	0.10	0.093	93%	0.087	87%	7%
Arsenic(As)	170316-97	1.00	100	PASS	0	1.00	0.972	97%	0.921	92%	5%

ANALYSIS DATE. : 3/13/2017

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170313-2	0.00250	92	PASS	0	0.00250	0.00220	88%	0.00230	92%	4%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Lead(Pb)	PASS	PASS	PASS	PASS
Silver(Ag)	PASS	PASS	PASS	PASS
Arsenic(As)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST:  \_\_\_\_\_

FINAL REVIEWER:  \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL DATE RECEIVED: 03/17/17  
SAMPLING DATE: 03/16/17 DATE ANALYZED: 03/20/17  
REPORT TO: MR. RICHARD ORR DATE REPORTED: 03/23/17


-----  
**EPA 6010B FOR STLC-LEAD**  
**UNIT: mg/L IN THE STLC LEACHATE**  
-----

SAMPLE I.D.	LAB I.D.	STLC-LEAD RESULT	DF
<u>AL-25-0.5</u>	<u>170317-45</u>	<u>ND</u>	<u>1</u>
<u>AL-25-1.0</u>	<u>170317-45A</u>	<u>ND</u>	<u>1</u>
<u>AL-25-2.5</u>	<u>170317-46</u>	<u>ND</u>	<u>1</u>
<u>AL-25-5.0</u>	<u>170317-47</u>	<u>ND</u>	<u>1</u>
<u>Method Blank</u>	<u>---</u>	<u>ND</u>	<u>1</u>

MDL 0.02  
PQL 0.05

**COMMENTS:**

DF = Dilution Factor  
MDL = Method Detection Limit  
PQL = Practical Quantitation Limit  
J = Trace Concentration between MDL and PQL  
Actual Detection Limit = PQL X DF  
ND = Below the Actual Detection Limit or non-detected  
STLC = Soluble Threshold Limit Concentration  
mg/L = Milligram Per Liter = PPM  
\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

# QA/QC for Metals Analysis --STLC

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/20/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	170317-47	5.00	109	PASS	0.342	5.00	5.25	98%	5.29	99%	1%
Lead(Pb)	170317-47	5.00	105	PASS	0.455	5.00	5.20	95%	5.21	95%	0%
Nickel(Ni)	170317-47	5.00	97	PASS	0.361	5.00	5.06	94%	5.01	93%	1%

ANALYSIS DATE: 3/16/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170314-19	0.0125	96	PASS	0	0.0125	0.0109	87%	0.0112	90%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Nickel(Ni)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST:  \_\_\_\_\_

FINAL REVIEWER:  \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --STLC

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/20/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	170316-48	5.00	109	PASS	0	5.00	5.03	101%	5.02	100%	0%
Lead(Pb)	170316-48	5.00	105	PASS	0	5.00	3.58	72%	3.56	71%	1%
Nickel(Ni)	170316-48	5.00	97	PASS	0.407	5.00	3.74	67%	3.75	67%	0%

ANALYSIS DATE: 3/20/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170220-50	0.0125	96	PASS	0	0.0125	0.0110	88%	0.0107	86%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	FAIL*	FAIL*	PASS	PASS
Nickel(Ni)	FAIL*	FAIL*	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/16/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/17/17  
 DATE EXTRACTED: 03/20/17  
 DATE ANALYZED: 03/20/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **AL-25-0.5** LAB I.D.: 170317-45

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/16/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/17/17  
 DATE EXTRACTED: 03/20/17  
 DATE ANALYZED: 03/20/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **AL-25-1.0**

LAB I.D.: 170317-45A

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: \_\_\_\_\_  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/16/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/17/17  
 DATE EXTRACTED: 03/20/17  
 DATE ANALYZED: 03/20/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **AL-25-2.5**

LAB I.D.: 170317-46

**Organochlorine Pesticides Analysis**

method: EPA 8081A

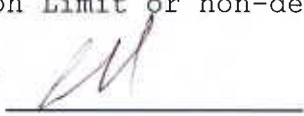
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/16/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/17/17  
 DATE EXTRACTED: 03/20/17  
 DATE ANALYZED: 03/20/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **AL-25-5.0**

LAB I.D.: 170317-47

**Organochlorine Pesticides Analysis**

method: EPA 8081A

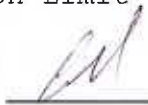
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/16/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/17/17  
 DATE EXTRACTED: 03/20/17  
 DATE ANALYZED: 03/20/17  
 DATE REPORTED: 03/23/17

METHOD BLANK REPORT FOR LAB I.D.:  
 170317-45, -45A, -46, -47

Organochlorine Pesticides Analysis  
 method: EPA 8081A  
 Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



# Enviro-Chem, Inc.

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

## EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)**  
 Unit: **mg/Kg (ppm)**

Date Analyzed: **3/20/2017**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.:**      **170317-45A MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00508	<b>102%</b>	0.00533	<b>107%</b>	<b>5%</b>	<b>0-20%</b>	<b>70-130</b>
Aldrin	0.000	0.00500	0.00561	<b>112%</b>	0.00544	<b>109%</b>	<b>3%</b>	<b>0-20%</b>	<b>70-130</b>
4,4-DDE	0.000	0.00500	0.00418	<b>84%</b>	0.00434	<b>87%</b>	<b>4%</b>	<b>0-20%</b>	<b>70-130</b>

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00531	<b>106%</b>	<b>75-125</b>
Aldrin	0.00500	0.00500	<b>100%</b>	<b>75-125</b>
4,4-DDE	0.00500	0.00458	<b>92%</b>	<b>75-125</b>
Dieldrin	0.00500	0.00559	<b>112%</b>	<b>75-125</b>

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		MB	170317-45	170317-45A	170317-46	170317-47	170317-66		
Tetra-chloro-meta-xylene	50-150	142%	148%	134%	137%	137%	145%		
Decachlorobiphenyl	50-150	80%	61%	74%	75%	74%	73%		

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene	50-150								
Decachlorobiphenyl	50-150								

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene	50-150								
Decachlorobiphenyl	50-150								

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

\* = Surrogate fail due to matrix interference (If Marked)

**Note: LCS, MS, MSD are in control therefore results are in control.**

Analyzed and Reviewed By: 

Final Reviewer: 

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER  
 SAMPLING DATE: 03/16/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/17/17  
 DATE EXTRACTED: 03/17/17  
 DATE ANALYZED: 03/20/17  
 DATE REPORTED: 03/23/17

SAMPLE I.D.: **100-3**

LAB I.D.: 170317-64

**Organochlorine Pesticides Analysis**

Method: EPA 8081A

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1
PCB-1016	ND	1.00	0.50	1
PCB-1221	ND	1.00	0.50	1
PCB-1232	ND	1.00	0.50	1
PCB-1242	ND	1.00	0.50	1
PCB-1248	ND	1.00	0.50	1
PCB-1254	ND	1.00	0.50	1
PCB-1260	ND	1.00	0.50	1

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
 PROJECT: **603445.100**

MATRIX: WATER  
 SAMPLING DATE: 03/16/17  
 REPORT TO: MR. RICHARD ORR  
 DATE RECEIVED: 03/17/17  
 DATE EXTRACTED: 03/17/17  
 DATE ANALYZED: 03/20/17  
 DATE REPORTED: 03/23/17

METHOD BLANK REPORT FOR LAB I.D.: 170317-64

Organochlorine Pesticides Analysis

Method: EPA 8081A

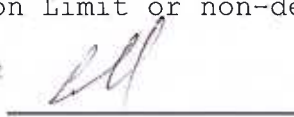
Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1
PCB-1016	ND	1.00	0.50	1
PCB-1221	ND	1.00	0.50	1
PCB-1232	ND	1.00	0.50	1
PCB-1242	ND	1.00	0.50	1
PCB-1248	ND	1.00	0.50	1
PCB-1254	ND	1.00	0.50	1
PCB-1260	ND	1.00	0.50	1

COMMENTS

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

**EPA 608 QA/QC Report**

Ⓟ 8081A

Matrix: Water/Liquid

Date Analyzed: 3/20/2017

Unit: ug/L

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.: 170316-97 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0	0.500	0.517	103%	0.528	106%	2%	0-20%	70-130
Aldrin	0	0.500	0.540	108%	0.563	113%	4%	0-20%	70-130
4,4-DDE	0	0.500	0.541	108%	0.536	107%	1%	0-20%	70-130

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.500	0.516	103%	75-125
Aldrin	0.500	0.529	106%	75-125
4,4-DDE	0.500	0.519	104%	75-125
Dieldrin	0.500	0.584	117%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		M-BLK	170316-97	170317-64	170317-67				
Tetra-chloro-meta-xylene	50-150	140%	147%	128%	133%				
Decachlorobipneyl	50-150	97%	86%	71%	70%				

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene									
Decachlorobipneyl									

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

\* = Surrogate fail due to matrix interference

Note: LCS, MS, MSD are in control therefore results are in control.

Final Reviewer: 

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	G010B Pb						Misc./PO# Sample from red cap end

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required						COMMENTS	
AL-50-0.5	70317-2	3/16/17	0906	Soil	1	RT	ICE	X							
AL-50-1.0	-3		0908					X							
AL-50-2.5	-4		0930					X							
AL-44-0.5	-5		0951					X							
AL-44-1.0	-6		0953					X							
AL-44-2.5	-7		0956					X							
AL-44-5.0	-8		0957					X							
AL-40-0.5	-9		1012					X							
<del>AL-40-1.0</del> AL-40-1.0	-10		1014					X							
<del>AL-40-2.5</del> AL-40-2.5	-11		1017					X							
AL-40-5.0	-12		1019					X							
AL-140-0.5	-13		1023					X							
AL-140-1.0	-14		1025					X							
AL-140-2.5	-15		1028					X							
AL-140-5.0	-16		1030					X							

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>G03445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>Per-Chan Su</u>	Date & Time: <u>3/17/17 9:50</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>Per-Chan Su</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/17/17 9:30</u>	<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="checkbox"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 3/16/17

WHITE WITH SAMPLE • YELLOW TO CLIENT



**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	60105 Pb					Misc./PO#
									Sample form red cap end

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS
		DATE	TIME										
AL-34-0.5	170317-17	3/16/17	1052	soil	1	ice	X						
AL-34-1.0	-18		1054				X						
AL-34-2.5	-19		1058				X						
AL-34-5.0	-20		1100				X						
AL-28-0.5	-21		1111				X						
AL-28-1.0	-22		1113				X						
AL-28-2.5	-23		1115				X						
AL-28-5.0	-24		1117				X						
AL-128-0.5	-25		1120				X						
AL-128-1.0	-26		1122				X						
AL-128-2.5	-27		1124				X						
AL-128-5.0	-28		1126				X						
AL-27-0.5	-29		1139				X						
AL-27-1.0	-30		1141				X						
AL-27-2.5	-31		1143				X						

Company Name: <i>Leighton Consulting</i>	Project Contact: <i>Richard Orr</i>	Sampler's Signature: <i>[Signature]</i>
Address: <i>10532 Acacia St Ste B6</i>	Tel: <i>(909) 484-2205</i>	Project Name/ID: <i>603445-100</i>
City/State/Zip: <i>Rancho Cucamonga, CA 91730</i>	Fax/Email: <i>(909) 484-2170</i>	

Relinquished by: <i>[Signature]</i>	Received by: <i>Pei-Chen Su</i>	Date & Time: <i>3/17/17 8:50</i>	Instructions for Sample Storage After Analysis: <input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days) <input type="radio"/> Other:
Relinquished by: <i>Pei-Chen Su</i>	Received by: <i>[Signature]</i>	Date & Time: <i>3/17/17 9:30</i>	
Relinquished by:	Received by:	Date & Time:	

**CHAIN OF CUSTODY RECORD**

Date: 3/16/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS	
		DATE	TIME					60105 Pb	6120 Pb	60103 As	6081A	PH		
AL-27-5.0	703/7-32	3/16/17	1144	Soil	1	ice	X							
AL-33-0.5	-33		1158				X							
AL-33-1.0	-34		1159				X							
AL-33-2.5	-35		1201				X							
AL-33-5.0	-36		1202				X							
AL-29-0.5	-37		1219				X							
AL-29-1.0	-38		1220				X							
AL-29-2.5	-39		1223				X							
AL-29-5.0	-40		1224				X							
AL-26-0.5	-41		1259				X							
AL-26-1.0	-42		1300				X							
AL-26-2.5	-43		1302				X							
AL-26-5.0	-44		1304				X							
AL-25-0.5	-45		1319				X	X	X	X	X			
AL-25-1.0	-45A		1321				X	X	X	X	X			

Misc./PO#  
 Sample from red cap end

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>Pei-Chun Su</u>	Date & Time: <u>3/17/17 8:20</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>Pei-Chun Su</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/17/17 9:30</u>	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days) <input type="radio"/> Other:		
Relinquished by:	Received by:	Date & Time:			

**CHAIN OF CUSTODY RECORD**

Date: 3/16/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS
								6010B Pb	5750 Pb	LA WET	6010B As	8081A	
AL-25-2.5	1703/7-46	3/16/17	1322	Soil	1		100	X	X	X	X	X	
AL-25-5.0	-47		1324					X	X	X	X	X	
AL-24-0.5	-48		1339					X					
AL-24-1.0	-49		1341					X					
AL-24-2.5	-50		1342					X					
AL-24-5.0	-51		1343					X					
AL-23-0.5	-52		1354					X					
AL-23-1.0	-53		1355					X					
AL-23-2.5	-54		1357					X					
AL-23-5.0	-55		1358					X					
AL-22-0.5	-56		1413					X					
AL-22-1.0	-57		1414					X					
AL-22-2.5	-58		1416					X					
AL-22-5.0	-59		1417					X					

Misc./PO#  
Sample from red cap end

Company Name: Leighton Consulting  
 Address: 10532 Acacia St Ste B6  
 City/State/Zip: Rancho Cucamonga, CA 91730

Project Contact: Richard Orr  
 Tel: (909) 484-2205  
 Fax/Email: (909) 484-2170

Sampler's Signature: [Signature]  
 Project Name/ID: 603445-100

Relinquished by: [Signature]  
 Relinquished by: Richard Orr  
 Relinquished by:

Received by: Richard Orr  
 Received by: [Signature]  
 Received by:

Date & Time: 3/16/17 8:50  
 Date & Time: 3/17/17 9:30  
 Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/16/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required			COMMENTS
		DATE	TIME								
AL-19-0.5	170317-60	3/16/17	1429	Soil	1		ice	X			
AL-19-1.0	-61		1429					X			
AL-19-2.5	-62		1431					X			
AL-19-5.0	-63		1432					X			
100-3	-64		1449	Water	2		H <sub>2</sub> O <sub>2</sub> /ice	X	X	X	
200-3	-65		1450	Water	1			X			

6010B Pb  
 6010B As  
 8081A

Misc./PO#  
 Sample from red cap end

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>Fei-Chun Gu</u>	Date & Time: <u>3/17/17 8:50</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>Fei-Chun Gu</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/17/17 9:30</u>	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="radio"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 3/16/17

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro - Chem, Inc.**

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

Date: March 29, 2017

Mr. Richard Orr  
Leighton & Associates, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170317-2 through -65**

Dear Mr. Orr:

The **additional STLC-Pb results** for the soil and water samples, received by our lab on March 17, 2017, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
 PROJECT: **603445.100**


MATRIX: SOIL DATE RECEIVED: 03/17/17  
 SAMPLING DATE: 03/16/17 DATE ANALYZED: 03/27-29/17  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 03/29/17

EPA 6010B FOR STLC-LEAD  
 UNIT: mg/L IN THE STLC LEACHATE

SAMPLE I.D.	LAB I.D.	STLC-LEAD RESULT	DF
<u>AL-128-2.5</u>	170317-27	2.21	1
<u>AL-26-0.5</u>	170317-41	7.53 ***	1
<u>Method Blank</u>	---	ND	1
	<b>MDL</b>	<b>0.02</b>	
	<b>PQL</b>	<b>0.05</b>	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 STLC = Soluble Threshold Limit Concentration  
 mg/L = Milligram Per Liter = PPM  
 \*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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



Jessica Lin &lt;curt.envirocheminc@gmail.com&gt;

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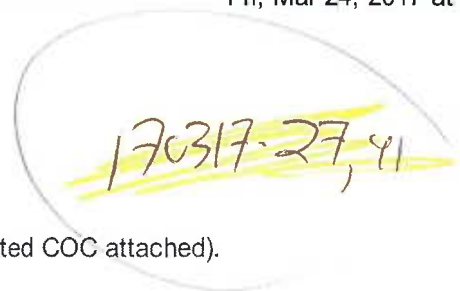
**603445.100 (03/16/2017 Samples)**

---

**Zachary Freeman** <zfreeman@leightongroup.com>  
To: "Curtis B. Desilets" <curt.envirocheminc@gmail.com>  
Cc: Richard Orr <rro@leightongroup.com>

Fri, Mar 24, 2017 at 4:42 PM

Hi Curtis,



Please run the two high lead samples for STLC by CA WET method (updated COC attached).

Have a good weekend!

**Zach Freeman, PG**  
Senior Staff Geologist  
10532 Acacia Street Suite B-6  
Rancho Cucamonga, CA 91786  
951-743-2642 Cellular  
909-484-2205 Office  
**Leighton**  
Solutions You Can Build On


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**Please consider the environment before printing this e-mail.**

**From:** Curtis B. Desilets [mailto:curt.envirocheminc@gmail.com]  
**Sent:** Friday, March 24, 2017 4:36 PM  
**To:** Richard Orr; Zachary Freeman  
**Subject:** Re: 603445.100 (03/16/2017 Samples)

[Quoted text hidden]

---

 **3065\_001.pdf**  
329K

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 Other: \_\_\_\_\_

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required		COMMENTS
		DATE	TIME							
AL-34-0.5	170317-17	3/16/17	1052	Soil	1	ice	X			
AL-34-1.0	-18		1054				X			
AL-34-2.5	-19		1058				X			
AL-34-5.0	-20		1100				X			
AL-28-0.5	-21		1111				X			
AL-28-1.0	-22		1113				X			
AL-28-2.5	-23		1115				X			
AL-28-5.0	-24		1117				X			
AL-128-0.5	-25		1120				X			
AL-128-1.0	-26		1122				X			
AL-128-2.5	-27		1124				X	X		
AL-128-5.0	-28		1126				X			
AL-27-0.5	-29		1139				X			
AL-27-1.0	-30		1141				X			
AL-27-2.5	-31		1143				X			

60105 Pb  
1572076  
CALMET

Misc./PO#  
Sample from red cap end

Company Name: <i>Leighton Consulting</i>	Project Contact: <i>Richard Orr</i>	Sampler's Signature: <i>[Signature]</i>
Address: <i>10532 Acacia St Ste B/C</i>	Tel: <i>(909) 484-2205</i>	Project Name/ID: <i>605445-100</i>
City/State/Zip: <i>Rancho Cucamonga, CA 91730</i>	Fax/Email: <i>(909) 484-2170</i>	

Relinquished by: <i>[Signature]</i>	Received by: <i>Richard Orr</i>	Date & Time: <i>3/17/17 8:50</i>
Relinquished by: <i>Richard Orr</i>	Received by: <i>[Signature]</i>	Date & Time: <i>3/17/17 9:30</i>
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of    Return to Client    Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/16/17

WHITE WITH SAMPLE - YELLOW TO CLIENT



**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
 CA-DHS ELAP CERTIFICATE #1555

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	6010B Pb	6120 Pb	CA WET	6010B As	8081A	PH	Misc./PO#
										Sample from red cap end

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS
		DATE	TIME					6010B Pb	6120 Pb	CA WET	6010B As	8081A	
AL-27-5.0	1703/7-32	3/16/17	1144	Soil	1	icc	X						
AL-33-0.5	-33		1158				X						
AL-33-1.0	-34		1159				X						
AL-33-2.5	-35		1201				X						
AL-33-5.0	-36		1202				X						
AL-29-0.5	-37		1219				X						
AL-29-1.0	-38		1220				X						
AL-29-2.5	-39		1223				X						
AL-29-5.0	-40		1224				X						
AL-26-0.5	-41		1259				X	X	X	X	X		
AL-26-1.0	-42		1300				X						
AL-26-2.5	-43		1302				X						
AL-26-5.0	-44		1304				X						
AL-25-0.5	-45		1319				X	X	X	X	X		
AL-25-1.0	-45A		1321				X	X	X	X	X		

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/17/17 8:30</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/17/17 9:30</u>	<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="checkbox"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 3/16/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro - Chem, Inc.**

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

Date: March 30, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170321-5 through -58**

Dear Mr. Orr:

The **analytical results** for the soil and water samples, received by our lab on March 21, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/20/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/22/17  
 DATE ANALYZED: 03/22/17  
 DATE REPORTED: 03/30/17

**TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS**

**METHOD: EPA 8015B**

**UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM**

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
RR-6-0.5	170321-5	ND	ND	ND	1
RR-6-1.0	170321-6	ND	ND	ND	1
RR-6-2.5	170321-7	ND	ND	ND	1
RR-6-3.0	170321-8	ND	ND	ND	1
RR-5-0.5	170321-9	ND	ND	ND	1
RR-5-1.0	170321-10	ND	ND	ND	1
RR-5-2.5	170321-11	ND	ND	ND	1
RR-5-5.0	170321-12	ND	ND	ND	1
RR-3-0.5	170321-49	ND	ND	ND	1
RR-3-1.0	170321-50	ND	ND	ND	1
RR-3-2.5	170321-51	ND	ND	ND	1
RR-9-5.0	170321-52	ND	ND	ND	1
RR-4-0.5	170321-53	ND	ND	ND	1
RR-4-1.0	170321-54	ND	ND	ND	1
RR-4-2.5	170321-55	ND	ND	ND	1
RR-4-5.0	170321-56	ND	ND	ND	1
<b>METHOD BLANK</b>		ND	ND	ND	1
<b>PQL</b>		<b>10</b>	<b>10</b>	<b>50</b>	

**COMMENTS**

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE

C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

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

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: Leighton Consulting, Inc.  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: WATER

SAMPLING DATE: 03/20/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17

DATE EXTRACTED: 03/21/17

DATE ANALYZED: 03/27/17

DATE REPORTED: 03/30/17

**TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS**

**METHOD: EPA 8015B**

**UNIT: uG/L = MICROGRAM PER LITER = PPB**

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
200-3	170321-58	ND	ND	ND	1
<b>METHOD BLANK</b>		ND	ND	ND	1
	<b>MDL</b>	250	250	2500	
	<b>PQL</b>	500	500	5000	

**COMMENTS**

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE

C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR


MDL = METHOD DETECTION LIMIT

PQL = PRACTICAL QUANTITATION LIMIT

J = TRACE CONCENTRATION BETWEEN MDL AND PQL

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro Chem, Inc

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

# 8015B QA/QC Report

Date Analyzed: 3/27/2017

Units: ug/L (PPB)

Matrix: **Water/Liquid**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **170323-69 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11-C22 RANGE	0	12000	11500	<b>96%</b>	11200	<b>93%</b>	<b>3%</b>	<b>75-125</b>	<b>0-20%</b>

### LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11-C22 RANGE	12000	11100	<b>93%</b>	<b>75-125</b>

Analyzed and Reviewed by: 

Final Reviewer: 

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

# 8015B QA/QC Report

Date Analyzed: 3/22/2017

Units: mg/Kg (ppm)

Matrix: Soil/Solid/Sludge/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **170321-5 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	200	197	98%	209	105%	6%	75-125	0-20%

### LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	197	99%	75-125

Analyzed and Reviewed By: \_\_\_\_\_

Final Reviewer: \_\_\_\_\_

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

-----  
**pH ANALYSIS**  
**METHOD: EPA 9045C**  
**UNIT: pH UNITS**  
-----

<b>SAMPLE I.D.</b>	<b>LAB I.D.</b>	<b>pH RESULT</b>
<u>AL-3-0.5</u>	<u>170321-41</u>	<u>8.31</u>
<u>AL-3-1.0</u>	<u>170321-42</u>	<u>8.10</u>
<u>AL-3-2.5</u>	<u>170321-43</u>	<u>8.02</u>
<u>AL-3-5.0</u>	<u>170321-44</u>	<u>7.97</u>

**COMMENTS:**

pH ANALYSIS CONDUCTED ON 1:1 SOIL/DEIONIZED WATER EXTRACTION

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

Matrix:

SOLID/SLUDGE/LIQ

### QA/QC Report

Analysis	Units	Date Analyzed	Sample I.D.	S.R.	Duplicate	% RPD	ACP %RPD
Alkalinity	mg/Kg					0.0%	0-20
Residual Chlorine	mg/Kg					0.0%	0-20
Density	g/mL					0.00%	0-20
EC	umhos/cm	3/20/2017	170320-3	81.4	82.6	1.46%	0-20
pH	pH units	3/21/2017	170321-69	8.34	8.37	0.36%	0-20
TDS	mg/L					0.00%	0-20
TSS	mg/Kg					0.0%	0-20
Resistivity	ohms	3/20/2017	170320-31	12285	12107	1.5%	0-20
% SOLID	%					0.0%	0-20
BTU	BTU/lb					0.0%	0-20
Salinity	S					0.00%	0-20

%RPD = Relative Percent Difference

ACP %RPD = Acceptable Relative Percent Difference

Analysis	Units	Date Analyzed	Sample I.D.	Spk Conc	S.R.	ACP %RPD	ACP %RC	MS	MS %RC	MSD	MSD %RC	% RPD
Acidity	mg/Kg					0	80-120					
Ammonia as N	mg/Kg			50.0	0.000	0-20	80-120					
MBAS	mg/Kg			6.00	0.0	0-20	80-120					
Chloride	mg/Kg	3/21/2017	170320-3	200	25.0	0-20	80-120	215	95%	210	93%	2.5%
COD	mg/Kg			500	0.0	0-20	80-120					
C: VI	mg/Kg			4.0	0.000	0-20	80-120					#VALUE!
Cyanide	mg/Kg			10.0	0.0	0-20	80-120					#VALUE!
Fluoride	mg/Kg			10.0	0.000	0-20	80-120					#REF!
Nitrate as N	mg/Kg			4.0	0.00	0-20	80-120					#VALUE!
Nitrite as N	mg/Kg			4.0	0.00	0-20	80-120					#VALUE!
Oil and Grease	mg/Kg			667	0.0	0-20	80-120					#VALUE!
Phenolics	mg/Kg					0-20	80-120					#VALUE!
Sulfate	mg/Kg	3/21/2017	170320-3	200	15.7	0-20	80-120	185	85%	187	86%	1.0%
TOTAL Sulfide	mg/Kg			3.00	0.0	0-20	80-120					#VALUE!
TRPH	mg/Kg	3/17/2017	LCS1/2	667	0.0	0-20	80-120	627	94%	627	94%	0.0%
Sulfide, Dissolve	mg/Kg			3.00	0.0	0-20	80-120					#VALUE!
EPA 1664A	mg/Kg			500	0.0	0-20	80-120					#VALUE!

S.R. = Sample Results

%RC = Percent Recovery

ACP %RC = Accepted Percent Recovery

Analyst Signature: \_\_\_\_\_



Final Reviewer: \_\_\_\_\_





**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

EPA 6010B FOR TTLC-LEAD; PAGE 1 OF 2  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-18-0.5	170321-13	3.98	1
AL-18-1.0	170321-14	3.13	1
AL-18-2.5	170321-15	2.49	1
AL-18-5.0	170321-16	2.05	1
AL-17-0.5	170321-17	3.83	1
AL-17-1.0	170321-18	3.81	1
AL-17-2.5	170321-19	2.28	1
AL-17-5.0	170321-20	2.45	1
AL-11-0.5	170321-21	25.6	1
AL-11-1.0	170321-22	27.8	1
AL-11-2.5	170321-23	3.15	1
AL-11-5.0	170321-24	10.9	1
AL-10-0.5	170321-25	9.31	1
AL-10-1.0	170321-26	70.6 *	1
AL-10-2.5	170321-27	2.43	1
AL-10-5.0	170321-28	3.08	1
AL-9-0.5	170321-29	5.99	1
AL-9-1.0	170321-30	11.2	1
AL-9-2.5	170321-31	6.82	1
AL-9-5.0	170321-32	2.38	1

Method Blank                      ---                      ND                      1

MDL                      0.084

PQL                      0.50

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected


TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/22/17

REPORT TO: MR. RICHARD ORR

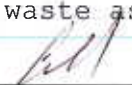
DATE REPORTED: 03/30/17

EPA 6010B FOR TTLC-LEAD; PAGE 2 OF 2  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-8-0.5	170321-33	8.14	1
AL-8-1.0	170321-34	7.19	1
AL-8-2.5	170321-35	2.13	1
AL-8-5.0	170321-36	4.62	1
AL-5-0.5	170321-37	8.74	1
AL-5-1.0	170321-38	5.60	1
AL-5-2.5	170321-39	3.19	1
AL-5-5.0	170321-40	2.03	1
AL-20-0.5	170321-45	4.59	1
AL-20-1.0	170321-46	2.69	1
AL-20-2.5	170321-47	3.11	1
AL-20-5.0	170321-48	3.13	1
Method Blank	---	ND	1
	MDL	0.084	
	PQL	0.50	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

**Matrix Spike/ Matrix Spike Duplicate/ LCS :**

ANALYSIS DATE: 3/22/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170321-22	50.0	101	PASS	0.651	50.0	44.4	87%	46.7	92%	5%
Chromium(Cr)	170321-22	50.0	103	PASS	35.0	50.0	73.8	78%	76.4	83%	6%
Lead(Pb)	170321-22	50.0	104	PASS	27.8	50.0	71.5	87%	73.0	90%	3%

ANALYSIS DATE. : 3/21/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170321-2	0.125	94	PASS	0	0.125	0.106	85%	0.104	83%	2%

**MS/MSD Status:**

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_ 

FINAL REVIEWER: \_\_\_\_\_ 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

### LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**


MATRIX: SOIL DATE RECEIVED: 03/21/17  
 SAMPLING DATE: 03/20/17 DATE ANALYZED: 03/22/17  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 03/30/17

EPA 6010B FOR TTLC-ARSENIC/LEAD  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	ARSENIC RESULT	DF	LEAD RESULT	DF
AL-3-0.5	170321-41	0.303	1	6.16	1
AL-3-1.0	170321-42	0.579	1	6.78	1
AL-3-2.5	170321-43	1.58	1	2.89	1
AL-3-5.0	170321-44	0.477	1	1.89	1
Method Blank	---	ND	1	ND	1
	MDL	0.248		0.084	
	PQL	0.30		0.50	

**COMMENTS:**

DF = Dilution Factor  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = DF X PQL  
 ND = Non-Detected or below the Actual Detection Limit  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 TTLC Limit for Arsenic = 500 PPM / STLC Limit for Arsenic = 5 PPM  
 TTLC Limit for lead = 1000 PPM / STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

**Matrix Spike/ Matrix Spike Duplicate/ LCS :**

ANALYSIS DATE: 3/22/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170321-42	50.0	100	PASS	0.579	50.0	46.8	92%	47.4	94%	1%
Chromium(Cr)	170321-42	50.0	104	PASS	9.51	50.0	55.3	92%	55.8	93%	1%
Lead(Pb)	170321-42	50.0	105	PASS	6.78	50.0	50.4	87%	51.4	89%	2%

ANALYSIS DATE. : 3/21/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170321-2	0.125	94	PASS	0	0.125	0.106	85%	0.104	83%	2%

**MS/MSD Status:**

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_ 

FINAL REVIEWER: \_\_\_\_\_ 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-6-0.5**

LAB I.D.: 170321-5


**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	0.625	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	63.0	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	11.1	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	5.06	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	10.4	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	5.20	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	32.8	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	39.5	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLT = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-6-1.0**

LAB I.D.: 170321-6

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	0.614	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	102	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	20.6	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.02	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	16.9	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	6.18	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.020	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	37.2	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	57.7	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-6-2.5**

LAB I.D.: 170321-7

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	0.731	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	94.7	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	15.8	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	6.77	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	31.7	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	12.5	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	39.2	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	57.8	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-6-3.0**

LAB I.D.: 170321-8

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	0.549	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	69.5	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	11.7	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.07	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	13.7	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	5.36	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	40.4	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	33.0	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-5-0.5**

LAB I.D.: 170321-9

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	ND	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	75.6	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	9.84	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	5.46	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	8.67	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	2.77	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	27.4	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	31.8	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-5-1.0**

LAB I.D.: 170321-10

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	0.888	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	176	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	24.0	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	11.0	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	30.7	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	9.02	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	56.6	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	91.1	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-5-2.5**

LAB I.D.: 170321-11

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	ND	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	100	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	14.2	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.01	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	11.8	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	3.62	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	41.2	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	37.3	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-5-5.0**

LAB I.D.: 170321-12

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	ND	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	129	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	17.0	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	8.67	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	15.3	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	2.48	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	48.8	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	43.7	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLT = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-3-0.5**

LAB I.D.: 170321-49

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	2.98	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	83.7	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	19.3	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	7.42	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	17.2	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	8.27	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	48.0	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	64.0	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-3-1.0**

LAB I.D.: 170321-50

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	2.94	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	63.3	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	18.7	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.40	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	12.6	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	5.01	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	57.3	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	35.3	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-3-2.5**

LAB I.D.: 170321-51

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	2.69	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	77.0	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	18.5	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	7.68	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	14.4	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	9.40	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	41.4	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	42.4	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: [Signature]

CAL-DHS ELAP CERTIFICATE No.: 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-3-5.0**

LAB I.D.: 170321-52

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.45	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	70.7	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	14.1	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.13	1.0	0.156	1	<b>8,000</b>	<b>80</b>	<b>6010B</b>
Copper (Cu)	11.4	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	36.8	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	33.3	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	42.1	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLT = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-4-0.5**

LAB I.D.: 170321-53

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.80	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	91.6	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	21.5	0.5	0.138	1	2,500	560/500	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.16	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	16.3	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	16.3	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	40.8	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	65.3	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: *ROR*

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-4-1.0**

LAB I.D.: 170321-54

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	2.73	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	79.2	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	16.5	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.28	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	12.5	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	9.90	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	40.7	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	43.2	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-4-2.5**

LAB I.D.: 170321-55

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	2.73	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	49.7	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	12.6	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	5.86	1.0	0.156	1	<b>8,000</b>	<b>80</b>	<b>6010B</b>
Copper (Cu)	9.40	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	2.47	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	32.6	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	29.9	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: *[Signature]*

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-4-5.0**

LAB I.D.: 170321-56

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.37	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	91.3	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	16.0	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.83	1.0	0.156	1	<b>8,000</b>	<b>80</b>	<b>6010B</b>
Copper (Cu)	11.8	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	2.17	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	41.5	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	36.4	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLT = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5  
 \* = STLC analysis for the metal is recommended (if marked)  
 \*\* = Additional Analysis required, please call to discuss (if marked)  
 \*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)  
 -- = Not analyzed/not requested

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

**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

METHOD BLANK REPORT FOR LAB I.D.: 170321-5, -6, -7, -8, -9, -10, -11,  
 -12, -49, -50, -51, -52, -53, -54, -55, -56

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	ND	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	ND	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	ND	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	ND	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	ND	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	ND	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	ND	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	ND	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

Metals Analysis Date : 3/22/2017

Mercury Analysis Date : 3/21/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Antimony (Sb)	170321-55	50.0	105	PASS	0	50	46.9	94%	47.4	95%	1%
Arsenic (As)	170321-55	50.0	105	PASS	2.73	50	49.5	94%	49.9	94%	1%
Barium (Ba)	170321-55	50.0	105	PASS	49.7	50	96.4	93%	97.4	95%	2%
Beryllium (Be)	170321-55	50.0	106	PASS	0	50	49.4	99%	50.0	100%	1%
Cadmium (Cd)	170321-55	50.0	108	PASS	0	50	47.8	96%	48.3	97%	1%
Chromium (Cr)	170321-55	50.0	104	PASS	12.6	50	61.9	99%	62.6	100%	1%
Cobalt (Co)	170321-55	50.0	108	PASS	5.86	50	49.2	87%	49.5	87%	1%
Copper (Cu)	170321-55	50.0	104	PASS	9.40	50	56.7	95%	57.3	96%	1%
Lead (Pb)	170321-55	50.0	110	PASS	2.47	50	48.8	93%	49.3	94%	1%
Mercury (Hg)	170321-2	0.125	94	PASS	0	0.125	0.106	85%	0.104	83%	2%
Molybdenum(Mo)	170321-55	50.0	105	PASS	0	50	45.8	92%	46.2	92%	1%
Nickel (Ni)	170321-55	50.0	103	PASS	0	50	50.7	101%	50.9	102%	0%
Selenium (Se)	170321-55	50.0	105	PASS	0	50	46.1	92%	46.6	93%	1%
Silver (Ag)	170321-55	5.0	103	PASS	0	5.0	4.38	88%	4.51	90%	0%
Thallium (Tl)	170321-55	50.0	107	PASS	0	50	40.2	80%	40.4	81%	1%
Vanadium (V)	170321-55	50.0	99	PASS	32.6	50	75.5	80%	73.6	82%	2%
Zinc (Zn)	170321-55	50.0	111	PASS	29.9	50	101	81%	102	81%	0%

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

### LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **100-4**

LAB I.D.: 170321-57

#### TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Lead (Pb)	ND	0.01	0.004	1	200.7

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555



METHOD BLANK REPORT

CUSTOMER: Leighton & Associates, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: WATER

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

METHOD BLANK REPORT FOR LAB I.D.: 170321-57

TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

Table with 6 columns: ELEMENT ANALYZED, SAMPLE RESULT, PQL, MDL, DF, EPA METHOD. Row 1: Lead (Pb), ND, 0.01, 0.004, 1, 200.7

COMMENTS

DF = Dilution Factor
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for TTLC Metals Analysis --WATER MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/24/2017

Unit : *mg/L(ppm)*

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	170321-71	1.00	99	PASS	0	1.00	0.987	99%	0.983	98%	0%
Lead(Pb)	170321-71	0.10	107	PASS	0	1.00	0.980	98%	0.976	98%	0%
Zinc(Zn)	170321-71	1.00	108	PASS	0.472	1.00	1.19	72%	1.18	71%	1%

ANALYSIS DATE. : 3/21/2017

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170317-87	0.00250	96	PASS	0	0.00250	0.00230	92%	0.00220	88%	4%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Zinc(Zn)	FAIL*	FAIL*	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

SAMPLE I.D.: **200-3**

LAB I.D.: 170321-58

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	EPA METHOD
Antimony (Sb)	ND	0.02	1	200.7
Arsenic (As)	ND	0.01	1	200.7
Barium (Ba)	ND	0.10	1	200.7
Beryllium (Be)	ND	0.01	1	200.7
Cadmium (Cd)	ND	0.01	1	200.7
Chromium (Cr)	ND	0.01	1	200.7
Cobalt (Co)	ND	0.02	1	200.7
Copper (Cu)	0.034	0.02	1	200.7
Lead (Pb)	ND	0.01	1	200.7
Mercury (Hg)	ND	0.0005	1	245.1
Molybdenum (Mo)	ND	0.1	1	200.7
Nickel (Ni)	ND	0.05	1	200.7
Selenium (Se)	ND	0.02	1	200.7
Silver (Ag)	ND	0.02	1	200.7
Thallium (Tl)	ND	0.02	1	200.7
Vanadium (V)	ND	0.1	1	200.7
Zinc (Zn)	0.046	0.01	1	200.7

**COMMENTS**

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**Enviro - Chem, Inc.**

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

**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/21&24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

METHOD BLANK REPORT FOR LAB I.D.: 170321-58

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	EPA METHOD
Antimony (Sb)	ND	0.02	1	200.7
Arsenic (As)	ND	0.01	1	200.7
Barium (Ba)	ND	0.10	1	200.7
Beryllium (Be)	ND	0.01	1	200.7
Cadmium (Cd)	ND	0.01	1	200.7
Chromium (Cr)	ND	0.01	1	200.7
Cobalt (Co)	ND	0.02	1	200.7
Copper (Cu)	ND	0.02	1	200.7
Lead (Pb)	ND	0.01	1	200.7
Mercury (Hg)	ND	0.0005	1	245.1
Molybdenum (Mo)	ND	0.1	1	200.7
Nickel (Ni)	ND	0.05	1	200.7
Selenium (Se)	ND	0.02	1	200.7
Silver (Ag)	ND	0.02	1	200.7
Thallium (Tl)	ND	0.02	1	200.7
Vanadium (V)	ND	0.1	1	200.7
Zinc (Zn)	ND	0.01	1	200.7

**COMMENTS**

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection limit, or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/24/17

REPORT TO: MR. RICHARD ORR


DATE REPORTED: 03/30/17

**EPA 6010B FOR STLC-LEAD  
 UNIT: mg/L IN THE STLC LEACHATE**

SAMPLE I.D.	LAB I.D.	STLC-LEAD RESULT	DF
AL-17-0.5	170321-17	0.106	1
AL-17-1.0	170321-18	ND	1
AL-17-2.5	170321-19	ND	1
AL-17-5.0	170321-20	ND	1
AL-8-0.5	170321-33	0.078	1
AL-8-1.0	170321-34	0.266	1
AL-8-2.5	170321-35	0.218	1
AL-8-5.0	170321-36	ND	1
AL-3-0.5	170321-41	0.306	1
AL-3-1.0	170321-42	0.139	1
AL-3-2.5	170321-43	ND	1
AL-3-5.0	170321-44	ND	1
Method Blank	---	ND	1
	MDL	0.02	
	PQL	0.05	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 STLC = Soluble Threshold Limit Concentration  
 mg/L = Milligram Per Liter = PPM  
 \*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

## QA/QC for Metals Analysis --STLC

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/24/2017

Unit : *mg/L (ppm)*

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170321-44	5.00	103	PASS	0	5.00	4.76	95%	4.74	95%	0%
Chromium(Cr)	170321-44	5.00	97	PASS	0	5.00	4.43	89%	4.46	89%	1%
Lead(Pb)	170321-44	5.00	107	PASS	0	5.00	4.86	97%	4.89	98%	1%

ANALYSIS DATE: 3/20/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170220-50	0.0125	96	PASS	0	0.0125	0.0110	88%	0.0107	86%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --STLC

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/24/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170322-62	5.00	104	PASS	0	5.00	4.78	96%	4.85	97%	1%
Chromium(Cr)	170322-62	5.00	93	PASS	0	5.00	4.78	96%	4.87	97%	2%
Lead(Pb)	170322-62	5.00	108	PASS	0	5.00	4.55	91%	4.56	91%	0%

ANALYSIS DATE: 3/20/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170220-50	0.0125	96	PASS	0	0.0125	0.0110	88%	0.0107	86%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_ 

FINAL REVIEWER: \_\_\_\_\_ 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/20/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/21/17  
DATE ANALYZED: 03/21/17  
DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-6-0.5**

LAB I.D.: 170321-5

-----  
**Organochlorine Pesticides & PCBs Analysis**  
Method: EPA 8081A/8082  
Unit: mg/Kg = Milligram per Kilogram = PPM  
-----

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor


MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/20/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/21/17  
 DATE ANALYZED: 03/21/17  
 DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-6-1.0** LAB I.D.: 170321-6

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/20/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/21/17  
DATE ANALYZED: 03/21/17  
DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-6-2.5**

LAB I.D.: 170321-7

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

#### COMMENTS:

DF = Dilution Factor


MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS CERTIFICATE # 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/20/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/21/17  
 DATE ANALYZED: 03/21/17  
 DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-6-3.0** LAB I.D.: 170321-8

**Organochlorine Pesticides & PCBs Analysis**


Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
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 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/20/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/21/17  
 DATE ANALYZED: 03/21/17  
 DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-5-0.5**

LAB I.D.: 170321-9

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555

## LABORATORY REPORT

CUSTOMER: Leighton & Associates, Inc.  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
PROJECT: 603445.100

MATRIX: SOIL  
SAMPLING DATE: 03/20/17  
REPORT TO: MR. RICHARD ORR  
DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/21/17  
DATE ANALYZED: 03/21/17  
DATE REPORTED: 03/30/17

SAMPLE I.D.: RR-5-1.0

LAB I.D.: 170321-10

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

### COMMENTS:

DF = Dilution Factor

MDL = Method Detection Limit

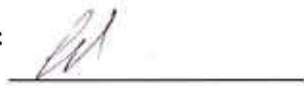
Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
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Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/20/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/21/17  
DATE ANALYZED: 03/21/17  
DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-5-2.5**

LAB I.D.: 170321-11

**Organochlorine Pesticides & PCBs Analysis**  
Method: EPA 8081A/8082  
Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
MDL = Method Detection Limit  
Actual Detection Limit = PQL X DF  
PQL = Practical Quantitation Limit  
J = Trace Concentration between MDL and PQL  
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
CAL-DHS CERTIFICATE # 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/20/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/21/17  
DATE ANALYZED: 03/21/17  
DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-5-5.0**

LAB I.D.: 170321-12

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

#### COMMENTS:

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/20/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/21/17  
 DATE ANALYZED: 03/22/17  
 DATE REPORTED: 03/30/17

SAMPLE I.D.: **AL-3-0.5**

LAB I.D.: 170321-41

**Organochlorine Pesticides Analysis**


method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	5
alpha-BHC	ND	0.001	0.0001	5
beta-BHC	ND	0.001	0.0001	5
gamma-BHC (Lindane)	ND	0.001	0.0001	5
delta-BHC	ND	0.001	0.0001	5
alpha-Chlordane	ND	0.001	0.0001	5
gamma-Chlordane	ND	0.001	0.0001	5
Technical Chlordane	ND	0.005	0.0005	5
4,4'-DDD	ND	0.001	0.0002	5
4,4'-DDE	0.018	0.001	0.0001	5
4,4'-DDT	ND	0.001	0.0001	5
Dieldrin	ND	0.001	0.0002	5
Endosulfan I	ND	0.001	0.0002	5
Endosulfan II	ND	0.001	0.0002	5
Endosulfan Sulfate	ND	0.001	0.0001	5
Endrin	ND	0.001	0.0001	5
Endrin Aldehyde	ND	0.001	0.0001	5
Endrin Ketone	ND	0.001	0.0001	5
Heptachlor Epoxide	ND	0.001	0.0001	5
Heptachlor	ND	0.001	0.0001	5
Methoxychlor	ND	0.001	0.0001	5
Toxaphene	ND	0.020	0.0100	5

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/20/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/21/17  
DATE ANALYZED: 03/22/17  
DATE REPORTED: 03/30/17

SAMPLE I.D.: **AL-3-1.0**


LAB I.D.: 170321-42

**Organochlorine Pesticides Analysis**  
method: EPA 8081A  
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	10
alpha-BHC	ND	0.001	0.0001	10
beta-BHC	ND	0.001	0.0001	10
gamma-BHC (Lindane)	ND	0.001	0.0001	10
delta-BHC	ND	0.001	0.0001	10
alpha-Chlordane	ND	0.001	0.0001	10
gamma-Chlordane	ND	0.001	0.0001	10
Technical Chlordane	ND	0.005	0.0005	10
4,4'-DDD	ND	0.001	0.0002	10
4,4'-DDE	0.077	0.001	0.0001	10
4,4'-DDT	ND	0.001	0.0001	10
Dieldrin	ND	0.001	0.0002	10
Endosulfan I	ND	0.001	0.0002	10
Endosulfan II	ND	0.001	0.0002	10
Endosulfan Sulfate	ND	0.001	0.0001	10
Endrin	ND	0.001	0.0001	10
Endrin Aldehyde	ND	0.001	0.0001	10
Endrin Ketone	ND	0.001	0.0001	10
Heptachlor Epoxide	ND	0.001	0.0001	10
Heptachlor	ND	0.001	0.0001	10
Methoxychlor	ND	0.001	0.0001	10
Toxaphene	ND	0.020	0.0100	10

**COMMENTS:**

DF = Dilution Factor  
MDL = Method Detection Limit  
PQL = Practical Quantitation Limit  
Actual Detection Limit = PQL X DF  
J = Trace Concentration between MDL and PQL  
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
CAL-DHS CERTIFICATE # 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/20/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
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DATE ANALYZED: 03/22/17  
DATE REPORTED: 03/30/17

SAMPLE I.D.: **AL-3-2.5**

LAB I.D.: 170321-43

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	5
alpha-BHC	ND	0.001	0.0001	5
beta-BHC	ND	0.001	0.0001	5
gamma-BHC (Lindane)	ND	0.001	0.0001	5
delta-BHC	ND	0.001	0.0001	5
alpha-Chlordane	ND	0.001	0.0001	5
gamma-Chlordane	ND	0.001	0.0001	5
Technical Chlordane	ND	0.005	0.0005	5
4,4'-DDD	ND	0.001	0.0002	5
4,4'-DDE	0.021	0.001	0.0001	5
4,4'-DDT	ND	0.001	0.0001	5
Dieldrin	ND	0.001	0.0002	5
Endosulfan I	ND	0.001	0.0002	5
Endosulfan II	ND	0.001	0.0002	5
Endosulfan Sulfate	ND	0.001	0.0001	5
Endrin	ND	0.001	0.0001	5
Endrin Aldehyde	ND	0.001	0.0001	5
Endrin Ketone	ND	0.001	0.0001	5
Heptachlor Epoxide	ND	0.001	0.0001	5
Heptachlor	ND	0.001	0.0001	5
Methoxychlor	ND	0.001	0.0001	5
Toxaphene	ND	0.020	0.0100	5

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/20/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/21/17  
DATE ANALYZED: 03/21/17  
DATE REPORTED: 03/30/17

SAMPLE I.D.: **AL-3-5.0**

LAB I.D.: 170321-44

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
CAL-DHS CERTIFICATE # 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/20/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/21/17  
 DATE ANALYZED: 03/21/17  
 DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-3-0.5**

LAB I.D.: 170321-49

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/20/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/21/17  
 DATE ANALYZED: 03/21/17  
 DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-3-1.0**

LAB I.D.: 170321-50

### Organochlorine Pesticides & PCBs Analysis


Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555

### LABORATORY REPORT

CUSTOMER: Leighton & Associates, Inc.  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
PROJECT: 603445.100

MATRIX: SOIL  
SAMPLING DATE: 03/20/17  
REPORT TO: MR. RICHARD ORR  
DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/21/17  
DATE ANALYZED: 03/21/17  
DATE REPORTED: 03/30/17

SAMPLE I.D.: RR-3-2.5

LAB I.D.: 170321-51

#### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082


Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

#### COMMENTS:

DF = Dilution Factor  
MDL = Method Detection Limit  
Actual Detection Limit = PQL X DF  
PQL = Practical Quantitation Limit  
J = Trace Concentration between MDL and PQL  
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/20/17  
REPORT TO: MR. RICHARD ORR  
DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/21/17  
DATE ANALYZED: 03/21/17  
DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-3-5.0**

LAB I.D.: 170321-52

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

#### COMMENTS:

DF = Dilution Factor


MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
CAL-DHS CERTIFICATE # 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/20/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/22/17  
DATE ANALYZED: 03/22/17  
DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-4-0.5**

LAB I.D.: 170321-53

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

#### COMMENTS:

DF = Dilution Factor


MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/20/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/21/17  
 DATE ANALYZED: 03/22/17  
 DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-4-1.0**

LAB I.D.: 170321-54

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082


Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/20/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/21/17  
 DATE ANALYZED: 03/22/17  
 DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-4-2.5**

LAB I.D.: 170321-55

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
 PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/20/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/21/17  
 DATE ANALYZED: 03/22/17  
 DATE REPORTED: 03/30/17

SAMPLE I.D.: **RR-4-5.0**

LAB I.D.: 170321-56

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082


Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL DATE RECEIVED: 03/21/17  
 SAMPLING DATE: 03/20/17 DATE EXTRACTED: 03/21/17  
 REPORT TO: MR. RICHARD ORR DATE ANALYZED: 03/21/17  
 DATE REPORTED: 03/30/17

METHOD BLANK REPORT FOR LAB I.D.:

170321-5, -6, -7, -8, -9, -10, -11, -12, -49, -50, -51, -52, -53, -54,  
 -55, -56

Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

COMMENTS:

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555

**METHOD BLANK REPORT**

CUSTOMER: Leighton & Associates, Inc.  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
 PROJECT: 603445.100

MATRIX: SOIL  
 SAMPLING DATE: 03/20/17  
 REPORT TO: MR. RICHARD ORR  
 DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/21/17  
 DATE ANALYZED: 03/21/17  
 DATE REPORTED: 03/30/17

METHOD BLANK REPORT FOR LAB I.D.: 170321-41 THROUGH -44

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



# Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766    Tel (909)590-5905    Fax (909)690-5907

## EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)**

Date Analyzed: **3/21-22/2017**

Unit: **mg/Kg (ppm)**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.: 170321-55 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00552	110%	0.00604	121%	9%	0-20%	70-130
Aldrin	0.000	0.00500	0.00536	107%	0.00553	111%	3%	0-20%	70-130
4,4-DDE	0.000	0.00500	0.00581	116%	0.00599	120%	3%	0-20%	70-130

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00517	103%	75-125
Aldrin	0.00500	0.00551	110%	75-125
4,4-DDE	0.00500	0.00498	100%	75-125
Dieldrin	0.00500	0.00519	104%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		MB	170321-5	170321-6	170321-7	170321-8	170321-9	170321-10	
Tetra-chloro-meta-xylene	50-150	139%	140%	140%	111%	149%	134%	143%	
Decachlorobiphenyl	50-150	98%	86%	75%	84%	65%	66%	65%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		170321-11	170321-12	170321-41	170321-42	170321-43	170321-44	170321-49	
Tetra-chloro-meta-xylene	50-150	147%	119%	138%	142%	134%	125%	114%	
Decachlorobiphenyl	50-150	57%	58%	62%	71%	61%	63%	57%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		170321-50	170321-51	170321-52	170321-53	170321-54	170321-55	170321-56	
Tetra-chloro-meta-xylene	50-150	145%	125%	125%	147%	128%	130%	142%	
Decachlorobiphenyl	50-150	57%	56%	57%	73%	63%	52%	53%	

S.R. = Sample Result

\* = Surrogate fail due to matrix interference (If Marked)

spk conc = Spike Concentration

Note: LCS, MS, MSD are in control therefore results are in control.

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: \_\_\_\_\_

# Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766      Tel (909)590-5906 Fax (909)690-5907

## EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge**

Date Analyzed: 3/22-23/2017

Unit: mg/Kg(PPM)

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.: 170321-10 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.120	120%	0.125	125%	4%	0-20%	70-130

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.107	107%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	170321-5	170321-6	170321-7	170321-8	170321-9	170321-10	
Tetra-chloro-meta-xylene	50-150	137%	127%	136%	114%	128%	140%	127%	
Decachlorobipneyl	50-150	62%	57%	62%	50%	61%	65%	66%	

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	170321-11	170321-12	170321-49	170321-50	170321-51	170321-52	170321-53	170321-54	
Tetra-chloro-meta-xylene	133%	128%	127%	135%	120%	124%	127%	130%	
Decachlorobipneyl	65%	65%	59%	65%	56%	64%	71%	63%	

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	170321-55	170321-56				
Tetra-chloro-meta-xylene	129%	146%				
Decachlorobipneyl	62%	68%				

S.R. = Sample Result

\* = Surrogate fail due to matrix interference (If Marked)

spk conc = Spike Concentration

Note: LCS, MS, MSD are in control therefore results are in control.

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER  
 SAMPLING DATE: 03/20/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/21/17  
 DATE ANALYZED: 03/27/17  
 DATE REPORTED: 03/30/17

SAMPLE I.D.: **200-3**

LAB I.D.: 170321-58

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1
PCB-1016	ND	1.00	0.50	1
PCB-1221	ND	1.00	0.50	1
PCB-1232	ND	1.00	0.50	1
PCB-1242	ND	1.00	0.50	1
PCB-1248	ND	1.00	0.50	1
PCB-1254	ND	1.00	0.50	1
PCB-1260	ND	1.00	0.50	1

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555





**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: WATER

SAMPLING DATE: 03/20/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17

DATE EXTRACTED: 03/21/17

DATE ANALYZED: 03/27/17

DATE REPORTED: 03/30/17

METHOD BLANK REPORT FOR LAB I.D.: 170321-58

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1
PCB-1016	ND	1.00	0.50	1
PCB-1221	ND	1.00	0.50	1
PCB-1232	ND	1.00	0.50	1
PCB-1242	ND	1.00	0.50	1
PCB-1248	ND	1.00	0.50	1
PCB-1254	ND	1.00	0.50	1
PCB-1260	ND	1.00	0.50	1

**COMMENTS**

DF = Dilution Factor


MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS CERTIFICATE # 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

# EPA 608 QA/QC Report

*5061A*

Matrix: Water/Liquid  
Unit: ug/L

Date Analyzed: 3/27/2017

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

Spiked Sample Lab I.D.: 170323-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0	0.500	0.500	100%	0.540	108%	8%	0-20%	70-130
Aldrin	0	0.500	0.523	105%	0.570	114%	9%	0-20%	70-130
4,4-DDE	0	0.500	0.404	81%	0.432	86%	7%	0-20%	70-130

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.500	0.440	88%	75-125
Aldrin	0.500	0.462	92%	75-125
4,4-DDE	0.500	0.377	75%	75-125
Dieldrin	0.500	0.441	88%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		M-BLK	170321-58	170322-72					
Tetra-chloro-meta-xylene	50-150	114%	143%	129%					
Decachlorobipneyl	50-150	122%	55%	55%					

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.									
Tetra-chloro-meta-xylene									
Decachlorobipneyl									

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

\* = Surrogate fail due to matrix interference

Note: LCS, MS, MSD are in control therefore results are in control.

Final Reviewer: 

## QA/QC Report

Analysis: EPA 608 (PCB)

+ SRP

Matrix: **Water/Liquid**

Date Analyzed: **3/27/2017**

Unit: **ug/L (PPB)**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **170321-58 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP % RPD	ACP %REC
PCB (1016+1260)	0	10.0	10.2	<b>102%</b>	11.16	<b>112%</b>	<b>9%</b>	0-20%	70-130

LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	10.0	12.5	<b>125%</b>	75-125

S.R. = Sample Result  
 spk conc = Spike Concentration  
 %REC = Percent Recovery  
 ACP %RPD = Acceptable Percent RPD Range  
 ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer:  \_\_\_\_\_

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS
		DATE	TIME										
RR-6-0.5	170321-5	3/20/16	0919	Soil	1	ICE		X	X	X	X	X	
RR-6-1.0	-6		0922					X	X	X	X	X	
RR-6-2.5	-7		0924					X	X	X	X	X	
RR-6-3.0	-8		0940					X	X	X	X	X	
RR-5-0.5	-9		0945					X	X	X	X	X	
RR-5-1.0	-10		0950					X	X	X	X	X	
RR-5-2.5	-11		0950					X	X	X	X	X	
RR-5-5.0	-12		0955					X	X	X	X	X	
AL-18-0.5	-13		1028				X						
AL-18-1.0	-14		1029				X						
AL-18-2.5	-15		1025				X						
AL-18-5.0	-16		1024				X						
AL-17-0.5	-17		1049				X					X	
AL-17-1.0	-18		1048				X					X	
AL-17-2.5	-19		1046				X					X	

GOLD B PB  
 60103/2471A  
 8081A  
 8015 COID  
 8310  
 8082  
 5720 PB  
 CA WET

Misc./PO#  
 Sample from red cap end

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>Lei-Chun Gu</u>	Date & Time: <u>3/21/17 8:50</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>Richard Orr</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/21/17 9:50</u>	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="radio"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 3/20/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required		COMMENTS
		DATE	TIME							
AL-17-9.0	170321-20	3/20/17	1044	Soil	1 pt	ice	X	X		
AL-11-0.5	-21		1108				X			
AL-11-1.0	-22		1106				X			
AL-11-2.5	-23		1105				X			
AL-11-5.0	-24		1104				X			
AL-10-0.5	-25		1127				X			
AL-10-1.0	-26		1125				X			
AL-10-2.5	-27		1124				X			
AL-10-5.0	-28		1123				X			
AL-9-0.5	-29		1141				X			
AL-9-1.0	-30		1140				X			
AL-9-2.5	-31		1139				X			
AL-9-5.0	-32		1137				X			
AL-8-0.5	-33		1154				X	X		
AL-8-1.0	-34		1155				X	X		

*GOLD/BP  
SYLL Pb  
CA WET*

Misc./PO#  
*Sample from red cap end*

Company Name: <i>Leighton Consulting</i>	Project Contact: <i>Richard Orr</i>	Sampler's Signature: <i>[Signature]</i>
Address: <i>10532 Acacia St Ste B6</i>	Tel: <i>(909) 484-2205</i>	Project Name/ID: <i>603445-100</i>
City/State/Zip: <i>Rancho Cucamonga</i>	Fax/Email: <i>(909) 484-2070</i>	

Relinquished by: <i>[Signature]</i>	Received by: <i>Pei-Chen Sun</i>	Date & Time: <i>3/21/17 8:55</i>	Instructions for Sample Storage After Analysis: <input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days) <input type="radio"/> Other:
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: <i>3/21/17 9:10</i>	
Relinquished by:	Received by:	Date & Time:	

Date: 3/20/17

**CHAIN OF CUSTODY RECORD**

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)
- Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required								COMMENTS		
								6010B Pb	STC Pb	CA WET	6010B As	8081A	PH	6010B/7471A	8310		8082	8015 CCID
AL-8-2.5	170321-35	3/20/17	1157	Soil	1 pt	ice	X	X										
AL-8-5.0	-36		1204				X	X										
AL-5-0.5	-37		1254				X											
AL-5-1.0	-38		1254				X											
AL-5-2.5	-39		1253				X											
AL-5-5.0	-40		1252				X											
AL-3-0.5	-41		1311			4876x	X	X	X	X	X							
AL-3-1.0	-42		1309				X	X	X	X	X							
AL-3-2.5	-43		1307				X	X	X	X	X							
AL-3-5.0	-44		1306				X	X	X	X	X							
AL-20-0.5	-45		1356				X											
AL-20-1.0	-46		1354				X											
AL-20-2.5	-47		1353				X											
AL-20-5.0	-48		1352				X											
RR-3-0.5	-49		1437							X	X	X	X					

Company Name:

Leighton Consulting

Project Contact:

Richard Orr

Sampler's Signature:

*[Signature]*

Address: 10532 Acacia St Ste B6

Tel: (909) 484-2205

Project Name/ID:

603445-100

City/State/Zip: Rancho Cucamonga CA 91730

Fax/Email: (909) 484-2170

Relinquished by:

*[Signature]*  
*[Signature]*

Received by:

*[Signature]*  
*[Signature]*

Date & Time:

3/21/17

Instructions for Sample Storage After Analysis:

Relinquished by:

Received by:

Date & Time:

3/21/17  
8:55  
9:50

Dispose of  Return to Client  Store (30 Days)

Relinquished by:

Received by:

Date & Time:

Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/20/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours

1 Week (Standard)

Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS
		DATE	TIME					6010B/7471A	8081A	8082	8015 cc 10	8310	
RR-3-1.0	170321-50	3/20/17	1439	soil	1	14F	10C	X	X	X	X	X	
RR-3-2.5	-51		1440					X	X	X	X	X	
RR-3-5.0	-52		1444					X	X	X	X	X	
RR-4-0.5	-53		1446					X	X	X	X	X	
RR-4-1.0	-54		1448					X	X	X	X	X	
RR-4-2.5	-55		1450					X	X	X	X	X	
RR-4-5.0	-56		1452					X	X	X	X	X	
100-#	-57		1504	water	1	1500ml pb	11/20/03						X
200-3	-58		1503		4	3LA		X	X	X	X	X	
						1 X 500ml pb							

Misc./PO#  
Sample from red cap end

Company Name: Leighton Consulting  
Address: 10532 Acaela St Ste B6  
City/State/Zip: Rancho Cucamonga CA 91730

Project Contact: Richard Orr  
Tel: (909) 484-2205  
Fax/Email: (909) 484-7170

Sampler's Signature: [Signature]  
Project Name/ID: 607445-100

Relinquished by: [Signature]  
Relinquished by: [Signature]  
Relinquished by:

Received by: [Signature]  
Received by: [Signature]  
Received by:

Date & Time: 3/21/17 5:50  
Date & Time: 3/21/17 9:15  
Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/20/17

WHITE WITH SAMPLE • YELLOW TO CLIENT



## American Environmental Testing Laboratory Inc.

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### Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Number of Pages 8  
Date Received 03/22/2017  
Date Reported 03/29/2017

Telephone: (909)590-5905  
Attention: Curtis Desilets

Job Number	Order Date	Client
87061	03/22/2017	ENVIRO

Project ID: 603445-100  
Project Name: (170321-5~58)

Enclosed please find results of analyses of 16 soil and 1 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



87081

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS		
		DATE	TIME																	
RR-6-0.5(170321-5)	87081.01	3/20/17	0919	SOIL	1		None	X												
RR-6-1.0(170321-6)	87081.02		0922																	
RR-6-2.5(170321-7)	87081.03		0924																	
RR-6-3.0(170321-8)	87081.04		0940																	
RR-5-0.5(170321-9)	87081.05		0945																	
RR-5-1.0(170321-10)	87081.06		0950																	
RR-5-2.5(170321-11)	87081.07		0950																	
RR-5-5.0(170321-12)	87081.08		0955																	
RR-3-0.5(170321-49)	87081.09		1437																	
RR-3-1.0(170321-50)	87081.10		1439																	
RR-3-2.5(170321-51)	87081.11		1440																	
RR-3-5.0(170321-52)	87081.12		1444																	
RR-4-0.5(170321-53)	87081.13		1446																	
RR-4-1.0(170321-54)	87081.14		1448																	
RR-4-2.5(170321-55)	87081.15		1450																	

Misc./PO#  
 AETL

PAH 8310

Company Name: **Enviro-Chem, Inc** Project Contact: **Curtis Desilets** Sampler's Signature: \_\_\_\_\_  
 Address: **1214 E. Lexington Avenue** Tel: **909-590-5905** Project Name/ID: **603445-100**  
 City/State/Zip: **Pomona, CA 91766** Fax: **envirocheminc@gmail.com** **(170321-5 to -58)**

Relinquished by:	Received by:	Date & Time: <b>3/22/17 0820</b>	Instructions for Sample Storage After Analysis: <input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days) <input type="checkbox"/> Other:
Relinquished by: _____	Received by: _____	Date & Time: _____	
Relinquished by:	Received by:	Date & Time: <b>03/22/17 1110</b>	

**CHAIN OF CUSTODY RECORD**

87041

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766  
Tel: (909) 590-5905 Fax: (909) 590-5907  
CA-DHS ELAP CERTIFICATE #1555

Turnaround Time  
0 Same Day  
0 24 Hours  
0 48 Hours  
0 72 Hours  
 1 Week (Standard)  
Other:

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	PAH B310										Misc./PO#
														AETL

SAMPLE ID	LAB ID	SAMPLING		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS						
		DATE	TIME																					
RR-4-5.0 (170321-50)	87081.16	3/20/17	1452	SOIL	1		NONE	<input checked="" type="checkbox"/>																
200-3 (170321-50)	87081.17	"	1503	↓	1		NONE	<input checked="" type="checkbox"/>																

Company Name: <b>Enviro-Chem, Inc</b>			Project Contact: <b>Curtis Desilets</b>			Sampler's Signature:		
Address: <b>1214 E. Lexington Avenue</b>			Tel: <b>909-590-5905</b>			Project Name/ID: <b>603445-100</b>		
City/State/Zip: <b>Pomona, CA 91766</b>			Fax: <b>envirocheminc @ gmail.com</b>			<b>(170321-5 to-50)</b>		
Relinquished by:		Received by:		Date & Time: <b>3/22/17 0920</b>		Instructions for Sample Storage After Analysis: <input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days) <input type="checkbox"/> Other:		
Relinquished by:		Received by:		Date & Time:				
Relinquished by:		Received by:		Date & Time: <b>03/22/17 1110</b>				

**CHAIN OF CUSTODY RECORD**

Date: \_\_\_\_\_

WHITE WITH SAMPLE • YELLOW TO CLIENT



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## COOLER RECEIPT FORM

Client Name: <i>Environ Chem</i>			
Project Name:			
AETL Job Number: <i>87061</i>			
Date Received: <i>03/22/17</i> Received by: <i>Jean Claude</i>			
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler ( <i>1</i> ) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <i>32.5</i> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input checked="" type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO <sub>3</sub> , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , <input type="checkbox"/> MeOH			
<input checked="" type="checkbox"/> Other (Specify):			
	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	<input checked="" type="checkbox"/>		
2. Are the Sample labels legible?	<input checked="" type="checkbox"/>		
3. Do samples match the COC?	<input checked="" type="checkbox"/>		
4. Are the required analyses clear?	<input checked="" type="checkbox"/>		
5. Is there enough samples for required analysis?	<input checked="" type="checkbox"/>		
6. Are samples sealed with evidence tape?	<i>NA</i>		
7. Are sample containers in good condition?	<input checked="" type="checkbox"/>		
8. Are samples preserved?	<input checked="" type="checkbox"/>		
9. Are samples preserved properly for the intended analysis?	<input checked="" type="checkbox"/>		
10. Are the VOAs free of headspace?	<i>NA</i>		
11. Are the jars free of headspace?	<input checked="" type="checkbox"/>		

Explain all "No" answers for above questions:

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Page: 1 A

## Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Project ID: 603445-100  
Date Received 03/22/2017  
Date Reported 03/29/2017

Telephone: (909) 590-5905  
Attention: Curtis Desilets

Job Number	Order Date	Client
87061	03/22/2017	ENVIRO

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 17 samples with the following specification on 03/22/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
87061.17	200.3(170321-58)	03/20/2017	Aqueous	1
	<i>Method ^ Submethod</i>	<i>Req Date</i>	<i>Priority</i>	<i>TAT</i>
	8310	03/29/2017	2	Normal
	<i>Units</i>			ug/L
Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
87061.01	RR-6-0.5(170321-5)	03/20/2017	Soil	1
87061.02	RR-6-1.0(170321-6)	03/20/2017	Soil	1
87061.03	RR-6-2.5(170321-7)	03/20/2017	Soil	1
87061.04	RR-6-3.0(170321-8)	03/20/2017	Soil	1
87061.05	RR-5-0.5(170321-9)	03/20/2017	Soil	1
87061.06	RR-5-1.0(170321-10	03/20/2017	Soil	1
	)			
87061.07	RR-5-2.5(170321-11	03/20/2017	Soil	1
	)			
87061.08	RR-5-5.0(170321-12	03/20/2017	Soil	1
	)			
87061.09	RR-3-0.5(170321-49	03/20/2017	Soil	1
	)			
87061.10	RR-3-1.0(170321-50	03/20/2017	Soil	1
	)			
87061.11	RR-3-2.5(170321-51	03/20/2017	Soil	1
	)			
87061.12	RR-3-5.0(170321-52	03/20/2017	Soil	1
	)			
87061.13	RR-4-0.5(170321-53	03/20/2017	Soil	1
	)			

Continued



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Page: 1 B

### Ordered By

Enviro-Chem Laboratories  
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Pomona, CA 91766-5519

Project ID: 603445-100  
Date Received 03/22/2017  
Date Reported 03/29/2017

Telephone: (909) 590-5905  
Attention: Curtis Desilets

Job Number	Order Date	Client
87061	03/22/2017	ENVIRO

## CERTIFICATE OF ANALYSIS

### CASE NARRATIVE

87061.14	RR-4-1.0(170321-54 03/20/2017	Soil	1		
	)				
87061.15	RR-4-2.5(170321-55 03/20/2017	Soil	1		
	)				
87061.16	RR-4-5.0(170321-56 03/20/2017	Soil	1		
	)				
Method	Submethod	Req Date	Priority	TAT	Units
(8310)		03/29/2017	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 2

Project ID: 603445-100

Project Name: (170321-5~58)

AETL Job Number	Submitted	Client
87061	03/22/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032317IB1

Our Lab I.D.		Method Blank	87061.01	87061.02	87061.03	87061.04	
Client Sample I.D.			RR-6-0.5(170 321-5)	RR-6-1.0(170 321-6)	RR-6-2.5(170 321-7)	RR-6-3.0(170 321-8)	
Date Sampled			03/20/2017	03/20/2017	03/20/2017	03/20/2017	
Date Prepared		03/23/2017	03/23/2017	03/23/2017	03/23/2017	03/23/2017	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/24/2017	03/24/2017	03/24/2017	03/24/2017	03/24/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.010	0.020	ND	0.0110J	0.0120J	0.0352	ND
Benzo(b)fluoranthene	0.010	0.020	ND	ND	ND	0.0225	ND
Benzo(k)fluoranthene	0.010	0.020	ND	ND	ND	0.0132J	ND
Chrysene	0.010	0.020	ND	ND	ND	0.0130J	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	ND	0.0196J	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	ND	0.0293	ND
Fluoranthene	0.010	0.020	ND	ND	0.0134J	0.0253	ND
Fluorene	0.010	0.020	ND	0.0255	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	ND	0.0113J	0.0266	ND
Pyrene	0.010	0.020	ND	0.0106J	0.0129J	0.0274	ND
Our Lab I.D.		Method Blank	87061.01	87061.02	87061.03	87061.04	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125	111	109	111	111	117	



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## ANALYTICAL RESULTS

### Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 3

Project ID: 603445-100

Project Name: (170321-5~58)

AETL Job Number	Submitted	Client
87061	03/22/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032317IB1

Our Lab I.D.		87061.05	87061.06	87061.07	87061.08	87061.09	
Client Sample I.D.		RR-5-0.5(170 321-9)	RR-5-1.0(170 321-10)	RR-5-2.5(170 321-11)	RR-5-5.0(170 321-12)	RR-3-0.5(170 321-49)	
Date Sampled		03/20/2017	03/20/2017	03/20/2017	03/20/2017	03/20/2017	
Date Prepared		03/23/2017	03/23/2017	03/23/2017	03/23/2017	03/23/2017	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/24/2017	03/24/2017	03/24/2017	03/24/2017	03/24/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	0.0111J
Benzo(a)pyrene	0.010	0.020	ND	0.0326	0.0104J	ND	0.0349
Benzo(b)fluoranthene	0.010	0.020	ND	0.0334	ND	ND	0.0242
Benzo(k)fluoranthene	0.010	0.020	ND	0.0164J	ND	ND	0.0151J
Chrysene	0.010	0.020	ND	0.0361	0.0128J	ND	0.0430
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.0202	ND	ND	0.0261
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	0.0295	ND	ND	0.0521
Fluoranthene	0.010	0.020	ND	0.0488	0.0108J	ND	0.0415
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	0.0368	ND	ND	0.0357
Pyrene	0.010	0.020	ND	0.0523	0.0106J	ND	0.0390
Our Lab I.D.		87061.05	87061.06	87061.07	87061.08	87061.09	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125	111	107	111	107	109	



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## ANALYTICAL RESULTS

### Ordered By

Enviro-Chem Laboratories  
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Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 4

Project ID: 603445-100

Project Name: (170321-5~58)

AETL Job Number	Submitted	Client
87061	03/22/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032317IB1

Our Lab I.D.			87061.10	87061.11	87061.12	87061.13	87061.14
Client Sample I.D.			RR-3-1.0(170 321-50)	RR-3-2.5(170 321-51)	RR-3-5.0(170 321-52)	RR-4-0.5(170 321-53)	RR-4-1.0(170 321-54)
Date Sampled			03/20/2017	03/20/2017	03/20/2017	03/20/2017	03/20/2017
Date Prepared			03/23/2017	03/23/2017	03/23/2017	03/23/2017	03/23/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/24/2017	03/24/2017	03/24/2017	03/24/2017	03/24/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	ND	0.0226	0.0215	ND
Benzo(a)pyrene	0.010	0.020	ND	0.0124J	0.0578	0.0673	0.0100J
Benzo(b)fluoranthene	0.010	0.020	ND	ND	0.0334	0.0405	ND
Benzo(k)fluoranthene	0.010	0.020	ND	ND	0.0301	0.0298	ND
Chrysene	0.010	0.020	ND	0.0125J	0.0758	0.108	0.0108J
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	0.0476	0.0421	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	0.0448	0.0456	ND
Fluoranthene	0.010	0.020	ND	0.0100J	0.0680	0.0814	ND
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	0.0148J	0.0272	0.0477	0.0103J
Pyrene	0.010	0.020	ND	0.0109J	0.0484	0.0783	ND
Our Lab I.D.			87061.10	87061.11	87061.12	87061.13	87061.14
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
p-Terphenyl-D14	75-125		106	108	109	118	110





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## ANALYTICAL RESULTS

### Ordered By

Enviro-Chem Laboratories  
 1214 E. Lexington Avenue  
 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 5

Project ID: 603445-100

Project Name: (170321-5~58)

AETL Job Number	Submitted	Client
87061	03/22/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032317IB1

Our Lab I.D.			87061.15	87061.16		
Client Sample I.D.			RR-4-2.5(170 321-55)	RR-4-5.0(170 321-56)		
Date Sampled			03/20/2017	03/20/2017		
Date Prepared			03/23/2017	03/23/2017		
Preparation Method			3550B	3550B		
Date Analyzed			03/24/2017	03/24/2017		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND		
Benzo(a)pyrene	0.010	0.020	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	ND	ND		
Chrysene	0.010	0.020	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	ND		
Fluoranthene	0.010	0.020	ND	ND		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	ND		
Pyrene	0.010	0.020	ND	ND		
Our Lab I.D.			87061.15	87061.16		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		115	106		



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## ANALYTICAL RESULTS

### Ordered By

Enviro-Chem Laboratories  
 1214 E. Lexington Avenue  
 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 6

Project ID: 603445-100

Project Name: (170321-5~58)

AETL Job Number	Submitted	Client
87061	03/22/2017	ENVIRO

Method: 8310, Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032217IB1

<b>Our Lab I.D.</b>			Method Blank	<b>87061.17</b>		
Client Sample I.D.				200.3(170321-58)		
Date Sampled				03/20/2017		
Date Prepared			03/22/2017	03/22/2017		
Preparation Method			3510C	3510C		
Date Analyzed			03/22/2017	03/22/2017		
Matrix			Aqueous	Aqueous		
Units			ug/L	ug/L		
Dilution Factor			1	1		
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>		
Benzo(a)anthracene	0.10	0.20	ND	ND		
Benzo(a)pyrene	0.10	0.20	ND	ND		
Benzo(b)fluoranthene	0.10	0.20	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	ND	ND		
Chrysene	0.10	0.20	ND	ND		
Dibenzo(a,h)anthracene	0.10	0.20	ND	ND		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Acenaphthene	0.10	0.20	ND	ND		
Acenaphthylene	0.10	0.20	ND	ND		
Anthracene	0.10	0.20	ND	ND		
Benzo(g,h,i)perylene	0.10	0.20	ND	ND		
Fluoranthene	0.10	0.20	ND	ND		
Fluorene	0.10	0.20	ND	ND		
Naphthalene	0.10	0.20	ND	ND		
Phenanthrene	0.10	0.20	ND	ND		
Pyrene	0.10	0.20	ND	ND		
<b>Our Lab I.D.</b>			Method Blank	<b>87061.17</b>		
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>		
p-Terphenyl-D14	75-125		98.3	111		



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## QUALITY CONTROL RESULTS

### Ordered By

Enviro-Chem Laboratories  
 1214 E. Lexington Avenue  
 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 7

Project ID: 603445-100

Project Name: (170321-5~58)

AETL Job Number	Submitted	Client
87061	03/22/2017	ENVIRO

Method: 8310, Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032217IB1; Dup or Spiked Sample: 0322; LCS: Clean Water; QC Prepared: 03/22/2017; QC Analyzed: 03/22/2017;  
 Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.500	0.435	87.0	0.500	0.430	86.0	1.2	75-125	<20
Benzo(a)pyrene	0.00	0.500	0.415	83.0	0.500	0.411	82.2	<1	75-125	<20
Naphthalene	0.00	5.00	4.50	90.0	5.00	4.38	87.6	2.7	70-120	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	4.00	4.32	108	4.00	4.12	103	4.7	75-125	<20

QC Batch No: 032217IB1; Dup or Spiked Sample: 0322; LCS: Clean Water; QC Prepared: 03/22/2017; QC Analyzed: 03/22/2017;  
 Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.500	0.448	89.6	75-125						
Benzo(a)pyrene	0.500	0.429	85.8	75-125						
Naphthalene	5.00	4.43	88.6	70-120						
<b>LCS</b>										
Acenaphthene	5.00	4.15	83.0	75-125						
Acenaphthylene	10.0	8.78	87.8	75-125						
Anthracene	0.500	0.480	96.6	75-125						
Benzo(b)fluoranthene	1.00	0.930	93.1	75-125						
Benzo(g,h,i)perylene	1.00	0.890	88.6	75-125						
Benzo(k)fluoranthene	0.500	0.490	97.8	75-125						
Chrysene	0.500	0.460	92.4	75-125						
Dibenzo(a,h)anthracene	1.00	0.910	90.6	75-125						
Fluoranthene	1.00	0.870	86.7	75-125						
Fluorene	1.00	0.800	80.1	75-125						
Indeno(1,2,3-cd)pyrene	0.500	0.480	95.6	75-125						
Phenanthrene	0.500	0.440	87.6	75-125						
Pyrene	0.500	0.470	94.0	60-110						
<b>Surrogates</b>										
p-Terphenyl-D14	4.00	4.28	107	75-125						



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## QUALITY CONTROL RESULTS

### Ordered By

Enviro-Chem Laboratories  
 1214 E. Lexington Avenue  
 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 8

Project ID: 603445-100

Project Name: (170321-5~58)

AETL Job Number	Submitted	Client
87061	03/22/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032317IB1; Dup or Spiked Sample: 87061.05; LCS: Clean Sand; QC Prepared: 03/23/2017; QC Analyzed: 03/24/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0430	86.0	0.0500	0.0421	84.2	2.1	75-125	<20
Benzo(a)pyrene	0.00260	0.0500	0.0498	94.4	0.0500	0.0469	88.6	6.3	75-125	<20
Naphthalene	0.00	0.500	0.466	93.2	0.500	0.469	93.8	<1	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.452	113	0.400	0.444	111	1.8	75-125	<20

QC Batch No: 032317IB1; Dup or Spiked Sample: 87061.05; LCS: Clean Sand; QC Prepared: 03/23/2017; QC Analyzed: 03/24/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzo(a)anthracene	0.0500	0.0458	91.6	0.0500	0.0453	90.6	1.1	75-125	<20
Benzo(a)pyrene	0.0500	0.0446	89.2	0.0500	0.0442	88.4	<1	75-125	<20
Naphthalene	0.500	0.476	95.2	0.500	0.462	92.4	3.0	75-125	<20
<b>LCS</b>									
Acenaphthene	0.500	0.442	88.4	0.500	0.428	85.6	3.2	75-125	<20
Acenaphthylene	1.00	0.920	92.0	1.00	0.906	90.6	1.5	75-125	<20
Anthracene	0.0500	0.0505	101	0.0500	0.0493	98.6	2.4	75-125	<20
Benzo(b)fluoranthene	0.100	0.0929	92.9	0.100	0.0921	92.1	<1	75-125	<20
Benzo(g,h,i)perylene	0.100	0.0943	94.3	0.100	0.0947	94.7	<1	75-125	<20
Benzo(k)fluoranthene	0.0500	0.0486	97.2	0.0500	0.0480	96.0	1.2	75-125	<20
Chrysene	0.0500	0.0472	94.4	0.0500	0.0467	93.4	1.1	75-125	<20
Dibenzo(a,h)anthracene	0.100	0.0906	90.6	0.100	0.0918	91.8	1.3	75-125	<20
Fluoranthene	0.100	0.0869	86.9	0.100	0.0862	86.2	<1	75-125	<20
Fluorene	0.100	0.0826	82.6	0.100	0.0813	81.3	1.6	75-125	<20
Indeno(1,2,3-cd)pyrene	0.0500	0.0464	92.8	0.0500	0.0463	92.6	<1	75-125	<20
Phenanthrene	0.0500	0.0443	88.6	0.0500	0.0432	86.4	2.5	75-125	<20
Pyrene	0.0500	0.0476	95.2	0.0500	0.0466	93.2	2.1	75-125	<20
<b>Surrogates</b>									
p-Terphenyl-D14	0.400	0.424	106	0.400	0.424	106	<1	75-125	<20



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---

**Enviro - Chem, Inc.**

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

Date: March 30, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170321-5 through -58**

Dear Mr. Orr:

The **analytical results** for the soil and water samples, received by our lab on March 21, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

Enviro - Chem, Inc.

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

LABORATORY REPORT

CUSTOMER: Leighton & Associates, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/20/17

DATE ANALYZED: 03/24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 03/30/17

EPA 6010B FOR STLC-LEAD
UNIT: mg/L IN THE STLC LEACHATE

Table with 4 columns: SAMPLE I.D., LAB I.D., STLC-LEAD RESULT, DF. Rows include AL-10-1.0 (0.870), Method Blank (ND), MDL (0.02), and PQL (0.05).

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
STLC = Soluble Threshold Limit Concentration
mg/L = Milligram Per Liter = PPM
\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555



## QA/QC for Metals Analysis --STLC

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/24/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170321-44	5.00	103	PASS	0	5.00	4.76	95%	4.74	95%	0%
Chromium(Cr)	170321-44	5.00	97	PASS	0	5.00	4.43	89%	4.46	89%	1%
Lead(Pb)	170321-44	5.00	107	PASS	0	5.00	4.86	97%	4.89	98%	1%

ANALYSIS DATE: 3/20/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170220-50	0.0125	96	PASS	0	0.0125	0.0110	88%	0.0107	86%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours

1 Week (Standard)

Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS	
		DATE	TIME					6010B Pb	6010B/7471A	8081A	8015 acid	8310		8082
RR-6-0.5	170321-5	3/20/16	0919	Sed	1	40°C	ice	X	X	X	X	X		
RR-6-1.0	-6		0922					X	X	X	X	X		
RR-6-2.5	-7		0924					X	X	X	X	X		
RR-6-3.0	-8		0940					X	X	X	X	X		
RR-5-0.5	-9		0945					X	X	X	X	X		
RR-5-1.0	-10		0950					X	X	X	X	X		
RR-5-2.5	-11		0950					X	X	X	X	X		
RR-5-5.0	-12		0955					X	X	X	X	X		
AL-18-0.5	-13		1028					X						
AL-18-1.0	-14		1029					X						
AL-18-2.5	-15		1025					X						
AL-18-5.0	-16		1024					X						
AL-17-0.5	-17		1049					X				X		
AL-17-1.0	-18		1048					X				X		
AL-17-2.5	-19		1046					X				X		

6010B Pb  
6010B/7471A  
8081A  
8015 acid  
8310  
8082  
5120 Pb  
CA WET

Misc./PO#  
Sample from red cap end

Company Name: Leighton Consulting  
Address: 10532 Acacia St Ste B6  
City/State/Zip: Rancho Cucamonga, CA 91730

Project Contact: Richard Orr  
Tel: (909) 484-2205  
Fax/Email: (909) 484-2170

Sampler's Signature: [Signature]  
Project Name/ID: 603445-100

Relinquished by: [Signature]  
Relinquished by: [Signature]  
Relinquished by:

Received by: Kei-Chun Gu  
Received by: [Signature]  
Received by:

Date & Time: 3/21/17 8:50  
Date & Time: 3/21/17 9:50  
Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/20/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	GOLD BB SYCC Pb CA WET					Misc./PO# Sample from red cap end
--------	-------------------	-------------	--------------	------------------------------	--	--	--	--	--

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required		COMMENTS
		DATE	TIME							
AL-17-9.0	170321-20	3/20/17	1044	Soil	1 pt	ice	X	X		
AL-11-0.5	-21		1108				X			
AL-11-1.0	-22		1106				X			
AL-11-2.5	-23		1105				X			
AL-11-5.0	-24		1104				X			
AL-10-0.5	-25		1127				X			
AL-10-1.0	-26		1125				X			
AL-10-2.5	-27		1124				X			
AL-10-5.0	-28		1123				X			
AL-9-0.5	-29		1141				X			
AL-9-1.0	-30		1140				X			
AL-9-2.5	-31		1139				X			
AL-9-5.0	-32		1137				X			
AL-8-0.5	-33		1154				X	X		
AL-8-1.0	-34		1155				X	X		

Company Name: <i>Leighton Consulting</i>	Project Contact: <i>Richard Orr</i>	Sampler's Signature: <i>[Signature]</i>
Address: <i>10532 Acacia St Ste B6</i>	Tel: <i>(909) 484-2205</i>	Project Name/ID: <i>603445-100</i>
City/State/Zip: <i>Rancho Cucamonga</i>	Fax/Email: <i>(909) 484-2070</i>	

Relinquished by: <i>[Signature]</i>	Received by: <i>Pei-Chen Sun</i>	Date & Time: <i>3/21/17 8:55</i>	Instructions for Sample Storage After Analysis: <input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days) <input type="radio"/> Other:
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: <i>3/21/17 9:10</i>	
Relinquished by:	Received by:	Date & Time:	

**CHAIN OF CUSTODY RECORD**

Date: 3/20/17

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS							
		DATE	TIME					6010B Pb	5700 Pb	CAVET	6010B As	8081A	PH	6010B/7471A	8310	8082	8015 CCID		Misc./PO#						
AL-8-2.5	170321-35	3/20/17	1157	Soil	1 pt		ice	X	X																
AL-8-5.0	-36		1204					X	X																
AL-5-0.5	-37		1254					X																	
AL-5-1.0	-38		1254					X																	
AL-5-2.5	-39		1253					X																	
AL-5-5.0	-40		1252					X																	
AL-3-0.5	-41		1311					X	X	X	X	X													
AL-3-1.0	-42		1309					X	X	X	X	X													
AL-3-2.5	-43		1307					X	X	X	X	X													
AL-3-5.0	-44		1306					X	X	X	X	X													
AL-20-0.5	-45		1356					X																	
AL-20-1.0	-46		1354					X																	
AL-20-2.5	-47		1353					X																	
AL-20-5.0	-48		1352					X																	
RR-3-0.5	-49		1437										X	X	X	X	X								

Company Name: Leighton Consulting  
 Address: 10532 Acacia St Ste B6  
 City/State/Zip: Rancho Cucamonga CA 91750

Project Contact: Richard Orr  
 Tel: (909) 484-2205  
 Fax/Email: (909) 484-2170

Sampler's Signature: [Signature]  
 Project Name/ID: 608445-100

Relinquished by: [Signature]  
 Relinquished by: [Signature]  
 Relinquished by:

Received by: [Signature]  
 Received by: [Signature]  
 Received by:

Date & Time: 3/21/17 8:50  
 Date & Time: 3/21/17 9:50  
 Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

Date: 3/20/17

**CHAIN OF CUSTODY RECORD**

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours

1 Week (Standard)

Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS
		DATE	TIME					6010B/7471A	8081A	8082	8015 cc/v	8310	
RR-3-1.0	170321-50	3/20/17	1439	soil	1	1481	100	X	X	X	X	X	
RR-3-2.5	-51		1440					X	X	X	X	X	
RR-3-5.0	-52		1444					X	X	X	X	X	
RR-4-0.5	-53		1446					X	X	X	X	X	
RR-4-1.0	-54		1448					X	X	X	X	X	
RR-4-2.5	-55		1450					X	X	X	X	X	
RR-4-5.0	-56		1452					X	X	X	X	X	
100-#	-57		1504	water	1	1500							X
200-3	-58		1503		4	3LA		X	X	X	X	X	

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acaela St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>607445-100</u>	
City/State/Zip: <u>Rancho Cucamonga CA 91730</u>		Fax/Email: <u>(909) 484-7170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>Richard Orr</u>	Date & Time: <u>3/21/17</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/21/17</u>	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="radio"/> Other:		

**Enviro - Chem, Inc.**

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

Date: April 3, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170322-13 through -72**

Dear Mr. Orr:

The **analytical results** for the soil and water samples, received by our lab on March 22, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**LABORATORY REPORT**

CUSTOMER: Leighton Consulting, Inc.  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
 PROJECT: 603445.100

MATRIX: SOIL  
 SAMPLING DATE: 03/21/17  
 REPORT TO: MR. RICHARD ORR

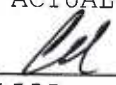
DATE RECEIVED: 03/22/17  
 DATE EXTRACTED: 03/28/17  
 DATE ANALYZED: 03/28/17  
 DATE REPORTED: 04/03/17

**TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS**  
 METHOD: EPA 8015B  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
RR-1-0.5	170322-13	ND	ND	ND	1
RR-1-1.0	170322-14	ND	ND	ND	1
RR-1-5.0	170322-15	ND	ND	ND	1
RR-2-0.5	170322-16	ND	ND	ND	1
RR-2-1.0	170322-17	ND	ND	ND	1
RR-2-2.5	170322-18	ND	ND	ND	1
RR-2-5.0	170322-19	ND	ND	ND	1
<b>METHOD BLANK</b>		ND	ND	ND	1
	<b>MDL</b>	<b>5</b>	<b>5</b>	<b>25</b>	
	<b>PQL</b>	<b>10</b>	<b>10</b>	<b>50</b>	

**COMMENTS**

C4-C10 = GASOLINE RANGE  
 C11-C22 = DIESEL RANGE  
 C23-C35 = MOTOR OIL RANGE  
 DF = DILUTION FACTOR  
 MDL = METHOD DETECTION LIMIT  
 PQL = PRACTICAL QUANTITATION LIMIT  
 J = TRACE CONCENTRATION BETWEEN MDL AND PQL  
 ACTUAL DETECTION LIMIT = DF X PQL  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

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

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

# 8015B QA/QC Report

Date Analyzed: 3/28/2017

Units: mg/Kg (ppm)

Matrix: **Soil/Solid/Sludge/Liquid**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **170322-13 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	200	182	91%	182	91%	0%	75-125	0-20%

**LCS STD RECOVERY:**

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	193	97%	75-125

Analyzed and Reviewed By: 

Final Reviewer: 



### LABORATORY REPORT

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER

SAMPLING DATE: 03/21/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/22/17

DATE EXTRACTED: 03/22/17

DATE ANALYZED: 03/27/17

DATE REPORTED: 04/03/17

**TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS**

METHOD: EPA 8015B

UNIT: uG/L = MICROGRAM PER LITER = PPB

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
200-4	170322-72	ND	ND	ND	1
<b>METHOD BLANK</b>		ND	ND	ND	1
	<b>MDL</b>	250	250	2500	
	<b>PQL</b>	500	500	5000	

**COMMENTS**

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE

C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR

MDL = METHOD DETECTION LIMIT

PQL = PRACTICAL QUANTITATION LIMIT

J = TRACE CONCENTRATION BETWEEN MDL AND PQL

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro Chem, Inc

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

# 8015B QA/QC Report

Date Analyzed: 3/27/2017

Units: ug/L (PPB)

Matrix: Water/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)


Spiked Sample Lab I.D.: 170323-69 MS/MSD

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11-C22 RANGE	0	12000	11500	96%	11200	93%	3%	75-125	0-20%

### LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11-C22 RANGE	12000	11100	93%	75-125

Analyzed and Reviewed by: 

Final Reviewer: 

### LABORATORY REPORT

CUSTOMER: Leighton Consulting, Inc.  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: SOIL

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/22/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

pH ANALYSIS  
METHOD: EPA 9045C  
UNIT: pH UNITS

SAMPLE I.D.	LAB I.D.	pH RESULT
<u>AL-81-0.5</u>	170322-60	7.53
<u>AL-81-1.0</u>	170322-61	7.97
<u>AL-81-2.5</u>	170322-62	8.02
<u>AL-81-3.0</u>	170322-63	7.89

**COMMENTS:**

pH ANALYSIS CONDUCTED ON 1:1 SOIL/DEIONIZED WATER EXTRACTION

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

Matrix:

SOLID/SLUDGE/LIQ

## QA/QC Report

Analysis	Units	Date Analyzed	Sample I.D.	S.R.	Duplicate	% RPD	ACP %RPD
Alkalinity	mg/Kg					0.0%	0-20
Residual Chlorine	mg/Kg					0.0%	0-20
Density	g/mL					0.00%	0-20
EC	umhos/cm	3/21/2017	170321-69	65.7	66.4	1.06%	0-20
pH	pH units	3/22/2017	170322-63	7.89	7.86	0.38%	0-20
TDS	mg/L					0.00%	0-20
TSS	mg/Kg					0.0%	0-20
Resistivity	ohms	3/21/2017	170321-69	15221	15060	1.1%	0-20
% Moisture	%	3/21/2017	170321-63	82.57	82.72	0.2%	0-20
BTU	BTU/lb					0.0%	0-20
Salinity	ng/Kg	3/21/2017	170321-63	7.83	7.98	1.90%	0-20

%RPD = Relative Percent Difference

ACP %RPD = Acceptable Relative Percent Difference

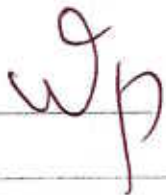
Analysis	Units	Date Analyzed	Sample I.D.	Spk Conc	S.R.	ACP %RPD	ACP %RC	MS	MS %RC	MSD	MSD %RC	% RPD
Acidity	mg/Kg					0	80-120					
Ammonia as N	mg/Kg			50.0	0.000	0-20	80-120					
MBAS	mg/Kg			6.00	0.0	0-20	80-120					
Chloride	mg/Kg	3/21/2017	170320-3	200	25.0	0-20	80-120	215	95%	210	93%	2.5%
COD	mg/Kg			500	0.0	0-20	80-120					
Cr VI	mg/Kg	3/22/2017	170314-28	4.0	0.000	0-20	80-120	3.56	89%	3.63	91%	1.8%
Cyanide	mg/Kg			10.0	0.0	0-20	80-120					#VALUE!
Fluoride	mg/Kg			10.0	0.000	0-20	80-120					#REF!
Nitrate as N	mg/Kg			4.0	0.00	0-20	80-120					#VALUE!
Nitrite as N	mg/Kg			4.0	0.00	0-20	80-120					#VALUE!
Oil and Grease	mg/Kg			667	0.0	0-20	80-120					#VALUE!
Phenolics	mg/Kg					0-20	80-120					#VALUE!
Sulfate	mg/Kg	3/21/2017	170320-3	200	15.7	0-20	80-120	185	85%	187	86%	1.0%
TOTAL Sulfide	mg/Kg			3.00	0.0	0-20	80-120					#VALUE!
TRPH	mg/Kg	3/17/2017	LCS1/2	667	0.0	0-20	80-120	627	94%	627	94%	0.0%
Sulfide, Dissolve	mg/Kg			3.00	0.0	0-20	80-120					#VALUE!
EPA 1664A	mg/Kg			500	0.0	0-20	80-120					#VALUE!

S.R. = Sample Results

%RC = Percent Recovery

ACP %RC = Accepted Percent Recovery

Analyst Signature: \_\_\_\_\_



Final Reviewer: \_\_\_\_\_



Enviro - Chem, Inc.

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

LABORATORY REPORT

CUSTOMER: Leighton Consulting, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: SOIL

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/23/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

EPA 6010B FOR TTLC-LEAD; PAGE 1 OF 3
UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

Table with 4 columns: SAMPLE I.D., LAB I.D., TTLC-LEAD RESULT, DF. Rows include sample IDs like AL-61-0.5, AL-61-1.0, AL-61-2.5, AL-63-0.5, AL-63-1.0, AL-63-2.5, AL-65-0.5, AL-65-1.0, AL-65-2.5, AL-65-3.0, AL-165-0.5, AL-165-1.0, AL-165-2.5, AL-165-3.0, AL-69-0.5, AL-69-1.0, AL-69-2.5, AL-69-3.0, AL-70-0.5, AL-70-1.0, and Method Blank.

MDL 0.084
PQL 0.50

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
STLC Limit for lead = 5 PPM
\* = STLC analysis is recommended (if marked)
\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: **SOIL**

SAMPLING DATE: **03/21/17**

REPORT TO: **MR. RICHARD ORR**

DATE RECEIVED: **03/22/17**

DATE ANALYZED: **03/23/17**

DATE REPORTED: **04/03/17**

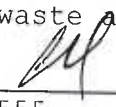
EPA 6010B FOR TTLC-LEAD; PAGE 2 OF 3  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-70-2.5	170322-40	5.49	1
AL-70-5.0	170322-41	5.08	1
AL-72-0.5	170322-42	5.24	1
AL-72-1.0	170322-43	4.18	1
AL-72-2.5	170322-44	4.68	1
AL-72-5.0	170322-45	4.87	1
AL-74-0.5	170322-46	1.80	1
AL-74-1.0	170322-47	0.731	1
AL-74-2.5	170322-48	1.27	1
AL-74-3.0	170322-49	1.99	1
AL-77-0.5	170322-50	3.71	1
AL-77-1.0	170322-51	1.85	1
AL-77-2.5	170322-52	3.07	1
AL-78-0.5	170322-53	4.62	1
AL-78-1.0	170322-54	4.72	1
AL-78-2.0	170322-55	4.05	1
AL-82-0.5	170322-56	1.54	1
AL-81-1.0	170322-57	2.08	1
AL-82-2.5	170322-58	2.52	1
AL-82-5.0	170322-59	1.92	1
Method Blank	---	ND	1

MDL 0.084  
 PQL 0.50

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: **SOIL**

DATE RECEIVED: **03/22/17**

SAMPLING DATE: **03/21/17**

DATE ANALYZED: **03/24/17**

REPORT TO: **MR. RICHARD ORR**

DATE REPORTED: **04/03/17**

EPA 6010B FOR TTLC-LEAD; PAGE 3 OF 3  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-83-0.5	170322-64	2.96	1
AL-83-1.0	170322-65	2.67	1
AL-83-2.0	170322-66	2.15	1
AL-84-0.5	170322-67	2.21	1
AL-84-1.0	170322-68	2.34	1
AL-84-2.5	170322-69	1.28	1
AL-84-5.0	170322-70	0.764	1
Method Blank	---	ND	1
	MDL	0.084	
	PQL	0.50	

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

EPA 6010B FOR TTLC-ARSENIC/LEAD  
UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	ARSENIC RESULT	DF	LEAD RESULT	DF
AL-81-0.5	170322-60	1.06	1	3.24	1
AL-81-1.0	170322-61	0.831	1	1.98	1
AL-81-2.5	170322-62	0.681	1	1.07	1
AL-81-3.0	170322-63	0.870	1	2.54	1
Method Blank	---	ND	1	ND	1
	MDL	0.248		0.084	
	PQL	0.30		0.50	

**COMMENTS:**

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = DF X PQL

ND = Non-Detected or below the Actual Detection Limit

TTLC = Total Threshold Limit Concentration


STLC = Soluble Threshold Limit Concentration

TTLC Limit for Arsenic = 500 PPM / STLC Limit for Arsenic = 5 PPM

TTLC Limit for lead = 1000 PPM / STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/23&24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-1-05**

LAB I.D.: 170322-13

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.34	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	83.7	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	13.9	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.94	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	10.4	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	7.32	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	7.43	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	40.7	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	43.2	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/23&24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-1-1.0**

LAB I.D.: 170322-14

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.50	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	79.3	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	12.8	0.5	0.138	1	2,500	560/500	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.88	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	9.32	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	3.98	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	5.82	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	41.4	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	37.2	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/23&24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-1-5.0**

LAB I.D.: 170322-15

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.61	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	71.8	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	12.7	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.52	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	8.25	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	2.14	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	6.19	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	36.0	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	34.7	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

SAMPLING DATE: 03/21/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/22/17

DATE ANALYZED: 03/23&24/17

DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-2-0.5**

LAB I.D.: 170322-16

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.05	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	62.1	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	9.66	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	5.78	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	6.06	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	1.71	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	4.96	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	30.2	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	33.0	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/23&24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-2-1.0**

LAB I.D.: 170322-17

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	0.875	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	63.1	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	9.80	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	5.45	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	5.55	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	1.60	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	3.93	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	31.6	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	31.0	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/23&24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-2-2.5**

LAB I.D.: 170322-18


### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.60	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	97.7	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	14.3	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.97	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	10.6	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	2.90	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	7.41	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	44.5	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	40.2	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLT = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/23&24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-2-5.0**

LAB I.D.: 170322-19


**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.18	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	65.7	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	10.5	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	5.94	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	6.62	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	7.96	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.012	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	5.17	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	34.6	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	36.2	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLT = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/23&24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

METHOD BLANK REPORT FOR LAB I.D.: 170322-13 THROUGH -19


**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	ND	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	ND	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	ND	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	ND	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	ND	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	ND	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	ND	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	ND	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLT = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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



## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/24/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170323-65	50.0	100	PASS	1.54	50.0	44.7	86%	44.6	86%	0%
Chromium(Cr)	170323-65	50.0	101	PASS	22.5	50.0	65.4	86%	67.8	91%	5%
Lead(Pb)	170323-65	50.0	102	PASS	2.67	50.0	46.7	88%	47.1	89%	1%

ANALYSIS DATE. : 3/23/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170322-9	0.125	94	PASS	0	0.125	0.106	85%	0.103	82%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/23/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170322-39	50.0	97	PASS	2.90	50.0	44.7	84%	45.4	85%	2%
Chromium(Cr)	170322-39	50.0	98	PASS	19.1	50.0	68.5	99%	69.8	101%	3%
Lead(Pb)	170322-39	50.0	100	PASS	6.49	50.0	44.8	77%	45.7	78%	2%

ANALYSIS DATE. : 3/21/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170321-2	0.125	94	PASS	0	0.125	0.106	85%	0.104	83%	2%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

Metals Analysis Date : 3/24/2017

Mercury Analysis Date : 3/23/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Antimony (Sb)	170322-14	50.0	102	PASS	0	50	37.1	74%*	40.7	81%	9%
Arsenic (As)	170322-14	50.0	102	PASS	1.50	50	40.7	78%	43.7	84%	7%
Barium (Ba)	170322-14	50.0	102	PASS	79.3	50	102	45%*	109	59%*	27%
Beryllium (Be)	170322-14	50.0	102	PASS	0	50	28.3	57%*	32.0	64%*	12%
Cadmium (Cd)	170322-14	50.0	105	PASS	0	50	40.5	81%	42.8	86%	6%
Chromium (Cr)	170322-14	50.0	100	PASS	12.8	50	58.9	92%	65.7	106%	14%
Cobalt (Co)	170322-14	50.0	105	PASS	6.88	50	44.0	74%*	43.9	74%*	0%
Copper (Cu)	170322-14	50.0	97	PASS	9.40	50	40.7	63%*	44.6	70%*	12%
Lead (Pb)	170322-14	50.0	104	PASS	9.32	50	42.0	65%*	44.5	70%*	7%
Mercury (Hg)	170322-9	0.125	94	PASS	0	0.125	0.106	85%	0.103	82%	3%
Molybdenum(Mo)	170322-14	50.0	104	PASS	0	50	39.4	79%	41.4	83%	5%
Nickel (Ni)	170322-14	50.0	102	PASS	5.82	50	44.0	76%	44.4	77%	1%
Selenium (Se)	170322-14	50.0	103	PASS	0	50	36.8	74%	39.9	80%	8%
Silver (Ag)	170322-14	5.0	99	PASS	0	5.0	3.25	65%*	3.57	71%*	0%
Thallium (Tl)	170322-14	50.0	108	PASS	0	50	55.2	110%	65.0	130%*	1%
Vanadium (V)	170322-14	50.0	99	PASS	41.4	50	67.1	80%	76.3	70%*	14%
Zinc (Zn)	170322-14	50.0	108	PASS	37.2	50	76.8	81%	79.6	81%	0%

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

SAMPLE I.D.: **100-5**

LAB I.D.: 170322-71

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Lead (Pb)	ND	0.01	0.004	1	200.7

**COMMENTS**

DF = Dilution Factor


MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**METHOD BLANK REPORT**

CUSTOMER: Leighton & Associates, Inc.  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: WATER

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

METHOD BLANK REPORT FOR LAB I.D.: 170322-71

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Lead (Pb)	ND	0.01	0.004	1	200.7

**COMMENTS**

DF = Dilution Factor


MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
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 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/23&24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

SAMPLE I.D.: **200-4**

LAB I.D.: 170322-72

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	EPA METHOD
Antimony (Sb)	ND	0.02	1	200.7
Arsenic (As)	ND	0.01	1	200.7
Barium (Ba)	ND	0.10	1	200.7
Beryllium (Be)	ND	0.01	1	200.7
Cadmium (Cd)	ND	0.01	1	200.7
Chromium (Cr)	ND	0.01	1	200.7
Cobalt (Co)	ND	0.02	1	200.7
Copper (Cu)	0.260	0.02	1	200.7
Lead (Pb)	ND	0.01	1	200.7
Mercury (Hg)	ND	0.0005	1	245.1
Molybdenum (Mo)	ND	0.1	1	200.7
Nickel (Ni)	ND	0.05	1	200.7
Selenium (Se)	ND	0.02	1	200.7
Silver (Ag)	ND	0.02	1	200.7
Thallium (Tl)	ND	0.02	1	200.7
Vanadium (V)	ND	0.1	1	200.7
Zinc (Zn)	0.075	0.01	1	200.7


**COMMENTS**

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
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 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/23&24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

METHOD BLANK REPORT FOR LAB I.D.: 170322-72

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	EPA METHOD
Antimony (Sb)	ND	0.02	1	200.7
Arsenic (As)	ND	0.01	1	200.7
Barium (Ba)	ND	0.10	1	200.7
Beryllium (Be)	ND	0.01	1	200.7
Cadmium (Cd)	ND	0.01	1	200.7
Chromium (Cr)	ND	0.01	1	200.7
Cobalt (Co)	ND	0.02	1	200.7
Copper (Cu)	ND	0.02	1	200.7
Lead (Pb)	ND	0.01	1	200.7
Mercury (Hg)	ND	0.0005	1	245.1
Molybdenum (Mo)	ND	0.1	1	200.7
Nickel (Ni)	ND	0.05	1	200.7
Selenium (Se)	ND	0.02	1	200.7
Silver (Ag)	ND	0.02	1	200.7
Thallium (Tl)	ND	0.02	1	200.7
Vanadium (V)	ND	0.1	1	200.7
Zinc (Zn)	ND	0.01	1	200.7


**COMMENTS**

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for TLLC Metals Analysis --WATER MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/24/2017

Unit : *mg/L(ppm)*

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	170322-73	1.00	99	PASS	0	1.00	0.950	95%	0.915	92%	4%
Lead(Pb)	170322-73	0.10	107	PASS	0	1.00	0.827	83%	0.822	82%	1%
Zinc(Zn)	170322-73	1.00	108	PASS	0.091	1.00	1.07	98%	1.06	97%	1%

ANALYSIS DATE : 3/23/2017

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170322-72	0.00250	96	PASS	0	0.00250	0.00220	88%	0.00210	84%	5%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Zinc(Zn)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control



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LABORATORY REPORT

CUSTOMER: Leighton & Associates, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: SOIL

DATE RECEIVED: 03/21/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

EPA 6010B FOR STLC-LEAD
UNIT: mg/L IN THE STLC LEACHATE

Table with 4 columns: SAMPLE I.D., LAB I.D., STLC-LEAD RESULT, and DF. It lists various sample IDs (e.g., AL-65-0.5, AL-165-0.5) and their corresponding results and dilution factors.

MDL 0.02
PQL 0.05

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
STLC = Soluble Threshold Limit Concentration
mg/L = Milligram Per Liter = PPM
\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --STLC

**Matrix Spike/ Matrix Spike Duplicate/ LCS :**

ANALYSIS DATE: 3/24/2017

Unit : *mg/L (ppm)*

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170322-62	5.00	104	PASS	0	5.00	4.78	96%	4.85	97%	1%
Chromium(Cr)	170322-62	5.00	93	PASS	0	5.00	4.78	96%	4.87	97%	2%
Lead(Pb)	170322-62	5.00	108	PASS	0	5.00	4.55	91%	4.56	91%	0%

ANALYSIS DATE: 3/20/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170220-50	0.0125	96	PASS	0	0.0125	0.0110	88%	0.0107	86%	3%

**MS/MSD Status:**

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: 

FINAL REVIEWER: 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/21/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/23/17  
 DATE ANALYZED: 03/23/17  
 DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-1-0.5**

LAB I.D.: 170322-13

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
<u>Aldrin</u>	ND	0.001	0.0002	1
<u>alpha-BHC</u>	ND	0.001	0.0001	1
<u>beta-BHC</u>	ND	0.001	0.0001	1
<u>gamma-BHC (Lindane)</u>	ND	0.001	0.0001	1
<u>delta-BHC</u>	ND	0.001	0.0001	1
<u>alpha-Chlordane</u>	ND	0.001	0.0001	1
<u>gamma-Chlordane</u>	ND	0.001	0.0001	1
<u>Technical Chlordane</u>	ND	0.005	0.0005	1
<u>4,4'-DDD</u>	ND	0.001	0.0002	1
<u>4,4'-DDE</u>	0.004	0.001	0.0001	1
<u>4,4'-DDT</u>	0.002	0.001	0.0001	1
<u>Dieldrin</u>	ND	0.001	0.0002	1
<u>Endosulfan I</u>	ND	0.001	0.0002	1
<u>Endosulfan II</u>	ND	0.001	0.0002	1
<u>Endosulfan Sulfate</u>	ND	0.001	0.0001	1
<u>Endrin</u>	ND	0.001	0.0001	1
<u>Endrin Aldehyde</u>	ND	0.001	0.0001	1
<u>Endrin Ketone</u>	ND	0.001	0.0001	1
<u>Heptachlor Epoxide</u>	ND	0.001	0.0001	1
<u>Heptachlor</u>	ND	0.001	0.0001	1
<u>Methoxychlor</u>	ND	0.001	0.0001	1
<u>Toxaphene</u>	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:

CAL-DHS CERTIFICATE # 1555



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**LABORATORY REPORT**

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10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/21/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/23/17  
DATE ANALYZED: 03/23/17  
DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-1-1.0**

LAB I.D.: 170322-14

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	0.001	0.001	0.0001	1
4,4'-DDT	0.002	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:

CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
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 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/21/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/23/17  
 DATE ANALYZED: 03/23/17  
 DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-1-5.0**

LAB I.D.: 170322-15

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555

  
 \_\_\_\_\_

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
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 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

SAMPLING DATE: 03/21/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17

DATE EXTRACTED: 03/23/17

DATE ANALYZED: 03/23/17

DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-2-0.5**

LAB I.D.: 170322-16

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxyclor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:

CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/21/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/23/17  
 DATE ANALYZED: 03/23/17  
 DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-2-1.0**

LAB I.D.: 170322-17

**Organochlorine Pesticides Analysis**

method: EPA 8081A

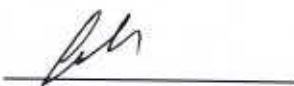
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/21/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/23/17  
 DATE ANALYZED: 03/23/17  
 DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-2-2.5**

LAB I.D.: 170322-18

**Organochlorine Pesticides Analysis**

method: EPA 8081A

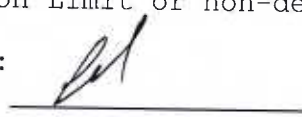
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555





**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/21/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/23/17  
 DATE ANALYZED: 03/23/17  
 DATE REPORTED: 04/03/17

SAMPLE I.D.: **RR-2-5.0**

LAB I.D.: 170322-19

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/21/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/23/17  
DATE ANALYZED: 03/23/17  
DATE REPORTED: 04/03/17

SAMPLE I.D.: **AL-81-0.5**

LAB I.D.: 170322-60

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/21/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/23/17  
DATE ANALYZED: 03/23/17  
DATE REPORTED: 04/03/17

SAMPLE I.D.: **AL-81-1.0**

LAB I.D.: 170322-61

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxyclor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:

CAL-DHS CERTIFICATE # 1555

  
\_\_\_\_\_

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/21/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/23/17  
DATE ANALYZED: 03/23/17  
DATE REPORTED: 04/03/17

SAMPLE I.D.: **AL-81-2.5**

LAB I.D.: 170322-62

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 03/21/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/23/17  
DATE ANALYZED: 03/23/17  
DATE REPORTED: 04/03/17

SAMPLE I.D.: **AL-81-3.0**

LAB I.D.: 170322-63

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555

  
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### METHOD BLANK REPORT

CUSTOMER: Leighton & Associates, Inc.  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
PROJECT: 603445.100

MATRIX: SOIL  
SAMPLING DATE: 03/21/17  
REPORT TO: MR. RICHARD ORR  
DATE RECEIVED: 03/21/17  
DATE EXTRACTED: 03/23/17  
DATE ANALYZED: 03/23/17  
DATE REPORTED: 04/03/17

METHOD BLANK REPORT FOR LAB I.D. :  
170322-13, -14, -15, -16, -17, -18, -19, -60, -61, -62, -63

Organochlorine Pesticides Analysis  
method: EPA 8081A  
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
MDL = Method Detection Limit  
PQL = Practical Quantitation Limit  
Actual Detection Limit = PQL X DF  
J = Trace Concentration between MDL and PQL  
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555

  
\_\_\_\_\_

# Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5906 Fax (909)590-5907

## EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)**

Date Analyzed: **3/23-24/2017**

Unit: **mg/Kg (ppm)**

### Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **170323-61 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00548	<b>110%</b>	0.00566	<b>113%</b>	<b>3%</b>	<b>0-20%</b>	<b>70-130</b>
Aldrin	0.000	0.00500	0.00461	<b>92%</b>	0.00464	<b>93%</b>	<b>1%</b>	<b>0-20%</b>	<b>70-130</b>
4,4-DDE	0.000	0.00500	0.00501	<b>100%</b>	0.00514	<b>103%</b>	<b>3%</b>	<b>0-20%</b>	<b>70-130</b>

### Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00506	<b>101%</b>	<b>75-125</b>
Aldrin	0.00500	0.00537	<b>107%</b>	<b>75-125</b>
4,4-DDE	0.00500	0.00523	<b>105%</b>	<b>75-125</b>
Dieldrin	0.00500	0.00557	<b>111%</b>	<b>75-125</b>

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		<b>MB</b>	<b>170322-4</b>	<b>170322-13</b>	<b>170322-14</b>	<b>170322-15</b>	<b>170322-16</b>	<b>170322-17</b>	
Tetra-chloro-meta-xylene	50-150	124%	131%	136%	146%	132%	87%	94%	
Decachlorobiphenyl	50-150	77%	83%	97%	96%	97%	77%	81%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		<b>170322-18</b>	<b>170322-19</b>	<b>170322-60</b>	<b>170322-61</b>	<b>170322-62</b>	<b>170322-63</b>	<b>170322-2</b>	
Tetra-chloro-meta-xylene	50-150	87%	98%	94%	91%	130%	130%	124%	
Decachlorobiphenyl	50-150	77%	77%	73%	61%	73%	63%	80%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		<b>170322-3</b>							
Tetra-chloro-meta-xylene	50-150	142%							
Decachlorobiphenyl	50-150	96%							

S.R. = Sample Result

\* = Surrogate fail due to matrix interference (If Marked)

spk conc = Spike Concentration

Note: **LCS, MS, MSD are in control therefore results are in control.**

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/21/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/21/17  
 DATE EXTRACTED: 03/27/17  
 DATE ANALYZED: 03/27/17  
 DATE REPORTED: 04/03/17

**PCBs ANALYSIS**

**METHOD: EPA 8082**


**UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM**

SAMPLE I.D.	LAB I.D.	PCB- 1016	PCB- 1221	PCB- 1232	PCB- 1242	PCB- 1248	PCB- 1254	PCB- 1260	TOTAL PCBs*	DF
RR-1-0.5	170322-13	ND	ND	ND	ND	ND	ND	ND	ND	1
RR-1-1.0	170322-14	ND	ND	ND	ND	ND	ND	ND	ND	1
RR-1-5.0	170322-15	ND	ND	ND	ND	ND	ND	ND	ND	1
RR-2-0.5	170322-16	ND	ND	ND	ND	ND	ND	ND	ND	1
RR-2-1.0	170322-17	ND	ND	ND	ND	ND	ND	ND	ND	1
RR-2-2.5	170322-18	ND	ND	ND	ND	ND	ND	ND	ND	1
RR-2-5.0	170322-19	ND	ND	ND	ND	ND	ND	ND	ND	1
<b>Method Blank</b>		ND	ND	ND	ND	ND	ND	ND	ND	1

MDL 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005  
 PQL 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01

**COMMENTS**

DF = DILUTION FACTOR  
 MDL = METHOD DETECTION LIMIT  
 PQL = PRACTICAL QUANTITATION LIMIT  
 J = TRACE CONCENTRATION BETWEEN MDL AND PQL  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT  
 \* = SUM OF THE PCB 1016, 1221, 1232, 1242, 1248, 1254 AND 1260  
 \*\*\* = THE CONCENTRATION EXCEEDS THE TTLC LIMIT OF 50, AND THE SAMPLE IS DEFINED AS HAZARDOUS WASTE AS PER CCR-TITLE 22 (IF MARKED)

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



# Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)690-5905 Fax (909)690-5907

## EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge**

Date Analyzed: 3/27-28/2017

Unit: mg/Kg(PPM)

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.: 170322-81 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.090	90%	0.082	82%	9%	0-20%	70-130

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.120	120%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		MB	170322-13	170322-14	170322-15	170322-16	170322-17	170322-18	
Tetra-chloro-meta-xylene	50-150	131%	125%	136%	124%	120%	145%	116%	
Decachlorobipneyl	50-150	109%	96%	107%	68%	99%	82%	68%	

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>	170322-19								
Tetra-chloro-meta-xylene	136%								
Decachlorobipneyl	124%								

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>							
Tetra-chloro-meta-xylene							
Decachlorobipneyl							

S.R. = Sample Result

\* = Surrogate fail due to matrix interference (If Marked)

spk conc = Spike Concentration

**Note: LCS, MS, MSD are in control therefore results are in control.**

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: \_\_\_\_\_

Final Reviewer: \_\_\_\_\_

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER  
 SAMPLING DATE: 03/20/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/22/17  
 DATE EXTRACTED: 03/22/17  
 DATE ANALYZED: 03/27/17  
 DATE REPORTED: 04/03/17

SAMPLE I.D.: **200-4**

LAB I.D.: 170322-72

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1
PCB-1016	ND	1.00	0.50	1
PCB-1221	ND	1.00	0.50	1
PCB-1232	ND	1.00	0.50	1
PCB-1242	ND	1.00	0.50	1
PCB-1248	ND	1.00	0.50	1
PCB-1254	ND	1.00	0.50	1
PCB-1260	ND	1.00	0.50	1

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



### METHOD BLANK REPORT

CUSTOMER: Leighton & Associates, Inc.  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

DATE RECEIVED: 03/22/17

MATRIX: WATER

DATE EXTRACTED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 03/27/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

METHOD BLANK REPORT FOR LAB I.D.: 170322-72

#### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1
PCB-1016	ND	1.00	0.50	1
PCB-1221	ND	1.00	0.50	1
PCB-1232	ND	1.00	0.50	1
PCB-1242	ND	1.00	0.50	1
PCB-1248	ND	1.00	0.50	1
PCB-1254	ND	1.00	0.50	1
PCB-1260	ND	1.00	0.50	1

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

# EPA 608 QA/QC Report

+ 8081A

Matrix: Water/Liquid  
Unit: ug/L

Date Analyzed: 3/27/2017

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

Spiked Sample Lab I.D.: 170323-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0	0.500	0.500	100%	0.540	108%	8%	0-20%	70-130
Aldrin	0	0.500	0.523	105%	0.570	114%	9%	0-20%	70-130
4,4-DDE	0	0.500	0.404	81%	0.432	86%	7%	0-20%	70-130

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.500	0.440	88%	75-125
Aldrin	0.500	0.462	92%	75-125
4,4-DDE	0.500	0.377	75%	75-125
Dieldrin	0.500	0.441	88%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		M-BLK	170321-58	170322-72					
Tetra-chloro-meta-xylene	50-150	114%	143%	129%					
Decachlorobipneyl	50-150	122%	55%	55%					

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.									
Tetra-chloro-meta-xylene									
Decachlorobipneyl									

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

\* = Surrogate fail due to matrix interference

Note: LCS, MS, MSD are in control therefore results are in control.

Final Reviewer: 

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

## QA/QC Report

Analysis: EPA 608 (PCB)

19082

Matrix: Water/Liquid

Date Analyzed: 3/27/2017

Unit: ug/L (PPB)

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 170321-58 MS/MSD

Analyte	S.R.	spk conc.	MS	%REC	MSD	%REC	%RPD	ACP % RPD	ACP %REC
PCB (1016+1260)	0	10.0	10.2	<b>102%</b>	11.16	<b>112%</b>	<b>9%</b>	0-20%	70-130

LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	10.0	12.5	<b>125%</b>	75-125

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: [Signature]

Final Reviewer: [Signature]



## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Telephone: (909) 590-5905  
Attention: Curtis Desilets

Number of Pages 6  
Date Received 03/23/2017  
Date Reported 03/31/2017

Job Number	Order Date	Client
87083	03/23/2017	ENVIRO

Project ID: 603445-100  
Project Name: (170322-13~72)

Enclosed please find results of analyses of 7 soil and 1 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director

87083

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	PAH 8310											Misc./PO#  <b>AETL</b>
					<b>Analysis Required</b>										COMMENTS

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	PAH 8310	Analysis Required										COMMENTS			
RR-1-0.5 (170322-13)	87083.01	03/21/17	9:05	Soil	1		None	X														
RR-1-1.0 (170322-14)	87083.02	03/21/17	9:06	Soil	1		None	X														
RR-1-5.0 (170322-15)	87083.03	03/21/17	9:09	Soil	1		None	X														
RR-2-0.5 (170322-16)	87083.04	03/21/17	9:17	Soil	1		None	X														
RR-2-1.0 (170322-17)	87083.05	03/21/17	9:18	Soil	1		None	X														
RR-2-2.5 (170322-18)	87083.06	03/21/17	9:19	Soil	1		None	X														
RR-2-5.0 (170322-19)	87083.07	03/21/17	9:22	Soil	1		None	X														
200-4 (170322-72)	87083.08	03/21/17	15:00	Water	1		None	X														

Company Name: <b>Enviro-Chem, Inc</b>	Project Contact: <b>Curtis Desilets</b>	Sampler's Signature:
Address: <b>1214 E. Lexington Avenue</b>	Tel: <b>909-590-5905</b>	Project Name/ID:
City/State/Zip: <b>Pomona, CA 91766</b>	Fax: <b>envirocheminc @ gmail.com</b>	<b>603445-100 (170322-13~72)</b>

Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: <b>3/23/17 1015</b>	Instructions for Sample Storage After Analysis: <input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days) <input type="checkbox"/> Other:
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time:	
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: <b>03/23/17 1200</b>	

**CHAIN OF CUSTODY RECORD**



# American Environmental Testing Laboratory Inc.

2834 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## COOLER RECEIPT FORM

Client Name: <i>Enviro-Chem</i>			
Project Name:			
AETL Job Number: <i>87083</i>			
Date Received: <i>03/23/17</i>		Received by: <i>Sean Claude</i>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler ( <i>1</i> ) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <i>3.1<sup>56</sup></i> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input checked="" type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO <sub>3</sub> , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , <input type="checkbox"/> MeOH			
Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<input checked="" type="checkbox"/>		
2. Are the Sample labels legible?	<input checked="" type="checkbox"/>		
3. Do samples match the COC?	<input checked="" type="checkbox"/>		
4. Are the required analyses clear?	<input checked="" type="checkbox"/>		
5. Is there enough samples for required analysis?	<input checked="" type="checkbox"/>		
6. Are samples sealed with evidence tape?	<i>NA</i>		
7. Are sample containers in good condition?	<input checked="" type="checkbox"/>		
8. Are samples preserved?	<input checked="" type="checkbox"/>		
9. Are samples preserved properly for the intended analysis?	<input checked="" type="checkbox"/>		
10. Are the VOAs free of headspace?	<i>NO</i>		
11. Are the jars free of headspace?	<i>↓</i>		

Explain all "No" answers for above questions:

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# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Page: 1 A

### Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Project ID: 603445-100  
Date Received 03/23/2017  
Date Reported 03/31/2017

Telephone: (909) 590-5905  
Attention: Curtis Desilets

Job Number	Order Date	Client
87083	03/23/2017	ENVIRO

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 8 samples with the following specification on 03/23/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
87083.08	200-4 (170322-72)	03/21/2017	Aqueous	1
<b>Method ^ Submethod</b>		<b>Req Date</b>	<b>Priority</b>	<b>TAT</b>
8310		03/30/2017	2	Normal
<b>Units</b>				
ug/L				
Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
87083.01	RR-1-0.5 (170322-13)	03/21/2017	Soil	1
87083.02	RR-1-1.0 (170322-14)	03/21/2017	Soil	1
87083.03	RR-1-5.0 (170322-15)	03/21/2017	Soil	1
87083.04	RR-2-0.5 (170322-16)	03/21/2017	Soil	1
87083.05	RR-2-1.0 (170322-17)	03/21/2017	Soil	1
87083.06	RR-2-2.5 (170322-18)	03/21/2017	Soil	1
87083.07	RR-2-5.0 (170322-19)	03/21/2017	Soil	1
<b>Method ^ Submethod</b>		<b>Req Date</b>	<b>Priority</b>	<b>TAT</b>
(8310)		03/30/2017	2	Normal
<b>Units</b>				
mg/Kg				

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## ANALYTICAL RESULTS

### Ordered By

Enviro-Chem Laboratories  
 1214 E. Lexington Avenue  
 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 2

Project ID: 603445-100  
 Project Name: (170322-13~72)

AETL Job Number	Submitted	Client
87083	03/23/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032817B1

Our Lab I.D.			Method Blank	87083.01	87083.02	87083.03	87083.04
Client Sample I.D.				RR-1-0.5 (170322-13)	RR-1-1.0 (170322-14)	RR-1-5.0 (170322-15)	RR-2-0.5 (170322-16)
Date Sampled				03/21/2017	03/21/2017	03/21/2017	03/21/2017
Date Prepared			03/28/2017	03/28/2017	03/28/2017	03/28/2017	03/28/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/28/2017	03/28/2017	03/28/2017	03/28/2017	03/28/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.010	0.020	ND	0.0100J	ND	ND	ND
Benzo(b)fluoranthene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.010	0.020	ND	ND	ND	ND	ND
Chrysene	0.010	0.020	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	ND	ND	ND
Fluoranthene	0.010	0.020	ND	0.0106J	ND	ND	ND
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	ND	ND	ND	ND
Pyrene	0.010	0.020	ND	0.0100J	ND	ND	ND
Our Lab I.D.			Method Blank	87083.01	87083.02	87083.03	87083.04
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
p-Terphenyl-D14	75-125		112	118	114	109	114



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Enviro-Chem Laboratories  
 1214 E. Lexington Avenue  
 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 3

Project ID: 603445-100

Project Name: (170322-13~72)

AETL Job Number	Submitted	Client
87083	03/23/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032817B1

Our Lab I.D.			87083.05	87083.06	87083.07		
Client Sample I.D.			RR-2-1.0 (170322-17)	RR-2-2.5 (170322-18)	RR-2-5.0(170 322-19)		
Date Sampled			03/21/2017	03/21/2017	03/21/2017		
Date Prepared			03/28/2017	03/28/2017	03/28/2017		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			03/28/2017	03/28/2017	03/28/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND	ND		
Benzo(a)pyrene	0.010	0.020	ND	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	ND	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	ND	ND	ND		
Chrysene	0.010	0.020	ND	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	ND		
Acenaphthene	0.010	0.020	ND	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND	ND		
Anthracene	0.010	0.020	ND	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	ND		
Fluoranthene	0.010	0.020	ND	ND	ND		
Fluorene	0.010	0.020	ND	ND	ND		
Naphthalene	0.010	0.020	ND	ND	ND		
Phenanthrene	0.010	0.020	ND	ND	ND		
Pyrene	0.010	0.020	ND	ND	ND		
Our Lab I.D.			87083.05	87083.06	87083.07		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
p-Terphenyl-D14	75-125		112	111	114		



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## ANALYTICAL RESULTS

### Ordered By

Enviro-Chem Laboratories  
 1214 E. Lexington Avenue  
 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 4

Project ID: 603445-100

Project Name: (170322-13~72)

AETL Job Number	Submitted	Client
87083	03/23/2017	ENVIRO

Method: 8310, Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 0327171B1

Our Lab I.D.		Method Blank	87083.08		
Client Sample I.D.			200-4(170322-72)		
Date Sampled			03/21/2017		
Date Prepared		03/27/2017	03/27/2017		
Preparation Method		3510C	3510C		
Date Analyzed		03/27/2017	03/27/2017		
Matrix		Aqueous	Aqueous		
Units		ug/L	ug/L		
Dilution Factor		1	1		
Analytes	MDL	PQL	Results	Results	
Benzo(a)anthracene	0.10	0.20	ND	ND	
Benzo(a)pyrene	0.10	0.20	ND	ND	
Benzo(b)fluoranthene	0.10	0.20	ND	ND	
Benzo(k)fluoranthene	0.10	0.20	ND	ND	
Chrysene	0.10	0.20	ND	ND	
Dibenzo(a,h)anthracene	0.10	0.20	ND	ND	
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND	
Acenaphthene	0.10	0.20	ND	ND	
Acenaphthylene	0.10	0.20	ND	ND	
Anthracene	0.10	0.20	ND	ND	
Benzo(g,h,i)perylene	0.10	0.20	ND	ND	
Fluoranthene	0.10	0.20	ND	ND	
Fluorene	0.10	0.20	ND	ND	
Naphthalene	0.10	0.20	ND	ND	
Phenanthrene	0.10	0.20	ND	ND	
Pyrene	0.10	0.20	ND	ND	
Our Lab I.D.			Method Blank	87083.08	
Surrogates	%Rec.Limit		% Rec.	% Rec.	
p-Terphenyl-D14	75-125		114	109	



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## QUALITY CONTROL RESULTS

### Ordered By

Enviro-Chem Laboratories  
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 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 5

Project ID: 603445-100

Project Name: (170322-13-72)

AETL Job Number	Submitted	Client
87083	03/23/2017	ENVIRO

Method: 8310, Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032717IB1; Dup or Spiked Sample: 0327; LCS: Clean Water; QC Prepared: 03/27/2017; QC Analyzed: 03/27/2017;  
 Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.500	0.450	90.4	0.500	0.470	94.2	4.12	75-125	<20
Benzo(a)pyrene	0.00	0.500	0.420	83.4	0.500	0.430	86.6	3.76	75-125	<20
Naphthalene	0.00	5.00	4.41	88.2	5.00	4.87	97.4	9.91	70-120	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	4.00	4.42	111	4.00	4.50	113	1.79	75-125	<20

QC Batch No: 032717IB1; Dup or Spiked Sample: 0327; LCS: Clean Water; QC Prepared: 03/27/2017; QC Analyzed: 03/27/2017;  
 Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
Benzo(a)anthracene	0.500	0.470	94.6	75-125
Benzo(a)pyrene	0.500	0.440	87.8	75-125
Naphthalene	5.00	4.02	80.4	70-120
<b>LCS</b>				
Acenaphthene	5.00	4.52	90.4	75-125
Acenaphthylene	10.0	9.46	94.6	75-125
Anthracene	0.500	0.510	103	75-125
Benzo(b)fluoranthene	1.00	0.970	96.5	75-125
Benzo(g,h,i)perylene	1.00	0.960	95.7	75-125
Benzo(k)fluoranthene	0.500	0.510	101	75-125
Chrysene	0.500	0.490	97.4	75-125
Dibenzo(a,h)anthracene	1.00	0.950	94.9	75-125
Fluoranthene	1.00	0.910	90.9	75-125
Fluorene	1.00	0.840	83.9	75-125
Indeno(1,2,3-cd)pyrene	0.500	0.490	98.6	75-125
Phenanthrene	0.500	0.460	92.0	75-125
Pyrene	0.500	0.500	100	60-110
<b>Surrogates</b>				
p-Terphenyl-D14	4.00	4.45	111	75-125



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## QUALITY CONTROL RESULTS

### Ordered By

Enviro-Chem Laboratories  
 1214 E. Lexington Avenue  
 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 6

Project ID: 603445-100  
 Project Name: (170322-13~72)

AETL Job Number	Submitted	Client
87083	03/23/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032817IB1; Dup or Spiked Sample: 87085.02; LCS: Clean Sand; QC Prepared: 03/28/2017; QC Analyzed: 03/28/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0451	90.2	0.0500	0.0454	90.8	<1	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0427	85.4	0.0500	0.0434	86.8	1.63	75-125	<20
Naphthalene	0.00160	0.500	0.459	91.5	0.500	0.466	92.9	1.52	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.432	108	0.400	0.436	109	<1	75-125	<20

QC Batch No: 032817IB1; Dup or Spiked Sample: 87085.02; LCS: Clean Sand; QC Prepared: 03/28/2017; QC Analyzed: 03/28/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzo(a)anthracene	0.0500	0.0466	93.2	0.0500	0.0457	91.4	1.95	75-125	<20
Benzo(a)pyrene	0.0500	0.0457	91.4	0.0500	0.0445	89.0	2.66	75-125	<20
Naphthalene	0.500	0.449	89.8	0.500	0.472	94.4	4.99	75-125	<20
<b>LCS</b>									
Acenaphthene	0.500	0.420	84.6	0.500	0.440	87.8	3.71	75-125	<20
Acenaphthylene	1.00	0.890	88.7	1.00	0.940	94.0	5.80	75-125	<20
Anthracene	0.0500	0.0500	99.4	0.0500	0.0500	102	2.58	75-125	<20
Benzo(b)fluoranthene	0.100	0.100	95.2	0.100	0.0900	93.6	1.69	75-125	<20
Benzo(g,h,i)perylene	0.100	0.100	98.0	0.100	0.100	98.7	<1	75-125	<20
Benzo(k)fluoranthene	0.0500	0.0500	99.4	0.0500	0.0500	98.0	1.42	75-125	<20
Chrysene	0.0500	0.0500	96.6	0.0500	0.0500	94.2	2.52	75-125	<20
Dibenzo(a,h)anthracene	0.100	0.0900	93.1	0.100	0.0900	90.9	2.39	75-125	<20
Fluoranthene	0.100	0.0900	88.6	0.100	0.0900	87.5	1.25	75-125	<20
Fluorene	0.100	0.0800	78.3	0.100	0.0900	85.0	8.21	75-125	<20
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	94.6	0.0500	0.0400	88.4	6.78	75-125	<20
Phenanthrene	0.0500	0.0400	87.0	0.0500	0.0400	89.6	2.94	75-125	<20
Pyrene	0.0500	0.0500	96.6	0.0500	0.0500	93.8	2.94	75-125	<20
<b>Surrogates</b>									
p-Terphenyl-D14	0.400	0.440	110	0.400	0.436	109	<1	75-125	<20



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### Data Qualifiers and Descriptors

#### *Data Qualifier:*

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### *Definition:*

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required						COMMENTS
								6010B Pb	6010B/2471A	8081A	8015CCID	8310	8082	
RR-1-0.5	170322-13	3/21/17	0905	soil	1	ice		X	X	X	X	X		
RR-1-1.0	-14		0906					X	X	X	X	X		
RR-1-5.0	-15		0909					X	X	X	X	X		
RR-2-0.5	-16		0917					X	X	X	X	X		
RR-2-1.0	-17		0918					X	X	X	X	X		
RR-2-2.5	-18		0919					X	X	X	X	X		
RR-2-5.0	-19		0922					X	X	X	X	X		
AL-61-0.5	-20		0958									X		
AL-61-1.0	-21		1001									X		
AL-61-2.5	-22		1004									X		
AL-63-0.5	-23		1020									X		
AL-63-1.0	-24		1022									X		
AL-63-2.5	-25		1025									X		
AL-65-0.5	-26		1042									X		
AL-65-1.0	-27		1045									X		

Misc./PO#  
 Sample red cap end

Company Name: Lexington Consulting		Project Contact: Richard Orr		Sampler's Signature: [Signature]	
Address: 10532 Acacia St Ste B6		Tel: (909) 484-2205		Project Name/ID: 603445-100	
City/State/Zip: Rancho Cucamonga, CA 91730		Fax/Email: (909) 484-2170			
Relinquished by: [Signature]	Received by: Pei Chan Sr	Date & Time: 3/22/17 10:15	Instructions for Sample Storage After Analysis:		
Relinquished by: Pei Chan Sr	Received by: [Signature]	Date & Time: 3/22/17 11:30	<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="checkbox"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 3/21/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours

Week (Standard)

Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS			
AL-65-2.5	170322-28	3/21/17	1047	Soil	1		Ice	X	X												
AL-65-3.0	-29		1048					X	X												
AL-165-0.5	-30		1051					X	X												
AL-165-1.0	-31		1052					X	X												
AL-165-2.5	-32		1053					X	X												
AL-165-3.0	-33		1050					X													
AL-69-0.5	-34		1113					X													
AL-69-1.0	-35		1121					X													
AL-69-2.5	-36		1122					X													
AL-69-3.0	-37		1124					X													
AL-70-0.5	-38		1137					X													
AL-70-1.0	-39		1139					X													
AL-70-2.5	-40		1141					X													
AL-70-5.0	-41		1145					X													
AL-72-0.5	-42		1157					X													

6010B Pb  
STLC Pb  
CA WET

Misc./PO#  
Sample red cap end

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>Pei-Chun Sun</u>	Date & Time: <u>3/24/17 10:15</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>Pei-Chun Sun</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/22/17 11:30</u>	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="radio"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 3/21/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**

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Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 week (Standard)
- Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
AL-72-1.0	170322-43	3/21/17	1158	soil	1	ice	X					
AL-72-2.5	-44		1200				X					
AL-72-5.0	-45		1201				X					
AL-74-0.5	-46		1210				X					
AL-74-1.0	-47		1211				X					
AL-74-2.5	-48		1215				X					
AL-74-3.0	-49		1217				X					
AL-77-0.5	-50		1229				X					
AL-77-1.0	-51		1237				X					
AL-77-2.5	-52		1236				X					
AL-78-0.5	-53		1250				X	X				
AL-78-1.0	-54		1251				X	X				
AL-78-2.0	-55		1254				X	X				
AL-82-0.5	-56		1312				X					
AL-82-1.0	-57		1314				X					

6010B Pb  
572C Pb  
CA-WET

Misc./PO#  
Sample red cap end

Company Name: Leighton Consulting  
Address: 10532 Macia St Ste B6  
City/State/Zip: Rancho Cucamonga, CA 91730

Project Contact: Richard Orr  
Tel: (909) 484-2205  
Fax/Email: (909) 484-2170

Sampler's Signature: [Signature]  
Project Name/ID: 605445-100

Relinquished by: [Signature]  
Relinquished by: Richard Orr  
Relinquished by:

Received by: Richard Orr  
Received by: [Signature]  
Received by:

Date & Time: 3/21/17 12:15  
Date & Time: 3/21/17 1:27  
Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/21/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS		
								6010B Pb	572C	CA WET	6010B As	8081A	PH	6010B / H11A	8310	8082	8015 CCID			
AL-82-2.5	170322-58	3/21/17	1315	Soil	1	ice	X													
AL-82-5.0	-59		1317				X													
AL-81-0.5	-60		1327				X	X	X	X	X									
AL-81-1.0	-61		1329				X	X	X	X	X									
AL-81-2.5	-62		1330				X	X	X	X	X									
AL-81-3.0	-63		1334				X	X	X	X	X									
AL-83-0.5	-64		1347				X													
AL-83-1.0	-65		1348				X													
AL-83-2.0	-66		1351				X													
AL-84-0.5	-67		1431				X													
AL-84-1.0	-68		1432				X													
AL-84-2.5	-69		1434				X													
AL-84-5.0	-70		1435	↓			X													
100-5	-71		1501	Water	↓		X													
200-4	-72		1500	↓	4		X			X		X	X	X	X					

Company Name: Leighton Consulting  
 Address: 10532 Acacia St Ste B6  
 City/State/Zip: Rancho Cucamonga, CA 91730

Project Contact: Richard Orr  
 Tel: (909) 484-2205  
 Fax/Email: (909) 484-2170

Sampler's Signature: [Signature]  
 Project Name/ID: G03445-100

Relinquished by: [Signature]  
 Relinquished by: Pei-Chun Su  
 Relinquished by:

Received by: Pei-Chun Su  
 Received by: [Signature]  
 Received by:

Date & Time: 3/22/17  
 Date & Time: 3/22/17  
 Date & Time: 1/17

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/21/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

Date: April 11, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170322-13 through -72**

Dear Mr. Orr:

The **additional STLC-Pb results** for the soil and water samples, received by our lab on March 22, 2017, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.


Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 04/03-05/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/11/17

**EPA 6010B FOR STLC-LEAD**  
**UNIT: mg/L IN THE STLC LEACHATE**

SAMPLE I.D.	LAB I.D.	STLC-LEAD RESULT	DF
<u>AL-69-1.0</u>	<u>170322-35</u>	<u>12.0 ***</u>	<u>1</u>
<u>AL-69-2.5</u>	<u>170322-36</u>	<u>8.22 ***</u>	<u>1</u>
<u>Method Blank</u>	<u>---</u>	<u>ND</u>	<u>1</u>
	<b>MDL</b>	<b>0.02</b>	
	<b>PQL</b>	<b>0.05</b>	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 STLC = Soluble Threshold Limit Concentration  
 mg/L = Milligram Per Liter = PPM  
 \*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**Enviro - Chem, Inc.**

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

Date: April 11, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170322-13 through -72**

Dear Mr. Orr:

The **additional STLC DI-Pb results** for the soil and water samples, received by our lab on March 22, 2017, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 04/11/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/11/17

EPA 6010B FOR STLC DI-LEAD  
 UNIT: mg/L IN THE STLC LEACHATE


SAMPLE I.D.	LAB I.D.	STLC DI-LEAD RESULT	DF
<u>AL-65-2.5</u>	<u>170322-28</u>	<u>ND</u>	<u>1</u>
<u>AL-165-2.5</u>	<u>170322-32</u>	<u>0.146</u>	<u>1</u>
<u>Method Blank</u>	<u>---</u>	<u>ND</u>	<u>1</u>
	<b>MDL</b>	<b>0.02</b>	
	<b>PQL</b>	<b>0.05</b>	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 STLC = Soluble Threshold Limit Concentration  
 mg/L = Milligram Per Liter = PPM

**Extraction performed using DI Water**

\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555



## QA/QC for Metals Analysis --STLC

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/11/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	170406-18	5.00	106	PASS	0.111	5.00	4.17	81%	4.11	80%	1%
Copper(Cu)	170406-18	5.00	100	PASS	6.80	5.00	10.8	80%	10.5	74%	8%
Lead(Pb)	170406-18	5.00	99	PASS	0.129	5.00	3.09	59%	3.11	60%	1%

ANALYSIS DATE: 4/10/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170406-56	0.0125	91	PASS	0	0.0125	0.0108	86%	0.0105	84%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Copper(Cu)	PASS	FAIL *	PASS	PASS
Lead(Pb)	FAIL *	FAIL *	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST: \_\_\_\_\_ 

FINAL REVIEWER: \_\_\_\_\_ 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --STLC

**Matrix Spike/ Matrix Spike Duplicate/ LCS :**

**ANALYSIS DATE: 4/7/2017**

Unit : *mg/L (ppm)*

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	170405-50	5.00	101	PASS	0	5.00	4.28	86%	4.27	85%	0%
Copper(Cu)	170405-50	5.00	105	PASS	0.115	5.00	4.86	95%	4.85	95%	0%
Lead(Pb)	170405-50	5.00	103	PASS	0	5.00	3.77	75%	3.78	76%	0%

**ANALYSIS DATE: 3/27/2017**

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170323-54	0.0125	94	PASS	0	0.0125	0.0111	89%	0.0106	85%	5%

**MS/MSD Status:**

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Copper(Cu)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST:  \_\_\_\_\_

FINAL REVIEWER:  \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control



Jessica Lin &lt;curt.envirocheminc@gmail.com&gt;

**603445.100 (03/21/2017 Samples)**

Richard Orr &lt;rorr@leightongroup.com&gt;

Mon, Apr 3, 2017 at 2:22 PM

To: "Curtis B. Desilets" &lt;curt.envirocheminc@gmail.com&gt;, Zachary Freeman &lt;zfreeman@leightongroup.com&gt;

Yes, Please run AL-69-1.0 (Lab ID 170322-035) and AL-69-1.0 (Lab ID 170322-036) for STLC WET Citric Acid and TCLP.

Also run AL-65-2.5 and AL-165-2.5 for DI-WET - (P5)

(170322-28) (170322-32) - 32

Regards,  
Richard Orr

Geotechnical | Geoenvironmental | Materials Testing

**SOLUTIONS YOU CAN BUILD ON**

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**From:** Curtis B. Desilets [mailto:curt.envirocheminc@gmail.com]**Sent:** Monday, April 03, 2017 1:09 PM**To:** Richard Orr; Zachary Freeman**Subject:** Re: 603445.100 (03/21/2017 Samples)

[Quoted text hidden]

**Enviro - Chem, Inc.**

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

Date: April 14, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170322-13 through -72**

Dear Mr. Orr:

The **additional STLC DI-Pb results** for the soil and water samples, received by our lab on March 22, 2017, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

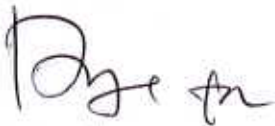
Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/22/17

SAMPLING DATE: 03/21/17

DATE ANALYZED: 04/14/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/14/17

EPA 6010B FOR STLC DI-LEAD  
UNIT: mg/L IN THE STLC LEACHATE

SAMPLE I.D.	LAB I.D.	STLC DI-LEAD RESULT	DF
<u>AL-69-1.0</u>	<u>170322-35</u>	<u>ND</u>	<u>1</u>
<u>AL-69-2.5</u>	<u>170322-36</u>	<u>ND</u>	<u>1</u>
<u>Method Blank</u>	<u>---</u>	<u>ND</u>	<u>1</u>
	<b>MDL</b>	<b>0.02</b>	
	<b>PQL</b>	<b>0.05</b>	

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF


ND = Below the Actual Detection Limit or non-detected

STLC = Soluble Threshold Limit Concentration

mg/L = Milligram Per Liter = PPM

**Extraction performed using DI Water**

\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --STLC

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/14/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	170411-5	5.00	106	PASS	0.102	5.00	4.79	94%	4.79	94%	0%
Copper(Cu)	170411-5	5.00	105	PASS	0.225	5.00	5.17	99%	5.09	97%	2%
Lead(Pb)	170411-5	5.00	107	PASS	0	5.00	4.13	83%	4.08	82%	1%

ANALYSIS DATE: 4/13/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170410-28	0.0125	94	PASS	0	0.0125	0.0104	83%	0.0109	87%	5%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Copper(Cu)	PASS	PASS	PASS	PASS
Lead(Pb)	FAIL*	FAIL*	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_ 

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**Subject:** Fwd: 603445.100 (03/21/2017 Samples)  
**From:** "Curtis B. Desilets" <curt.envirocheminc@gmail.com>  
**Date:** 4/12/2017 5:04 AM  
**To:** Jessica Lin <envirocheminc@gmail.com>

This is the one we just did additional on....

----- Forwarded message -----

**From:** Zachary Freeman <zfreeman@leightongroup.com>  
**Date:** Tue, Apr 11, 2017 at 4:30 PM  
**Subject:** RE: 603445.100 (03/21/2017 Samples)  
**To:** "Curtis B. Desilets" <curt.envirocheminc@gmail.com>  
**Cc:** Richard Orr <rorr@leightongroup.com>

Hi Curtis,

170322-35      170322-36  
Please run ~~AG~~-69-1.0 and ~~AG~~-69-2.5 for lead by the WET-DI method.  
L                      L

Thanks,

**Zach Freeman, PG**  
Environmental Project Geologist  
10532 Acacia Street Suite B-6  
Rancho Cucamonga, CA 91786  
951-743-2642 Cellular  
909-484-2205 Office  
**Leighton**  
Solutions You Can Build On

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Date: April 3, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445-100**  
Lab I.D.: **170324-2 through -78**

Dear Mr. Orr:

The **analytical results** for the soil and water samples, received by our lab on March 24, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager



**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/24/17

SAMPLING DATE: 03/23/17

DATE ANALYZED: 03/28/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

EPA 6010B FOR TTLC-LEAD; PAGE 1 OF 5  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-94-0.5	170324-2	5.69	1
AL-94-1.0	170324-3	9.01	1
AL-94-2.5	170324-4	10.8	1
AL-94-4.0	170324-5	17.2	1
AL-96-0.5	170324-6	8.22	1
AL-96-1.0	170324-7	50.3 *	1
AL-96-2.5	170324-8	3.75	1
AL-96-5.0	170324-9	2.17	1
AL-98-0.5	170324-10	16.5	1
AL-98-1.0	170324-11	51.3 *	1
AL-98-2.5	170324-12	1.79	1
AL-98-5.0	170324-13	1.35	1
AL-112-0.5	170324-14	11.4	1
AL-112-1.0	170324-15	21.4	1
AL-112-2.5	170324-16	0.595	1
AL-112-5.0	170324-17	ND	1
AL-116-0.5	170324-18	6.20	1
AL-116-1.0	170324-19	16.5	1
AL-116-2.5	170324-20	ND	1
AL-116-5.0	170324-21	ND	1

Method Blank --- ND 1

MDL 0.192  
 PQL 0.50

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**


MATRIX: SOIL DATE RECEIVED: 03/24/17  
 SAMPLING DATE: 03/23/17 DATE ANALYZED: 03/28/17  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 04/03/17

EPA 6010B FOR TTLC-LEAD; PAGE 2 OF 5  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-121-0.5	170324-22	6.94	1
AL-121-1.0	170324-23	6.42	1
AL-121-2.5	170324-24	22.4	1
AL-121-5.0	170324-25	1.07	1
AL-122-0.5	170324-26	5.48	1
AL-122-1.0	170324-27	6.20	1
AL-122-2.5	170324-28	9.14	1
AL-122-5.0	170324-29	1.53	1
AL-134-0.5	170324-30	7.55	1
AL-134-1.0	170324-31	2.88	1
AL-134-2.5	170324-32	5.00	1
AL-134-5.0	170324-33	4.04	1
AL-136-0.5	170324-34	1.77	1
Method Blank	---	ND	1
	MDL	0.192	
	PQL	0.50	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
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 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/24/17

SAMPLING DATE: 03/23/17

DATE ANALYZED: 03/28/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

EPA 6010B FOR TTLC-LEAD; PAGE 3 OF 5  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-136-1.0	170324-35	13.2	1
AL-136-2.5	170324-36	1.05	1
AL-136-5.0	170324-37	0.962	1
AL-140-0.5	170324-38	4.87	1
AL-140-1.0	170324-39	4.34	1
AL-140-2.5	170324-40	0.701	1
AL-140-5.0	170324-41	0.633	1
Method Blank	---	ND	1
	MDL	0.192	
	PQL	0.50	

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected


TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: **Leighton Consulting, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL DATE RECEIVED: 03/24/17  
 SAMPLING DATE: 03/23/17 DATE ANALYZED: 03/28/17  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 04/03/17

EPA 6010B FOR TTLC-LEAD; PAGE 4 OF 5  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-141-0.5	170324-42	3.26	1
AL-141-1.0	170324-43	0.440J	1
AL-141-2.5	170324-44	0.818	1
AL-141-5.0	170324-45	ND	1
AL-139-0.5	170324-46	2.75	1
AL-139-1.0	170324-47	1.57	1
AL-139-2.5	170324-48	ND	1
AL-139-5.0	170324-49	0.539	1
AL-137-0.5	170324-50	ND	1
AL-137-1.0	170324-51	0.440J	1
AL-137-2.5	170324-52	1.62	1
AL-137-5.0	170324-53	ND	1
AL-135-0.5	170324-54	35.7	1
AL-135-1.0	170324-55	1.07	1
AL-135-2.5	170324-56	1.56	1
AL-135-5.0	170324-57	ND	1
AL-133-0.5	170324-58	2.74	1
AL-133-1.0	170324-59	1.39	1
AL-133-2.5	170324-60	2.27	1
AL-133-5.0	170324-61	ND	1

**Method Blank** ND 1

**MDL 0.192**  
**PQL 0.50**

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL DATE RECEIVED: 03/24/17  
 SAMPLING DATE: 03/23/17 DATE ANALYZED: 03/28/17  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 04/03/17

EPA 6010B FOR TTLC-LEAD; PAGE 5 OF 5  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-128-0.5	170324-62	17.0	1
AL-128-1.0	170324-63	0.997	1
AL-128-2.5	170324-64	ND	1
AL-128-5.0	170324-65	ND	1
AL-126-0.5	170324-66	1.98	1
AL-126-1.0	170324-67	ND	1
AL-126-2.5	170324-68	ND	1
AL-126-5.0	170324-69	0.574	1
AL-124-0.5	170324-70	2.08	1
AL-124-1.0	170324-71	4.74	1
AL-124-2.5	170324-72	ND	1
AL-124-5.0	170324-73	ND	1
AL-123-0.5	170324-74	0.855	1
AL-123-1.0	170324-75	3.03	1
AL-123-2.5	170324-76	ND	1
AL-123-5.0	170324-77	ND	1
Method Blank	---	ND	1

MDL 0.192  
 PQL 0.50

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

(1 of 4)

# QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/28/2017

Unit : mg/Kg(ppm)


Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170324-12	50.0	100	PASS	0.738	50.0	48.5	96%	47.8	94%	1%
Nickel(Ni)	170324-12	50.0	102	PASS	11.7	50.0	57.8	92%	61.3	99%	7%
Lead(Pb)	170324-12	50.0	101	PASS	1.79	50.0	46.0	88%	48.5	93%	5%

ANALYSIS DATE. : 3/27/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170323-54	0.125	94	PASS	0	0.125	0.112	90%	0.107	86%	5%

## MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Nickel(Ni)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: 

FINAL REVIEWER: 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

(2/4)

# QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/28/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170324-37	50.0	102	PASS	0	50.0	47.2	94%	47.7	95%	1%
Nickel(Ni)	170324-37	50.0	97	PASS	9.35	50.0	60.3	102%	61.0	103%	1%
Lead(Pb)	170324-37	50.0	102	PASS	0.962	50.0	47.5	93%	47.7	93%	0%

ANALYSIS DATE. : 3/27/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170323-54	0.125	94	PASS	0	0.125	0.112	90%	0.107	86%	5%

## MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Nickel(Ni)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: 

FINAL REVIEWER: 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

(3/4)

# QA/QC for Metals Analysis --TTL--SOLID/SOIL MATRIX

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/28/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170324-48	50.0	105	PASS	0.836	50.0	46.5	91%	48.1	95%	3%
Chromium(Cr)	170324-48	50.0	101	PASS	6.25	50.0	59.8	107%	61.6	111%	3%
Lead(Pb)	170324-48	50.0	103	PASS	0	50.0	44.8	90%	45.7	91%	2%

ANALYSIS DATE. : 3/27/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170323-54	0.125	94	PASS	0	0.125	0.112	90%	0.107	86%	5%

## MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control



(4/4)

# QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/28/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170324-64	50.0	107	PASS	0.545	50.0	47.6	94%	49.2	97%	3%
Chromium(Cr)	170324-64	50.0	103	PASS	14.4	50.0	69.7	111%	70.9	113%	2%
Lead(Pb)	170324-64	50.0	103	PASS	0.325	50.0	47.5	94%	48.7	97%	3%

ANALYSIS DATE. : 3/27/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170323-54	0.125	94	PASS	0	0.125	0.112	90%	0.107	86%	5%

## MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: CM

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: WATER

DATE RECEIVED: 03/24/17

SAMPLING DATE: 03/23/17

DATE ANALYZED: 03/27/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

SAMPLE I.D.: **100-6**

LAB I.D.: 170324-78

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Lead (Pb)	ND	0.01	0.004	1	200.7

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

### METHOD BLANK REPORT

CUSTOMER: **Leighton Consulting, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: WATER DATE RECEIVED: 03/24/17  
SAMPLING DATE: 03/23/17 DATE ANALYZED: 03/27/17  
REPORT TO: MR. RICHARD ORR DATE REPORTED: 04/03/17

METHOD BLANK REPORT FOR LAB I.D.: 170324-78


#### TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Lead (Pb)	ND	0.01	0.004	1	200.7

#### COMMENTS

DF = Dilution Factor  
MDL = Method Detection Limit  
PQL = Practical Quantitation Limit  
J = Trace Concentration between MDL and PQL  
Actual Detection Limit = PQL X DF  
ND = Below the Actual Detection Limit or non-detected

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

## QA/QC for TLLC Metals Analysis --WATER MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/27/2017

Unit : mg/L(ppm)

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Lead(Pb)	170324-101	1.00	109	PASS	0	1.00	0.993	99%	0.995	100%	0%
Silver(Ag)	170324-101	0.10	103	PASS	0	0.10	0.098	98%	0.098	98%	0%
Zinc(Zn)	170324-101	1.00	109	PASS	0.599	1.63	1.07	29%	1.63	63%	75%

ANALYSIS DATE. : 3/23/2017

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170322-72	0.00250	96	PASS	0	0.00250	0.00220	88%	0.00210	84%	5%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Lead(Pb)	PASS	PASS	PASS	PASS
Silver(Ag)	PASS	PASS	PASS	PASS
Zinc(Zn)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/24/17

SAMPLING DATE: 03/23/17

DATE ANALYZED: 03/25-27/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/03/17

**EPA 6010B FOR STLC-LEAD  
UNIT: mg/L IN THE STLC LEACHATE**

SAMPLE I.D.	LAB I.D.	STLC-LEAD RESULT	DF
AL-136-0.5	170324-34	ND	1
AL-136-1.0	170324-35	0.742	1
AL-136-2.5	170324-36	ND	1
AL-136-5.0	170324-37	ND	1
Method Blank	---	ND	1
	MDL	0.02	
	PQL	0.05	

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL


Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

STLC = Soluble Threshold Limit Concentration

mg/L = Milligram Per Liter = PPM

\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --STLC

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/27/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	170324-114	5.00	103	PASS	0	5.00	4.95	99%	4.95	99%	0%
Copper(Cu)	170324-114	5.00	99	PASS	0	5.00	5.05	101%	5.06	101%	0%
Lead(Pb)	170324-114	5.00	104	PASS	0	5.00	4.96	99%	5.00	100%	1%

ANALYSIS DATE: 3/27/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170323-54	0.0125	94	PASS	0	0.0125	0.0111	89%	0.0106	85%	5%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Copper(Cu)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST: 

FINAL REVIEWER: 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other: \_\_\_\_\_

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS			
		DATE	TIME																		
AL-94-0.5	170324-2	3/23/17	0912	Soil	1	PK	100	X													
AL-94-1.0	- 3		0914					X													
AL-94-2.5	- 4		0915					X													
AL-94-4.0	- 5		0916					X													
AL-96-0.5	- 6		0928					X													
AL-96-1.0	- 7		0929					X													
AL-96-2.5	- 8		0931					X													
AL-96-5.0	- 9		0932					X													
AL-98-0.5	- 10		0944					X													
AL-98-1.0	- 11		0945					X													
AL-98-2.5	- 12		0947					X													
AL-98-5.0	- 13		0948					X													
AL-112-0.5	- 14		1003					X													
AL-112-1.0	- 15		1004					X													
AL-112-2.5	- 16		1006					X													

6010 B Pb

Misc./PO#  
Sample from red cap end

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/24/17 8:50</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/24/17 10:20</u>	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="radio"/> Other:		

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)
- Other: \_\_\_\_\_

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	6010B Pb					Misc./PO#
									sample from red cap end

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS
		DATE	TIME										
AL-112-5.0	170324-17	3/23/17	1007	soil	1	112	X						
AL-116-0.5	-18		1027				X						
AL-116-1.0	-19		1028				X						
AL-116-2.5	-20		1030				X						
AL-116-5.0	-21		1031				X						
AL-121-0.5	-22		1040				X						
AL-121-1.0	-23		1042				X						
AL-121-2.5	-24		1044				X						
<del>AL-121-0.5</del> AL-121-5.0	-25		1045				X						
AL-122-0.5	-26		1053				X						
AL-122-1.0	-27		1055				X						
AL-122-2.5	-28		1056				X						
AL-122-5.0	-29		1057				X						
AL-134-0.5	-30		1115				X						
AL-134-1.0	-31		1117				X						

Company Name: <i>Leighton Consulting</i>	Project Contact: <i>Richard Orr</i>	Sampler's Signature: <i>[Signature]</i>
Address: <i>10572 Arader St Ste B6</i>	Tel: <i>(909) 484-2205</i>	Project Name/ID: <i>603445-100</i>
City/State/Zip: <i>Rancho Cucamonga, CA 91730</i>	Fax/Email: <i>(909) 484-2170</i>	

Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: <i>3/24/17 8:50</i>	Instructions for Sample Storage After Analysis: <input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days) <input type="checkbox"/> Other: _____
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: <i>3/24/17 10:00</i>	
Relinquished by: _____	Received by: _____	Date & Time: _____	



**Enviro-Chem, Inc. Laboratories**1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

## Turnaround Time

- Same Day  
 24 Hours  
 48 Hours  
 72 Hours

 1 Week (Standard)

Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
		DATE	TIME									
AL-134-2.5	170324-32	3/23/17	1119	soil	1		100	X				
AL-134-5.0	- 33		1120					X				
AL-136-0.5	- 34		1134					X	X			
AL-136-1.0	- 35		1135					X	X			
AL-136-2.5	- 36		1137					X	X			
AL-136-5.0	- 37		1138					X	X			
AL-140-0.5	- 38		1151					X				
AL-140-1.0	- 39		1152					X				
AL-140-2.5	- 40		1154					X				
AL-140-5.0	- 41		1155					X				
AL-141-0.5	- 42		1250					X				
AL-141-1.0	- 43		1252					X				
AL-141-2.5	- 44		1253					X				
AL-141-5.0	- 45		1254					X				
AL-139-0.5	- 46		1304					X				

6010B Pb  
 STCC Pb  
 CA WET

Misc./PO#  
Sample from red cap end

Company Name:

Leighton Consulting

Project Contact:

Richard Orr

Sampler's Signature:

Address:

10532 Acacia St Ste B6

Tel:

(909) 484-2205

Project Name/ID:

603445-100

City/State/Zip:

Rancho Cucamonga, CA 91730

Fax/Email:

(909) 484-2170

Relinquished by:

Received by:

Date &amp; Time:

3/24/17  
8:30

Instructions for Sample Storage After Analysis:

Relinquished by:

Received by:

Date &amp; Time:

3/24/17  
1:00
 Dispose of
  Return to Client
  Store (30 Days)

Relinquished by:

Received by:

Date &amp; Time:

Other:

**CHAIN OF CUSTODY RECORD**

Date:

3/23/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

Page 3 of 6

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)

Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required								COMMENTS
		DATE	TIME													
AL-139-1.0	170374-47	3/23/17	1306	SOIL	1		ICE	X								
AL-139-2.5	- 48		1308					X								
AL-139-5.0	- 49		1309					X								
AL-137-0.5	- 50		1321					X								
AL-137-1.0	- 51		1322					X								
AL-137-2.5	- 52		1324					X								
AL-137-5.0	- 53		1325					X								
AL-135-0.5	- 54		1335					X								
AL-135-1.0	- 55		1336					X								
AL-135-2.5	- 56		<del>1338</del>					X								
AL-135-5.0	- 57		<del>1339</del>					X								
AL-133-0.5	- 58		1348					X								
AL-137-1.0	- 59		1349					X								
AL-133-2.5	- 60		1351					X								
AL-133-5.0	- 61		1352					X								

6010B Pb

Misc./PO#  
sample from red cap end

Company Name:

Leighton Consulting

Project Contact:

Richard Orr

Sampler's Signature:

*[Signature]*

Address: 10532 Acacia St Ste B6

Tel: (909) 484-2205

Project Name/ID:

603445-100

City/State/Zip: Rancho Cucamonga, CA 91730

Fax/Email: (909) 484-2170

Relinquished by:

*[Signature]*

Received by:

*[Signature]*

Date & Time:

3/23/17  
8:30

Instructions for Sample Storage After Analysis:

Relinquished by:

*[Signature]*

Received by:

*[Signature]*

Date & Time:

3/24/17  
10:00

Dispose of  Return to Client  Store (30 Days)

Relinquished by:

Received by:

Date & Time:

Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/23/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

Page 4 of 6

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
		DATE	TIME									
AL-128-0.5	170324-62	3/23/17	1404	Soil	1	ice	X					
AL-128-1.0	-63		1405				X					
AL-128-2.5	-64		1407				X					
AL-128-5.0	-65		1408				X					
AL-126-0.5	-66		1418				X					
AL-126-1.0	-67		1419				X					
AL-126-2.5	-68		1421				X					
AL-126-5.0	-69		1422				X					
AL-124-0.5	-70		1435				X					
AL-124-1.0	-71		1437				X					
AL-124-2.5	-72		1438				X					
AL-124-5.0	-73		1440				X					
AL-123-0.5	-74		1447				X					
AL-123-1.0	-75		1448				X					
AL-123-2.5	-76		1450				X					

*6010B P6*

Misc./PO#  
*Sample from red Cap end*

Company Name: *L-Eligton Consulting*  
 Address: *10522 Acacia St Ste B6*  
 City/State/Zip: *Rancho Cucamonga, CA 91730*

Project Contact: *Richard Orr*  
 Tel: *(909) 484-2205*  
 Fax/Email: *(909) 484-2270*

Sampler's Signature: *[Signature]*  
 Project Name/ID: *603445-100*

Relinquished by: *[Signature]*  
 Relinquished by: *[Signature]*  
 Relinquished by:

Received by: *[Signature]*  
 Received by: *[Signature]*  
 Received by:

Date & Time: *3/23/17 8:52*  
 Date & Time: *3/24/17 10:10*  
 Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/23/17

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS			
		DATE	TIME																		
AL-123-5.0 100-6	170324-77 -78	3/23/17	1451	soil	1	ice	X														
		3/23/17	1520	water	1	HNO <sub>3</sub>	X														

60103 PB

Misc./PO#  
 Sample from red cap end

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/24/17 8:50</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/24/17 10:00</u>	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="radio"/> Other:		

Date: 3/23/17

**CHAIN OF CUSTODY RECORD**

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro - Chem, Inc.**

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

Date: April 5, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445-100**  
Lab I.D.: **170324-2 through -78**

Dear Mr. Orr:

The **additional STLC-Pb results** for the soil and water samples, received by our lab on March 24, 2017, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

### LABORATORY REPORT

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/24/17

SAMPLING DATE: 03/23/17

DATE ANALYZED: 04/03-05/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/05/17

**EPA 6010B FOR STLC-LEAD  
 UNIT: mg/L IN THE STLC LEACHATE**

SAMPLE I.D.	LAB I.D.	STLC-LEAD RESULT	DF
<u>AL-96-1.0</u>	<u>170324-7</u>	<u>1.96</u>	<u>1</u>
<u>AL-98-1.0</u>	<u>170324-11</u>	<u>ND</u>	<u>1</u>
<u>Method Blank</u>	<u>---</u>	<u>ND</u>	<u>1</u>
	<b>MDL</b>	<b>0.02</b>	
	<b>PQL</b>	<b>0.05</b>	

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

STLC = Soluble Threshold Limit Concentration

mg/L = Milligram Per Liter = PPM

\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555





Jessica Lin &lt;curt.envirocheminc@gmail.com&gt;

---

**603445.100 (03/23/2017 Samples)**

---

Richard Orr &lt;rorr@leightongroup.com&gt;

Mon, Apr 3, 2017 at 2:17 PM

To: "Curtis B. Desilets" &lt;curt.envirocheminc@gmail.com&gt;, Zachary Freeman &lt;zfreeman@leightongroup.com&gt;

Please run Samples AL-96-1.0 and AL-98-1.0 for STLC WET Citric Acid and ~~TCLP~~

0324-9      0324-11

Regards,  
Richard Orr

Geotechnical | Geoenvironmental | Materials Testing

**SOLUTIONS YOU CAN BUILD ON**

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**From:** Curtis B. Desilets [mailto:curt.envirocheminc@gmail.com]**Sent:** Monday, April 03, 2017 1:06 PM**To:** Richard Orr; Zachary Freeman**Subject:** 603445.100 (03/23/2017 Samples)

[Quoted text hidden]



**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other: \_\_\_\_\_

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	6010 B Pb						Misc./PO#
										Sample from red cap end

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required						COMMENTS	
		DATE	TIME												
AL-94-0.5	170324-2	3/23/17	0912	Soil	1	PX	100	X							
AL-94-1.0	- 3		0914					X							
AL-94-2.5	- 4		0915					X							
AL-94-4.0	- 5		0916					X							
AL-96-0.5	- 6		0928					X							
AL-96-1.0	- 7		0929					X							
AL-96-2.5	- 8		0931					X							
AL-96-5.0	- 9		0932					X							
AL-98-0.5	- 10		0944					X							
AL-98-1.0	- 11		0945					X							
AL-98-2.5	- 12		0947					X							
AL-98-5.0	- 13		0948					X							
AL-112-0.5	- 14		1003					X							
AL-112-1.0	- 15		1004					X							
AL-112-2.5	- 16		1006					X							

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/24/17 8:50</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/24/17 10:00</u>	<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days) <input type="checkbox"/> Other:		
Relinquished by:	Received by:	Date & Time:			

**CHAIN OF CUSTODY RECORD**

Date: 3/23/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)

Other:

SAMPLE ID	LAB ID	SAMPLING TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required								COMMENTS
		DATE	TIME													
AL-112-5.0	170324-17	3/23/17	1007	Soil	1		ice	X								
AL-116-0.5	-18		1027					X								
AL-116-1.0	-19		1028					X								
AL-116-2.5	-20		1030					X								
AL-116-5.0	-21		1031					X								
AL-121-0.5	-22		1040					X								
AL-121-1.0	-23		1042					X								
AL-121-2.5	-24		1044					X								
<del>AL-121-0.5</del> AL-121-5.0	-25		1045					X								
AL-122-0.5	-26		1053					X								
AL-122-1.0	-27		1055					X								
AL-122-2.5	-28		1056					X								
AL-122-5.0	-29		1057					X								
AL-134-0.5	-30		1115					X								
AL-134-1.0	-31		1117					X								

60105 Pb

Misc./PO#  
Sample from red copy end

Company Name:

Leighton Consulting

Project Contact:

Richard Orr

Sampler's Signature:

*[Signature]*

Address: 10572 Arroyo St Ste B6

Tel: (909) 484-2205

Project Name/ID:

603445-100

City/State/Zip: Rancho Cucamonga, CA 91730

Fax/Email: (909) 484-2210

Relinquished by:

*[Signature]*

Received by:

*[Signature]*

Date & Time:

3/24/17  
8:50

Instructions for Sample Storage After Analysis:

Relinquished by:

*[Signature]*

Received by:

*[Signature]*

Date & Time:

3/24/17  
10:00

Dispose of  Return to Client  Store (30 Days)

Relinquished by:

Received by:

Date & Time:

Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/24/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS	
		DATE	TIME										
AL-134-2.5	170324-32	3/23/17	1119	soil	1		1005	X					
AL-134-5.0	- 33		1120					X					
AL-136-0.5	- 34		1134					X	X				
AL-136-1.0	- 35		1135					X	X				
AL-136-2.5	- 36		1137					X	X				
AL-136-5.0	- 37		1138					X	X				
AL-140-0.5	- 38		1151					X					
AL-140-1.0	- 39		1152					X					
AL-140-2.5	- 40		1154					X					
AL-140-5.0	- 41		1155					X					
AL-141-0.5	- 42		1250					X					
AL-141-1.0	- 43		1252					X					
AL-141-2.5	- 44		1253					X					
AL-141-5.0	- 45		1254					X					
AL-139-0.5	- 46		1304					X					

6010B Pb  
 SPEC Pb  
 CA WET

Misc./PO#  
 Sample from red cap end

Company Name: Leighton Consulting  
 Address: 10532 Acacia St Ste B6  
 City/State/Zip: Rancho Cucamonga, CA 91730

Project Contact: Richard Orr  
 Tel: (909) 484-2205  
 Fax/Email: (909) 484-2170

Sampler's Signature: [Signature]  
 Project Name/ID: 603445-100

Relinquished by: [Signature]  
 Relinquished by: [Signature]  
 Relinquished by:

Received by: [Signature]  
 Received by: [Signature]  
 Received by:

Date & Time: 3/24/17 8:50 AM  
 Date & Time: 3/24/17 1:00 PM  
 Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/23/17

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	6010B Pb										Misc./PO# Sample from red cap end

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS		
		DATE	TIME																	
AL-139-1.0	170374-47	3/23/17	1306	5091	1		icc	X												
AL-139-2.5	- 48		1308					X												
AL-139-5.0	- 49		1309					X												
AL-137-0.5	- 50		1321					X												
AL-137-1.0	- 51		1322					X												
AL-137-2.5	- 52		1324					X												
AL-137-5.0	- 53		1325					X												
AL-135-0.5	- 54		1335					X												
AL-135-1.0	- 55		1336					X												
AL-135-2.5	- 56		<del>1338</del>					X												
AL-135-5.0	- 57		<del>1339</del>					X												
AL-133-0.5	- 58		1348					X												
AL-133-1.0	- 59		1349					X												
AL-133-2.5	- 60		1351					X												
AL-133-5.0	- 61		1352					X												

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10582 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/23/17 8:50</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/24/17 10:00</u>	<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days) <input type="checkbox"/> Other:		
Relinquished by:	Received by:	Date & Time:			

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
		DATE	TIME									
AL-128-0.5	170324-62	3/23/17	1404	Soil	1	ice	X					
AL-128-1.0	-63		1405				X					
AL-128-2.5	-64		1407				X					
AL-128-5.0	-65		1408				X					
AL-126-0.5	-66		1418				X					
AL-126-1.0	-67		1419				X					
AL-126-2.5	-68		1421				X					
AL-126-5.0	-69		1422				X					
AL-124-0.5	-70		1435				X					
AL-124-1.0	-71		1437				X					
AL-124-2.5	-72		1438				X					
AL-124-5.0	-73		1440				X					
AL-123-0.5	-74		1447				X					
AL-123-1.0	-75		1448				X					
AL-123-2.5	-76		1450				X					

600B PL

Misc./PO#  
 Sample from red cap end

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91770</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/23/17 8:52</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/24/17 10:00</u>	<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days) <input type="checkbox"/> Other:		
Relinquished by:	Received by:	Date & Time:			

**CHAIN OF CUSTODY RECORD**

Date: 3/23/17

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	601013 Pb	Misc./PO#
					Sample from red cap end

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
		DATE	TIME									
AL-123-5.0	170324-77	3/23/17	1451	soil	1		ice	X				
100-6	1-78	3/23/17	1520	water	1		HNO <sub>3</sub>	X				

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax/Email: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/24/17 8:5</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/24/17 10:20</u>	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="radio"/> Other:		

**Enviro - Chem, Inc.**

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

Date: April 18, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445-100**  
Lab I.D.: **170328-1 through -73**

Dear Mr. Orr:

The **additional TTLC-Pb results** for the soil and water samples, received by our lab on March 28, 2017, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

## LABORATORY REPORT

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 04/17/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/18/17

**EPA 6010B FOR TTLC-LEAD**

UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
<u>AL-1120-0.5</u>	<u>170328-5</u>	<u>5.13</u>	<u>1</u>
<u>AL-1120-1.0</u>	<u>170328-6</u>	<u>3.12</u>	<u>1</u>
<u>AL-1120-2.5</u>	<u>170328-7</u>	<u>1.84</u>	<u>1</u>
<u>AL-1120-5.0</u>	<u>170328-8</u>	<u>1.52</u>	<u>1</u>
<u>Method Blank</u>	<u>---</u>	<u>ND</u>	<u>1</u>

MDL                      **0.192**  
 PQL                      **0.50**

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555



## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/17/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Aesenic(As)	170328-7	50.0	108	PASS	1.30	50.0	47.1	92%	46.7	91%	1%
Lead(Pb)	170328-7	50.0	111	PASS	1.84	50.0	44.4	85%	44.9	86%	1%
Nickel(Ni)	170328-7	50.0	101	PASS	0	50.0	47.0	94%	47.0	94%	0%

ANALYSIS DATE. : 4/13/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170413-3	0.125	94	PASS	0	0.125	0.103	82%	0.109	87%	6%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Aesenic(As)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Nickel(Ni)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_ 

FINAL REVIEWER: \_\_\_\_\_ 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
 CA-DHS ELAP CERTIFICATE #1555

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	6010B PB	Misc./PO# Sample from red cap and
--------	-------------------	-------------	--------------	----------	--------------------------------------

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
		DATE	TIME									
AL-120-0.5		3/27/17	0918	Soil	1	ice	X					
AL-120-1.0			0919				X					
AL-120-2.5			0920				X					
AL-120-5.0			0921				X					
AL-1120-0.5	170328-5		0929				X					hold
AL-1120-1.0	170328-6		0930				X					hold
AL-1120-2.5	170328-7		0932				X					hold
AL-1120-5.0	170328-8		0933				X					hold
AL-111-0.5			0952				X					
AL-111-1.0			0952				X					
AL-111-2.5			0953				X					
AL-111-5.0			0954				X					
AL-100-0.5			1014				X					
AL-100-1.0			1015				X					
AL-100-2.5			1017				X					

Company Name: Leighton Consulting	Project Contact: Richard Orr	Sampler's Signature: [Signature]
Address: 10572 Acacia St Ste B6	Tel: (909) 424-2205	Project Name/ID: 682445-100
City/State/Zip: Rancho Cucamonga, CA 91730	Fax: (909) 424-2170	

Relinquished by: [Signature]	Received by: [Signature]	Date & Time: 3/27/17 0830	Instructions for Sample Storage After Analysis: <input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days) <input type="checkbox"/> Other:
Relinquished by:	Received by:	Date & Time:	
Relinquished by:	Received by:	Date & Time:	

**CHAIN OF CUSTODY RECORD**

Date: 3/27/17

WHITE WITH SAMPLE - YELLOW TO CLIENT

Date: April 7, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445-100**  
Lab I.D.: **170328-1 through -73**

Dear Mr. Orr:

The **analytical results** for the soil and water samples, received by our lab on March 28, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: **SOIL**

SAMPLING DATE: **03/27/17**

REPORT TO: **MR. RICHARD ORR**

DATE RECEIVED: **03/28/17**

DATE EXTRACTED: **03/29/17**

DATE ANALYZED: **03/29-30/17**

DATE REPORTED: **04/07/17**

**TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS**

**METHOD: EPA 8015B**

**UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM**

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
EB-1-0.5	170328-61	ND	ND	ND	1
EB-1-1.0	170328-62	ND	ND	ND	1
EB-1-2.5	170328-63	ND	ND	ND	1
EB-1-5.0	170328-64	ND	ND	ND	1
EB-101-0.5	170328-65	ND	ND	ND	1
EB-101-1.0	170328-66	ND	ND	ND	1
EB-101-2.5	170328-67	ND	ND	ND	1
EB-101-5.0	170328-68	ND	ND	ND	1
EB-2-0.5	170328-69	20.1 ^	53.3 *	360	1
EB-2-1.0	170328-70	ND	ND	1110	5
EB-2-2.5	170328-71	ND	ND	113	1
EB-2-5.0	170328-72	ND	ND	ND	1
<b>METHOD BLANK</b>		ND	ND	ND	1
	<b>MDL</b>	<b>5</b>	<b>5</b>	<b>25</b>	
	<b>PQL</b>	<b>10</b>	<b>10</b>	<b>50</b>	

**COMMENTS**

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE

C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR

MDL = METHOD DETECTION LIMIT

PQL = PRACTICAL QUANTITATION LIMIT


J = TRACE CONCENTRATION BETWEEN MDL AND PQL

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

^ = PEAKS IN GASOLINE RANGE BUT CHROMATOGRAM DOES NOT MATCH THAT OF GASOLINE STANDARD

\* = PEAKS IN DIESEL RANGE BUT CHROMATOGRAM DOES NOT MATCH THAT OF DIESEL STANDARD

Data Reviewed and Approved by: 

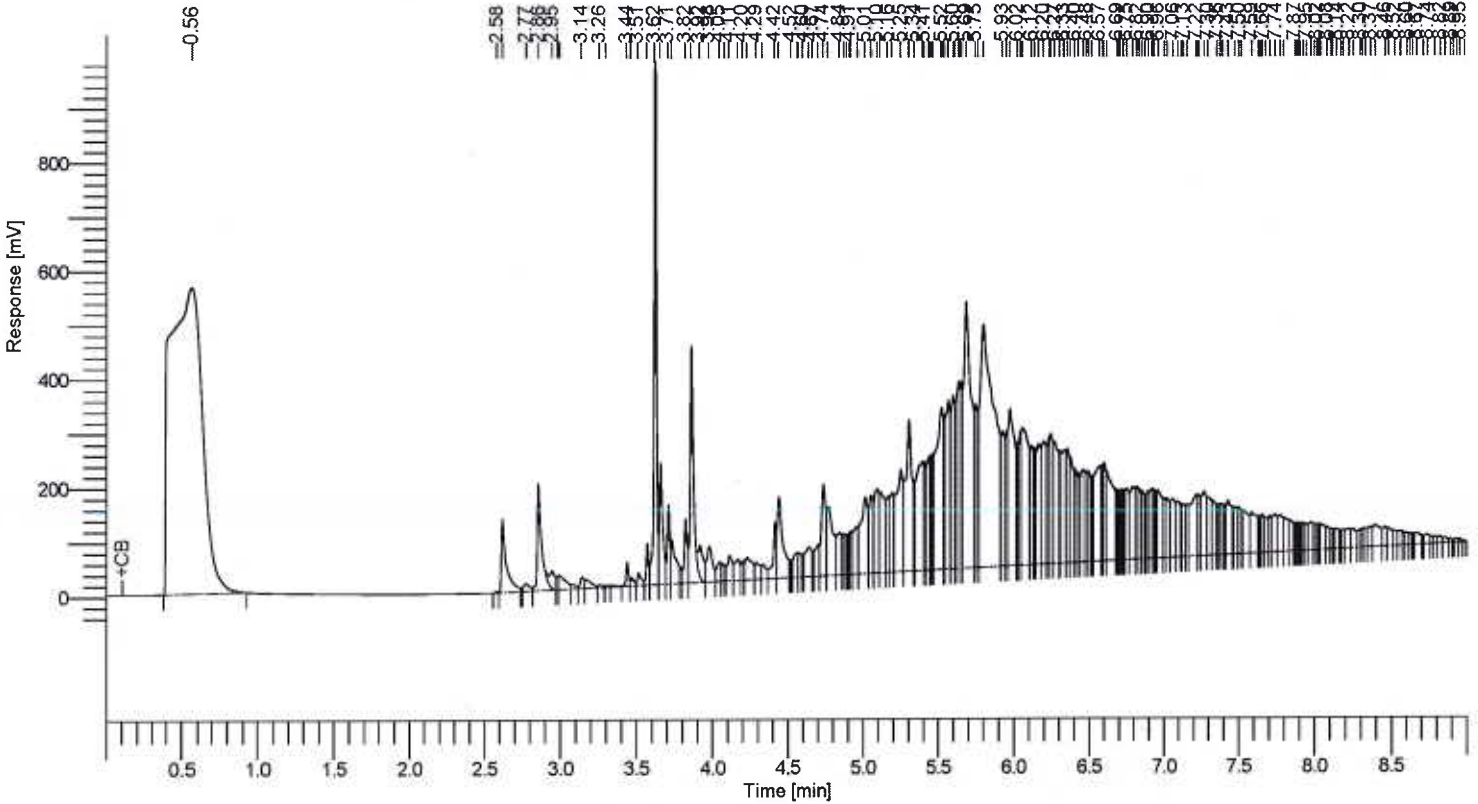
CAL-DHS ELAP CERTIFICATE No.: 1555

Software Version : 6.3.2.0646  
Sample Name : 170328-69 20/2\*\*\* RE  
Instrument Name : GC-I  
Rack/Vial : 0/39  
Sample Amount : 1.000000  
Cycle : 5

Date : 3/31/2017 9:46:28 AM  
Data Acquisition Time : 3/31/2017 8:56:23 AM  
Channel : A  
Operator : GC  
Dilution Factor : 1.000000

(EB-2-0.5)

Result File : D:\GC DATA\GC-I\02017\11703\170329\A077.rst  
Sequence File : D:\GC DATA\GC-I\02017\11703\170329\170329.seq



8015 Results

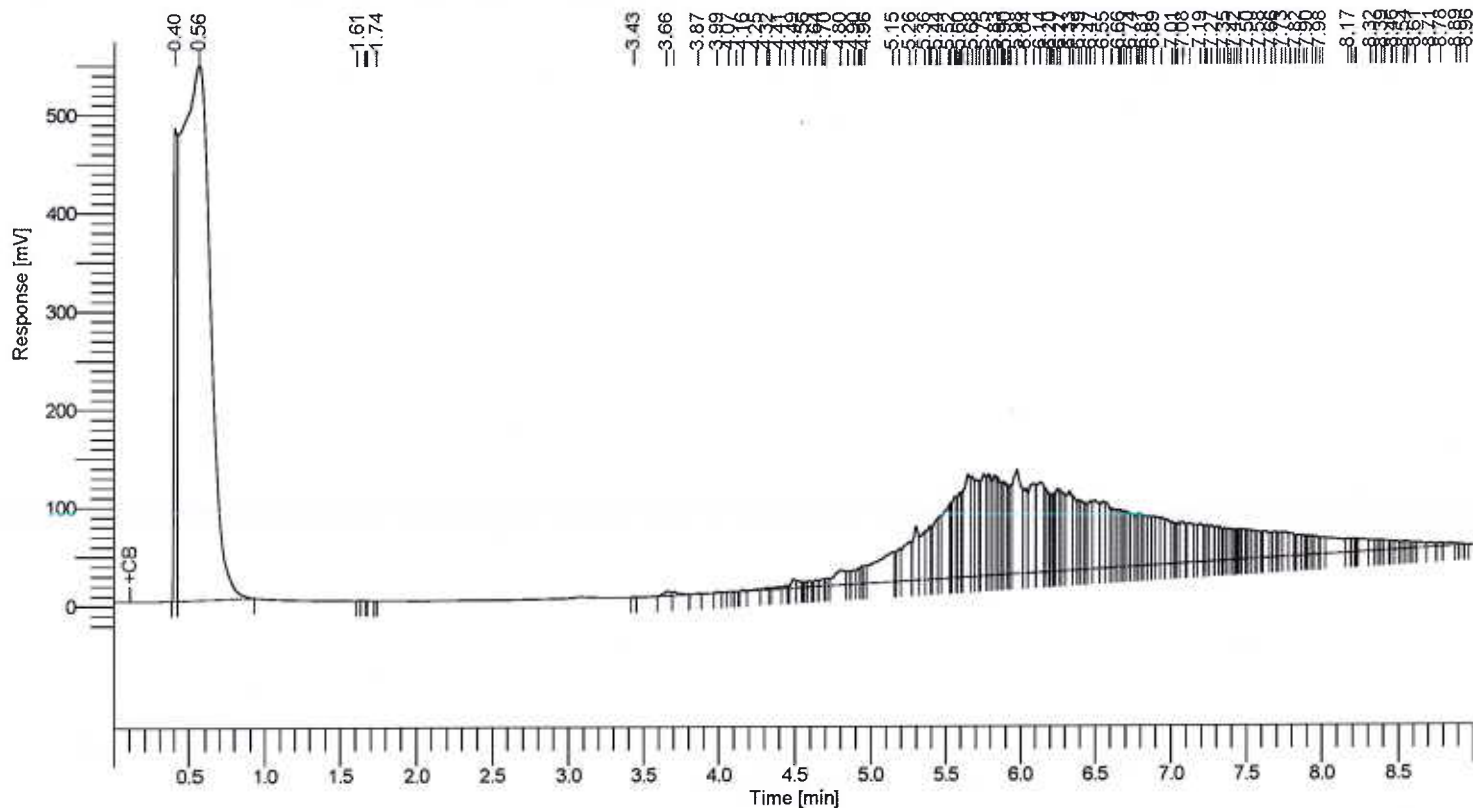
Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	751457	200.9
C11-C22	6250844	532.7
C23-C35	30070951	3598.3
	37073251	4331.9

Software Version : 6.3.2.0646  
 Sample Name : 170328-71 20/2\*\*\* RE  
 Instrument Name : GC-I  
 Rack/Vial : 0/41  
 Sample Amount : 1.000000  
 Cycle : 12

Date : 3/31/2017 10:57:37 AM  
 Data Acquisition Time : 3/31/2017 10:22:15 AM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

(EB.2-1.0)

Result File : D:\GC DATA\GC-1\02017\1703\170329\A084.rst  
 Sequence File : D:\GC DATA\GC-1\02017\1703\170329\170329.seq



8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	1177	90.0
C11-C22	278089	75.3
C23-C35	9074072	1131.6
	9353337	1296.9

## 8015B QA/QC Report

Date Analyzed: 3/29-30/2017

Units: mg/Kg (ppm)

Matrix: **Soil/Solid/Sludge/Liquid**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **170328-66 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	200	190	95%	176	88%	8%	75-125	0-20%

**LCS STD RECOVERY:**

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	186	93%	75-125

Analyzed and Reviewed By: 

Final Reviewer: 

Enviro - Chem, Inc.

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

LABORATORY REPORT

CUSTOMER: Leighton Consulting, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445-100

MATRIX: WATER

SAMPLING DATE: 03/27/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/28/17

DATE EXTRACTED: 03/28/17

DATE ANALYZED: 03/31/17

DATE REPORTED: 04/07/17

TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS

METHOD: EPA 8015B

UNIT: ug/L = MICROGRAM PER LITER = PPB

Table with 6 columns: SAMPLE I.D., LAB I.D., C4-C10, C11-C22, C23-C35, DF. Rows include sample 100-7, METHOD BLANK, and MDL/PQL values.

COMMENTS

C4-C10 = GASOLINE RANGE
C11-C22 = DIESEL RANGE
C23-C35 = MOTOR OIL RANGE
DF = DILUTION FACTOR
MDL = METHOD DETECTION LIMIT
PQL = PRACTICAL QUANTITATION LIMIT
J = TRACE CONCENTRATION BETWEEN MDL AND PQL
ACTUAL DETECTION LIMIT = DF X PQL
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555



Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

# 8015B QA/QC Report

Date Analyzed: 3/31/2017

Units: ug/L (PPB)

Matrix: **Water/Liquid**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **170328-73 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11-C22 RANGE	0	12000	9800	<b>82%</b>	10300	<b>86%</b>	<b>5%</b>	<b>75-125</b>	<b>0-20%</b>

### LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11-C22 RANGE	12000	12700	<b>106%</b>	<b>75-125</b>

Analyzed and Reviewed by: \_\_\_\_\_



Final Reviewer: \_\_\_\_\_



**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17


EPA 6010B FOR TTLC-LEAD; PAGE 1 OF 4  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-120-0.5	170328-1	3.76	1
AL-120-1.0	170328-2	1.74	1
AL-120-2.5	170328-3	ND	1
AL-120-5.0	170328-4	1.11	1
AL-111-0.5	170328-9	4.27	1
AL-111-1.0	170328-10	3.05	1
AL-111-2.5	170328-11	1.47	1
AL-111-5.0	170328-12	ND	1
AL-100-0.5	170328-13	7.64	1
AL-100-1.0	170328-14	5.23	1
AL-100-2.5	170328-15	1.88	1
AL-100-5.0	170328-16	1.99	1
AL-91-0.5	170328-17	0.779	1
AL-91-1.0	170328-18	0.994	1
AL-91-2.5	170328-19	0.914	1
AL-91-5.0	170328-20	1.12	1
AL-87-0.5	170328-21	2.30	1
AL-87-1.0	170328-22	2.07	1
AL-87-2.5	170328-23	2.75	1
AL-87-5.0	170328-24	3.40	1
Method Blank	---	ND	1

MDL 0.192  
 PQL 0.50

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17


EPA 6010B FOR TTLC-LEAD; PAGE 2 OF 4  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-85-0.5	170328-25	4.07	1
AL-85-1.0	170328-26	1.52	1
AL-85-2.5	170328-27	1.52	1
AL-85-5.0	170328-28	2.13	1
AL-80-0.5	170328-29	11.8	1
AL-80-1.0	170328-30	32.1	1
AL-80-2.5	170328-31	2.00	1
AL-80-5.0	170328-32	2.08	1
AL-79-0.5	170328-33	3.57	1
AL-79-1.0	170328-34	3.13	1
AL-79-2.5	170328-35	1.79	1
AL-79-5.0	170328-36	1.38	1
AL-57-0.5	170328-37	6.23	1
Method Blank	---	ND	1

MDL                      0.192  
 PQL                      0.50

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/29/17

REPORT TO: MR. RICHARD ORR


DATE REPORTED: 04/07/17

EPA 6010B FOR TTLC-LEAD; PAGE 3 OF 4  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
<u>AL-57-1.0</u>	170328-38	12.6	1
<u>AL-57-2.5</u>	170328-39	3.05	1
<u>AL-57-5.0</u>	170328-40	1.24	1
<u>Method Blank</u>	---	ND	1
	<b>MDL</b>	<b>0.192</b>	
	<b>PQL</b>	<b>0.50</b>	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
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 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/30/17

REPORT TO: MR. RICHARD ORR


DATE REPORTED: 04/07/17

EPA 6010B FOR TTLC-LEAD; PAGE 4 OF 4  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-56-0.5	170328-41	22.8	1
AL-56-1.0	170328-42	3.88	1
AL-56-2.5	170328-43	4.03	1
AL-56-5.0	170328-44	1.45	1
AL-118-0.5	170328-45	3.63	1
AL-118-1.0	170328-46	2.56	1
AL-118-2.5	170328-47	0.445J	1
AL-118-5.0	170328-48	0.403J	1
AL-115-0.5	170328-49	18.7	1
AL-115-1.0	170328-50	0.631	1
AL-115-2.5	170328-51	0.770	1
AL-115-5.0	170328-52	0.727	1
AL-88-0.5	170328-53	1.71	1
AL-88-1.0	170328-54	4.51	1
AL-88-2.5	170328-55	1.77	1
AL-88-5.0	170328-56	1.72	1
AL-90-0.5	170328-57	2.88	1
AL-90-1.0	170328-58	2.29	1
AL-90-2.5	170328-59	0.960	1
AL-90-5.0	170328-60	2.17	1
Method Blank	---	ND	1
	MDL	0.192	
	PQL	0.50	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

# QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/29/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170328-14	50.0	107	PASS	2.98	50.0	47.1	88%	47.8	90%	2%
Chromium(Cr)	170328-14	50.0	109	PASS	26.5	50.0	83.4	114%	84.4	116%	2%
Lead(Pb)	170328-14	50.0	102	PASS	5.23	50.0	54.5	99%	41.6	73%	30%

ANALYSIS DATE. : 3/28/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170328-84	0.125	90	PASS	0	0.125	0.108	86%	0.104	83%	4%

## MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_



FINAL REVIEWER: \_\_\_\_\_



\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

**Matrix Spike/ Matrix Spike Duplicate/ LCS :**

ANALYSIS DATE: 3/29/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170328-25	50.0	113	PASS	0.879	50.0	48.8	96%	50.1	98%	3%
Chromium(Cr)	170328-25	50.0	113	PASS	14.2	50.0	67.9	107%	69.4	110%	3%
Lead(Pb)	170328-25	50.0	109	PASS	4.07	50.0	50.9	94%	52.4	97%	3%

ANALYSIS DATE. : 3/29/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170329-1	0.125	93	PASS	0	0.125	0.101	81%	0.106	85%	5%

**MS/MSD Status:**

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: 

FINAL REVIEWER: 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

# QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/30/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170328-50	50.0	103	PASS	2.85	50.0	48.1	91%	48.3	91%	0%
Chromium(Cr)	170328-50	50.0	109	PASS	11.6	50.0	60.5	98%	60.5	98%	0%
Lead(Pb)	170328-50	50.0	104	PASS	0.631	50.0	44.9	89%	44.9	89%	0%

ANALYSIS DATE. : 3/29/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170329-1	0.125	93	PASS	0	0.125	0.101	81%	0.106	85%	5%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: 

FINAL REVIEWER: 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control



**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **EB-1-0.5**

LAB I.D.: 170328-61

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	0.692	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	157	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	16.8	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	8.17	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	13.4	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	2.15	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.012	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	6.41	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	51.5	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	47.9	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **EB-1-1.0**

LAB I.D.: 170328-62


**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	0.741	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	145	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	14.6	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.90	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	11.9	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	1.25	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.014	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	7.09	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	48.3	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	39.0	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **EB-1-2.5**

LAB I.D.: 170328-63

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	3.07	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	152	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	14.4	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.68	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	14.4	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	130 *	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.024	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	6.15	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	50.9	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	77.2	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
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 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: **SOIL**

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **EB-1-5.0**


LAB I.D.: 170328-64

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	1.38	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	122	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	11.2	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	6.44	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	11.1	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	3.55	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	0.012	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	3.52	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	46.1	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	40.5	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLT = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = **STLC analysis for the metal is recommended (if marked)**
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: **SOIL**

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **EB-101-0.5**

LAB I.D.: 170328-65

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	0.607	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	160	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	26.2	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	8.74	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	13.8	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	2.25	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.012	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	9.37	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	51.2	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	52.0	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **EB-101-1.0**

LAB I.D.: 170328-66

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	0.516	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	135	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	13.9	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	8.42	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	11.5	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	1.71	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.016	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	5.76	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	48.0	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	39.7	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **EB-101-2.5**

LAB I.D.: 170328-67

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	1.26	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	129	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	22.4	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	7.91	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	41.8	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	12.9	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	0.014	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	14.4	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	46.8	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	56.8	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **EB-101-5.0**

LAB I.D.: 170328-68

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	0.953	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	171	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	14.0	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	8.07	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	13.9	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	9.25	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	0.015	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	4.05	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	53.5	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	67.9	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555



## LABORATORY REPORT

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **EB-2-0.5**


LAB I.D.: 170328-69

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.26	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	82.8	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	18.7	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	5.39	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	25.5	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	6.53	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.015	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	8.11	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	31.5	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	210	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLT = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **EB-2-1.0**

LAB I.D.: 170328-70

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	2.22	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	62.4	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	15.6	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	6.42	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	12.8	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	12.8	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	0.012	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	9.95	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	40.0	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	51.7	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **EB-2-2.5**

LAB I.D.: 170328-71


**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	2.23	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	77.9	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	30.1	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.18	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	12.8	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	10.5	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.016	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	8.10	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	42.2	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	62.4	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: **SOIL**

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **EB-2-5.0**

LAB I.D.: 170328-72

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLIC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	3.76	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	64.6	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	4.03	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	2.12	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	7.19	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	6.06	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.012	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	1.77J	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	13.6	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	22.3	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLIC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLIC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**METHOD BLANK REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&29/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

METHOD BLANK REPORT FOR LAB I.D.: 170328-61 THROUGH -72


**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	ND	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	ND	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	ND	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	ND	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	ND	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	ND	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	ND	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	ND	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5  
 \* = STLC analysis for the metal is recommended (if marked)  
 \*\* = Additional Analysis required, please call to discuss (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)  
 -- = Not analyzed/not requested

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

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

Metals Analysis Date : 3/29/2017

Mercury Analysis Date : 3/28/2017


Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Antimony (Sb)	170328-72	50.0	104	PASS	0	50	45.3	91%	46.4	93%	9%
Arsenic (As)	170328-72	50.0	104	PASS	3.76	50	48.3	89%	49.7	92%	3%
Barium (Ba)	170328-72	50.0	107	PASS	64.6	50	115	101%	116	103%	2%
Beryllium (Be)	170328-72	50.0	96	PASS	0	50	47.2	94%	47.6	95%	1%
Cadmium (Cd)	170328-72	50.0	104	PASS	0	50	43.4	87%	44.6	89%	3%
Chromium (Cr)	170328-72	50.0	100	PASS	4.03	50	55.3	103%	56.3	105%	2%
Cobalt (Co)	170328-72	50.0	108	PASS	2.12	50	48.6	93%	49.7	95%	0%
Copper (Cu)	170328-72	50.0	103	PASS	7.19	50	57.5	101%	58.3	102%	0%
Lead (Pb)	170328-72	50.0	106	PASS	6.06	50	48.9	86%	50.2	88%	7%
Mercury (Hg)	170327-6	0.125	91	PASS	0.014	0.125	0.119	84%	0.114	80%	5%
Molybdenum(Mo)	170328-72	50.0	105	PASS	0	50	45.9	92%	47.2	94%	3%
Nickel (Ni)	170328-72	50.0	101	PASS	1.77	50	43.2	83%	44.2	85%	2%
Selenium (Se)	170328-72	50.0	110	PASS	0	50	47.7	95%	49.1	98%	3%
Silver (Ag)	170328-72	5.0	108	PASS	0	5.0	4.90	98%	5.07	101%	0%
Thallium (Tl)	170328-72	50.0	110	PASS	0	50	41.4	83%	44.1	88%	1%
Vanadium (V)	170328-72	50.0	109	PASS	13.6	50	65.9	105%	67.2	107%	1%
Zinc (Zn)	170328-72	50.0	113	PASS	22.3	50	74.6	81%	75.9	81%	0%

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

ANALYST: 

FINAL REVIEWER: 

### LABORATORY REPORT

CUSTOMER: **Leighton Consulting, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: WATER

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&30/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **100-7**

LAB I.D.: 170328-73

#### TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Antimony (Sb)	ND	0.02	0.005	1	200.7
Arsenic (As)	ND	0.01	0.005	1	200.7
Barium (Ba)	ND	0.10	0.003	1	200.7
Beryllium (Be)	ND	0.01	0.004	1	200.7
Cadmium (Cd)	ND	0.01	0.002	1	200.7
Chromium (Cr)	ND	0.01	0.003	1	200.7
Cobalt (Co)	ND	0.02	0.003	1	200.7
Copper (Cu)	0.028	0.02	0.004	1	200.7
Lead (Pb)	ND	0.01	0.004	1	200.7
Mercury (Hg)	ND	0.0005	0.0002	1	245.1
Molybdenum (Mo)	ND	0.1	0.005	1	200.7
Nickel (Ni)	ND	0.05	0.003	1	200.7
Selenium (Se)	ND	0.02	0.005	1	200.7
Silver (Ag)	ND	0.02	0.008	1	200.7
Thallium (Tl)	ND	0.02	0.009	1	200.7
Vanadium (V)	ND	0.1	0.003	1	200.7
Zinc (Zn)	0.047	0.01	0.003	1	200.7

#### COMMENTS

DF = Dilution Factor


MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**METHOD BLANK REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: WATER

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 03/28&30/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

METHOD BLANK REPORT FOR LAB I.D.: 170328-73

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Antimony (Sb)	ND	0.02	0.005	1	200.7
Arsenic (As)	ND	0.01	0.005	1	200.7
Barium (Ba)	ND	0.10	0.003	1	200.7
Beryllium (Be)	ND	0.01	0.004	1	200.7
Cadmium (Cd)	ND	0.01	0.002	1	200.7
Chromium (Cr)	ND	0.01	0.003	1	200.7
Cobalt (Co)	ND	0.02	0.003	1	200.7
Copper (Cu)	ND	0.02	0.004	1	200.7
Lead (Pb)	ND	0.01	0.004	1	200.7
Mercury (Hg)	ND	0.0005	0.0002	1	245.1
Molybdenum (Mo)	ND	0.1	0.005	1	200.7
Nickel (Ni)	ND	0.05	0.003	1	200.7
Selenium (Se)	ND	0.02	0.005	1	200.7
Silver (Ag)	ND	0.02	0.008	1	200.7
Thallium (Tl)	ND	0.02	0.009	1	200.7
Vanadium (V)	ND	0.1	0.003	1	200.7
Zinc (Zn)	ND	0.01	0.003	1	200.7

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555



## QA/QC for Metals Analysis--TTLC--WATER

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

Metals Analysis Date : 3/30/2017

Mercury Analysis Date : 3/28/2017

Unit : mg/L(ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Antimony (Sb)	170328-73	1.00	101	PASS	0	1.00	1.01	101%	1.00	100%	1%
Arsenic (As)	170328-73	1.00	101	PASS	0	1.00	1.02	102%	1.01	101%	1%
Barium (Ba)	170328-73	1.00	100	PASS	0	1.00	0.996	100%	0.980	98%	2%
Beryllium (Be)	170328-73	1.00	98	PASS	0	1.00	0.948	95%	0.980	98%	3%
Cadmium (Cd)	170328-73	1.00	105	PASS	0	1.00	1.04	104%	1.03	103%	1%
Chromium (Cr)	170328-73	1.00	100	PASS	0	1.00	0.989	99%	0.972	97%	2%
Cobalt (Co)	170328-73	1.00	97	PASS	0	1.00	1.02	102%	1.01	101%	1%
Copper (Cu)	170328-73	1.00	98	PASS	0.028	1.00	0.997	97%	0.991	96%	1%
Lead (Pb)	170328-73	1.00	105	PASS	0	1.00	1.01	101%	1.01	101%	0%
Mercury (Hg)	170328-73	0.0025	96.0	PASS	0	0.0025	0.0022	88%	0.0022	88%	0%
Molybdenum(Mo)	170328-73	1.00	102	PASS	0	1.00	1.02	102%	1.00	100%	2%
Nickel (Ni)	170328-73	1.00	96	PASS	0	1.00	0.969	97%	0.947	95%	2%
Selenium (Se)	170328-73	1.00	101	PASS	0	1.00	1.02	102%	1.01	101%	1%
Silver (Ag)	170328-73	0.10	99	PASS	0	0.100	0.094	94%	0.093	93%	1%
Thallium (Tl)	170328-73	1.00	102	PASS	0	1.00	0.944	94%	0.907	91%	4%
Vanadium (V)	170328-73	1.00	97	PASS	0	1.00	0.981	98%	0.962	96%	2%
Zinc (Zn)	170328-73	1.00	106	PASS	0.047	1.00	1.12	107%	1.10	105%	2%

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)
- Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
		DATE	TIME									
AL-120-0.5	170328-1	3/27/17	0918	Soil	1		ice	X				
AL-120-1.0	-2		0919					X				
AL-120-2.5	-3		0920					X				
AL-120-5.0	-4		0921					X				
AL-1120-0.5	-5		0929									hold
AL-1120-1.0	-6		0930									hold
AL-1120-2.5	-7		0932									hold
AL-1120-5.0	-8		<del>0933</del>									hold
AL-111-0.5	-9		0951					X				
AL-111-1.0	-10		0952					X				
AL-111-2.5	-11		0953					X				
AL-111-5.0	-12		0954					X				
AL-100-0.5	-13		1014					X				
AL-100-1.0	-14		1015					X				
AL-100-2.5	-15		1017					X				

6010B PV

Misc./PO#  
Sample from red cap end

Company Name: Leighton Consulting  
Address: 10532 Acacia St Ste B6  
City/State/Zip: Rancho Cucamonga, CA 91730

Project Contact: Richard Orr  
Tel: (909) 484-2205  
Fax: (909) 484-2170

Sampler's Signature: [Signature]  
Project Name/ID: 603445-100

Relinquished by: [Signature]  
Relinquished by: [Signature]  
Relinquished by:

Received by: [Signature]  
Received by: [Signature]  
Received by:

Date & Time: 3/28/17 0830  
Date & Time: 3/28/17 9:20  
Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/27/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS				
		DATE	TIME																			
AL-100-5.0	170328-16	3/27/17	1014	Soil	1		ice	X														
AL-91-0.5	-17		1029					X														
AL-91-1.0	-18		1030					X														
AL-91-2.5	-19		1032					X														
AL-91-5.0	-20		1033					X														
AL-87-0.5	-21		1045					X														
AL-87-1.0	-22		1047					X														
AL-87-2.5	-23		1048					X														
AL-87-5.0	-24		1049					X														
AL-85-0.5	-25		1108					X														
AL-85-1.0	-26		1109					X														
AL-85-2.5	-27		1111					X														
AL-85-5.0	-28		1112					X														
AL-80-0.5	-29		1121					X														
AL-80-1.0	-30		1122					X														

6010B Pb

Misc./PO#  
 Sample from red cap-end

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B36</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/28/17 08:20</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/28/17 9:20</u>	<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days) <input type="checkbox"/> Other:		
Relinquished by:	Received by:	Date & Time:			

**CHAIN OF CUSTODY RECORD**

Date: 3/27/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)
- Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS				
		DATE	TIME																			
AL-80-2.5	70328 -31	3/27/17	1124	soil	1		ice	X														
AL-80-5.0	-32		1125					X														
AL-79-0.5	-33		1138					X														
AL-79-1.0	-34		1139					X														
AL-79-2.5	-35		1141					X														
AL-79-5.0	-36		1142					X														
AL-57-0.5	-37		1210					X														
AL-57-1.0	-38		1212					X														
AL-57-2.5	-39		1213					X														
AL-57-5.0	-40		1214					X														
AL-56-0.5	-41		1222					X														
AL-56-1.0	-42		1223					X														
AL-56-2.5	-43		1225					X														
AL-56-5.0	-44		1226					X														
AL-118-0.5	-45		1316					X														

GOLOB Pb

Misc./PO#  
Sample from red cap end

Company Name: Leighton Consulting		Project Contact: Richard Orr		Sampler's Signature:	
Address: 10532 Acacia St Ste B6		Tel: (909) 484-2205		Project Name/ID: 603445-100	
City/State/Zip: Rancho Cucamonga, CA 91730		Fax: (909) 484-2170			
Relinquished by:	Received by:	Date & Time: 3/28/17 0830	Instructions for Sample Storage After Analysis:		
Relinquished by:	Received by:	Date & Time: 3/28/17 9:20	<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="checkbox"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 3/27/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS	
		DATE	TIME										
AL-118-1.0	170328 -46	3/27/17	1317	Soil	1		ice	X					
AL-118-2.5	-47		1319					X					
AL-118-5.0	-48		1320					X					
AL-115-0.5	-49		1331					X					
AL-115-1.0	-50		1332					X					
AL-115-2.5	-51		1334					X					
AL-115-5.0	-52		1335					X					
AL-88-0.5	-53		1349					X					
AL-88-1.0	-54		1350					X					
AL-88-2.5	-55		1351					X					
AL-88-5.0	-56		1352					X					
AL-90-0.5	-57		1401					X					
AL-90-1.0	-58		1402					X					
AL-90-2.5	-59		1404					X					
AL-90-5.0	-60		1405					X					

6010B Pb

Misc./PO#  
 Sample from red cap end

Company Name:

Leighton Consulting

Project Contact:

Richard Orr

Sampler's Signature:

*[Signature]*

Address:

10532 Acacia St Ste B6

Tel:

(909) 484-2205

Project Name/ID:

603445-100

City/State/Zip:

Rancho Cucamonga, CA 91730

Fax:

(909) 484-2170

Relinquished by:

*[Signature]*

Received by:

*[Signature]*

Date & Time:

3/28/17 0830

Instructions for Sample Storage After Analysis:

Relinquished by:

*[Signature]*

Received by:

*[Signature]*

Date & Time:

3/28/17 9:20

Dispose of  Return to Client  Store (30 Days)

Relinquished by:

Received by:

Date & Time:

Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/27/17

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS			
		DATE	TIME																		
EB-1-0.5	170328-61	3/27/17	1434	soil	1		ice	X	X	X											
EB-1-1.0	-62		1435					X	X	X											
EB-1-2.5	-63		1436					X	X	X											
EB-1-5.0	-64		1437					X	X	X											
EB-101-0.5	-65		1440					X	X	X											
EB-101-1.0	-66		1441					X	X	X											
EB-101-2.5	-67		1443					X	X	X											
EB-101-5.0	-68		1444					X	X	X											
EB-2-0.5	-69		1500					X	X	X											
EB-2-1.0	-70		1502					X	X	X											
EB-2-2.5	-71		1503					X	X	X											
EB-2-5.0	-72		1505					X	X	X											
100-7	-73		1540	water	3		HVO <sub>2</sub> /ice	X	X	X											

Misc./PO#  
*Sample from Red cap end*

*60108/7471A*  
*8015 CCID*  
*8310*

Company Name: <i>Leighton Consulting</i>		Project Contact: <i>Richard Orr</i>		Sampler's Signature: <i>[Signature]</i>	
Address: <i>10532 Acacia St Ste B36</i>		Tel: <i>(909) 484-2205</i>		Project Name/ID: <i>603445-100</i>	
City/State/Zip: <i>Rancho Cucamonga, CA 91730</i>		Fax: <i>(909) 484-2170</i>			
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: <i>3/28/17 08:30</i>	Instructions for Sample Storage After Analysis:		
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: <i>3/28/17 9:10</i>	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days) <input type="radio"/> Other:		
Relinquished by:	Received by:	Date & Time:			

**CHAIN OF CUSTODY RECORD**



## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Number of Pages 9  
Date Received 03/28/2017  
Date Reported 04/06/2017

Telephone: (909)590-5905  
Attention: Curtis Desilets

Job Number	Order Date	Client
87118	03/28/2017	ENVIRO

Project ID: 603445-100  
Project Name: (170328-1~73)

Enclosed please find results of analyses of 12 soil and 1 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

**Turnaround Time**

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)
- Other:

87118

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Misc./PO# AETZ									

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS						
		DATE	TIME																					
EB-1-0.5(170328-61)	87118.01	3/27/17	1434	SOIL	1		NONE	X																
EB-1-1.0(170328-62)	87118.02		1435					X																
EB-1-2.5(170328-63)	87118.03		1436					X																
EB-1-5.0(170328-64)	87118.04		1437					X																
EB-10-0.5(170328-65)	87118.05		1440					X																
EB-10-1.0(170328-66)	87118.06		1441					X																
EB-10-2.5(170328-67)	87118.07		1443					X																
EB-10-5.0(170328-68)	87118.08		1444					X																
EB-2-0.5(170328-69)	87118.09		1500					X																
EB-2-1.0(170328-70)	87118.10		1502					X																
EB-2-2.5(170328-71)	87118.11		1503					X																
EB-2-5.0(170328-72)	87118.12		1505					X																
100-7(170328-73)	87118.13		1510	water				X																

Company Name: <b>Enviro-Chem, Inc</b>	Project Contact: <b>Curtis Desilets</b>	Sampler's Signature:
Address: <b>1214 E. Lexington Avenue</b>	Tel: <b>909-590-5905</b>	Project Name/ID:
City/State/Zip: <b>Pomona, CA 91766</b>	Fax/Email: <b>envirocheminc@gmail.com</b>	<b>603445-1001</b> <b>(170328-61-73)</b>

Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: 3-28-17 1200	Instructions for Sample Storage After Analysis: <input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days) <input type="radio"/> Other:
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time:	
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: 3-28-17/1620	

**CHAIN OF CUSTODY RECORD**





# American Environmental Testing Laboratory Inc.

2834 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## COOLER RECEIPT FORM

Client Name: <i>Enviro Chem</i>			
Project Name:			
AETL Job Number: <i>87118</i>			
Date Received: <i>03/28/17</i>		Received by: <i>Andia</i>	
Carrier: <input checked="" type="checkbox"/> AETL/Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler ( / ) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <i>3.4</i> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input checked="" type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO <sub>3</sub> , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , <input type="checkbox"/> MeOH			
Other (Specify):			
	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	<i>Y</i>		
2. Are the Sample labels legible?	<i>Y</i>		
3. Do samples match the COC?	<i>Y</i>		
4. Are the required analyses clear?	<i>Y</i>		
5. Is there enough samples for required analysis?	<i>Y</i>		
6. Are samples sealed with evidence tape?		<i>X</i>	
7. Are sample containers in good condition?	<i>Y</i>		
8. Are samples preserved?	<i>Y</i>		
9. Are samples preserved properly for the intended analysis?	<i>Y</i>		
10. Are the VOAs free of headspace?	<i>NA</i>		
11. Are the jars free of headspace?	<i>Y</i>		

Explain all "No" answers for above questions:

---



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# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Page: 1 A

## Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Project ID: 603445-100  
Date Received 03/28/2017  
Date Reported 04/06/2017

Telephone: (909) 590-5905  
Attention: Curtis Desilets

Job Number	Order Date	Client
87118	03/28/2017	ENVIRO

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 13 samples with the following specification on 03/28/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
87118.13	100-7(170328-73)	03/27/2017	Aqueous	1
	<i>Method ^ Submethod</i>	<i>Req Date</i>	<i>Priority</i>	<i>TAT</i>
	8310	04/04/2017	2	Normal
	<i>Units</i>			ug/L
Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
87118.01	EB-1-0.5(170328-61 )	03/27/2017	Soil	1
87118.02	EB-1-1.0(170328-62 )	03/27/2017	Soil	1
87118.03	EB-1-2.5(170328-63 )	03/27/2017	Soil	1
87118.04	EB-1-5.0(170328-64 )	03/27/2017	Soil	1
87118.05	EB-101-0.5(170328-65)	03/27/2017	Soil	1
87118.06	EB-101-1.0(170328-66)	03/27/2017	Soil	1
87118.07	EB-101-2.5(170328-67)	03/27/2017	Soil	1
87118.08	EB-101-5.0(170328-68)	03/27/2017	Soil	1
87118.09	EB-2-0.5(170328-69 )	03/27/2017	Soil	1
87118.10	EB-2-1.0(170328-70 )	03/27/2017	Soil	1
87118.11	EB-2-2.5(170328-71 )	03/27/2017	Soil	1

Continued



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### Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Project ID: 603445-100  
Date Received 03/28/2017  
Date Reported 04/06/2017

Telephone: (909) 590-5905  
Attention: Curtis Desilets

Job Number	Order Date	Client
87118	03/28/2017	ENVIRO

## CERTIFICATE OF ANALYSIS

### CASE NARRATIVE

87118.11	EB-2-2.5 (170328-71 03/27/2017	Soil	1
	)		
87118.12	EB-2-5.0 (170328-72 03/27/2017	Soil	1
	)		

Method ^	Submethod	Req Date	Priority	TAT	Units
(8310)		04/04/2017	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

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 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

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Project ID: 603445-100

Project Name: (170328-1~73)

AETL Job Number	Submitted	Client
87118	03/28/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032917IB1

Our Lab I.D.		Method Blank	87118.01	87118.02	87118.03	87118.04	
Client Sample I.D.			EB-1-0.5(170 328-61)	EB-1-1.0(170 328-62)	EB-1-2.5(170 328-63)	EB-1-5.0(170 328-64)	
Date Sampled			03/27/2017	03/27/2017	03/27/2017	03/27/2017	
Date Prepared		03/29/2017	03/29/2017	03/29/2017	03/29/2017	03/29/2017	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/30/2017	03/30/2017	03/30/2017	03/30/2017	03/30/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.010	0.020	ND	ND	ND	0.0137J	ND
Benzo(b)fluoranthene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.010	0.020	ND	ND	ND	ND	ND
Chrysene	0.010	0.020	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	ND	0.0166J	ND
Fluoranthene	0.010	0.020	ND	ND	ND	0.0129J	ND
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	ND	ND	0.0180J	ND
Pyrene	0.010	0.020	ND	ND	ND	0.0135J	ND
Our Lab I.D.		Method Blank	87118.01	87118.02	87118.03	87118.04	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125	119	116	110	121	114	



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## ANALYTICAL RESULTS

### Ordered By

Enviro-Chem Laboratories  
 1214 E. Lexington Avenue  
 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

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Project ID: 603445-100

Project Name: (170328-1~73)

AETL Job Number	Submitted	Client
87118	03/28/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032917IB1

Our Lab I.D.			87118.05	87118.06	87118.07	87118.08	
Client Sample I.D.			EB-101-0.5(1 70328-65)	EB-101-1.0(1 70328-66)	EB-101-2.5(1 70328-67)	EB-101-5.0(1 70328-68)	
Date Sampled			03/27/2017	03/27/2017	03/27/2017	03/27/2017	
Date Prepared			03/29/2017	03/29/2017	03/29/2017	03/29/2017	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			03/30/2017	03/30/2017	03/30/2017	03/30/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	0.0236	
Benzo(a)pyrene	0.010	0.020	ND	ND	ND	0.0260	
Benzo(b)fluoranthene	0.010	0.020	ND	ND	ND	0.0212	
Benzo(k)fluoranthene	0.010	0.020	ND	ND	ND	0.0126J	
Chrysene	0.010	0.020	ND	ND	ND	0.0127J	
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	ND	0.0172J	
Acenaphthene	0.010	0.020	ND	ND	ND	ND	
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	
Anthracene	0.010	0.020	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	ND	ND	
Fluoranthene	0.010	0.020	ND	ND	ND	0.0361	
Fluorene	0.010	0.020	ND	ND	ND	ND	
Naphthalene	0.010	0.020	ND	ND	ND	ND	
Phenanthrene	0.010	0.020	ND	ND	ND	0.0186J	
Pyrene	0.010	0.020	ND	ND	ND	0.0263	
Our Lab I.D.			87118.05	87118.06	87118.07	87118.08	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125		114	115	110	120	



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## ANALYTICAL RESULTS

### Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

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Project ID: 603445-100

Project Name: (170328-1~73)

AETL Job Number	Submitted	Client
87118	03/28/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032917IB1

Our Lab I.D.	87118.09		
Client Sample I.D.	EB-2-0.5(170328-69)		
Date Sampled	03/27/2017		
Date Prepared	03/29/2017		
Preparation Method	3550B		
Date Analyzed	03/30/2017		
Matrix	Soil		
Units	mg/Kg		
Dilution Factor	4		
Analytes	MDL	PQL	Results
Benzo(a)anthracene	0.040	0.080	ND
Benzo(a)pyrene	0.040	0.080	ND
Benzo(b)fluoranthene	0.040	0.080	ND
Benzo(k)fluoranthene	0.040	0.080	ND
Chrysene	0.040	0.080	ND
Dibenzo(a,h)anthracene	0.040	0.080	ND
Indeno(1,2,3-cd)pyrene	0.040	0.080	ND
Acenaphthene	0.040	0.080	ND
Acenaphthylene	0.040	0.080	ND
Anthracene	0.040	0.080	ND
Benzo(g,h,i)perylene	0.040	0.080	ND
Fluoranthene	0.040	0.080	ND
Fluorene	0.040	0.080	ND
Naphthalene	0.040	0.080	ND
Phenanthrene	0.040	0.080	ND
Pyrene	0.040	0.080	ND

### Comment(s):

87118.09: Analyzed under dilution due to matrix interference



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## ANALYTICAL RESULTS

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Project ID: 603445-100  
Project Name: (170328-1~73)

AETL Job Number	Submitted	Client
87118	03/28/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

Our Lab I.D.		87118.09				
Surrogates	%Rec.Limit	% Rec.				
p-Terphenyl-D14	75-125	124				



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## ANALYTICAL RESULTS

### Ordered By

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Attn: Curtis Desilets

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Project ID: 603445-100

Project Name: (170328-1~73)

AETL Job Number	Submitted	Client
87118	03/28/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032917IB1

Our Lab I.D.			87118.10	87118.11	87118.12		
Client Sample I.D.			EB-2-1.0(170 328-70)	EB-2-2.5(170 328-71)	EB-2-5.0(170 328-72)		
Date Sampled			03/27/2017	03/27/2017	03/27/2017		
Date Prepared			03/29/2017	03/29/2017	03/29/2017		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			03/30/2017	03/30/2017	03/30/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND	ND		
Benzo(a)pyrene	0.010	0.020	ND	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	ND	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	ND	ND	ND		
Chrysene	0.010	0.020	ND	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	ND		
Acenaphthene	0.010	0.020	ND	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND	ND		
Anthracene	0.010	0.020	ND	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	ND		
Fluoranthene	0.010	0.020	ND	ND	ND		
Fluorene	0.010	0.020	ND	ND	ND		
Naphthalene	0.010	0.020	ND	ND	ND		
Phenanthrene	0.010	0.020	ND	ND	ND		
Pyrene	0.010	0.020	ND	ND	ND		
Our Lab I.D.			87118.10	87118.11	87118.12		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
p-Terphenyl-D14	75-125		114	99.8	113		





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## ANALYTICAL RESULTS

### Ordered By

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 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 7

Project ID: 603445-100

Project Name: (170328-1~73)

AETL Job Number	Submitted	Client
87118	03/28/2017	ENVIRO

Method: 8310, Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 040317IB1

Our Lab I.D.			Method Blank	87118.13		
Client Sample I.D.				100-7(170328-73)		
Date Sampled				03/27/2017		
Date Prepared			04/03/2017	04/03/2017		
Preparation Method			3510C	3510C		
Date Analyzed			04/04/2017	04/04/2017		
Matrix			Aqueous	Aqueous		
Units			ug/L	ug/L		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.10	0.20	ND	ND		
Benzo(a)pyrene	0.10	0.20	ND	ND		
Benzo(b)fluoranthene	0.10	0.20	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	ND	ND		
Chrysene	0.10	0.20	ND	ND		
Dibenzo(a,h)anthracene	0.10	0.20	ND	ND		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Acenaphthene	0.10	0.20	ND	ND		
Acenaphthylene	0.10	0.20	ND	ND		
Anthracene	0.10	0.20	ND	ND		
Benzo(g,h,i)perylene	0.10	0.20	ND	ND		
Fluoranthene	0.10	0.20	ND	ND		
Fluorene	0.10	0.20	ND	ND		
Naphthalene	0.10	0.20	ND	ND		
Phenanthrene	0.10	0.20	ND	ND		
Pyrene	0.10	0.20	ND	ND		
Our Lab I.D.			Method Blank	87118.13		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		123	123		



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## QUALITY CONTROL RESULTS

### Ordered By

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Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 8

Project ID: 603445-100

Project Name: (170328-1~73)

AETL Job Number	Submitted	Client
87118	03/28/2017	ENVIRO

Method: 8310, Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 040317IB1; Dup or Spiked Sample: 0403; LCS: Clean Water; QC Prepared: 04/03/2017; QC Analyzed: 04/04/2017;  
 Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.500	0.456	91.2	0.500	0.475	95.0	4.1	75-125	<20
Benzo(a)pyrene	0.00	0.500	0.432	86.4	0.500	0.437	87.4	1.2	75-125	<20
Naphthalene	0.00	5.00	3.91	78.2	5.00	4.16	83.2	6.2	70-120	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	4.00	4.72	118	4.00	4.84	121	2.5	75-125	<20

QC Batch No: 040317IB1; Dup or Spiked Sample: 0403; LCS: Clean Water; QC Prepared: 04/03/2017; QC Analyzed: 04/04/2017;  
 Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.500	0.466	93.2	75-125						
Benzo(a)pyrene	0.500	0.430	86.0	75-125						
Naphthalene	5.00	4.02	80.4	70-120						
<b>LCS</b>										
Acenaphthene	5.00	4.46	89.2	75-125						
Acenaphthylene	10.0	8.75	87.5	75-125						
Anthracene	0.500	0.469	93.8	75-125						
Benzo(b)fluoranthene	1.00	0.971	97.1	75-125						
Benzo(g,h,i)perylene	1.00	1.02	102	75-125						
Benzo(k)fluoranthene	0.500	0.505	101	75-125						
Chrysene	0.500	0.497	99.4	75-125						
Dibenzo(a,h)anthracene	1.00	0.954	95.4	75-125						
Fluoranthene	1.00	0.901	90.1	75-125						
Fluorene	1.00	0.895	89.5	75-125						
Indeno(1,2,3-cd)pyrene	0.500	0.413	82.6	75-125						
Phenanthrene	0.500	0.463	92.6	75-125						
Pyrene	0.500	0.525	105	60-110						
<b>Surrogates</b>										
p-Terphenyl-D14	4.00	4.64	116	75-125						



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## QUALITY CONTROL RESULTS

### Ordered By

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 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

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Project ID: 603445-100

Project Name: (170328-1~73)

AETL Job Number	Submitted	Client
87118	03/28/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 032917IB1; Dup or Spiked Sample: 87118.12; LCS: Clean Sand; QC Prepared: 03/29/2017; QC Analyzed: 03/30/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0405	81.0	0.0500	0.0405	81.0	<1	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0560	112	0.0500	0.0467	93.4	18.1	75-125	<20
Naphthalene	0.00	0.500	0.452	90.4	0.500	0.459	91.8	1.5	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.452	113	0.400	0.464	116	2.6	75-125	<20

QC Batch No: 032917IB1; Dup or Spiked Sample: 87118.12; LCS: Clean Sand; QC Prepared: 03/29/2017; QC Analyzed: 03/30/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0454	90.8	75-125						
Benzo(a)pyrene	0.0500	0.0441	88.2	75-125						
Naphthalene	0.500	0.448	89.6	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.402	80.4	75-125						
Acenaphthylene	1.00	0.872	87.2	75-125						
Anthracene	0.0500	0.0500	100	75-125						
Benzo(b)fluoranthene	0.100	0.0930	93.0	75-125						
Benzo(g,h,i)perylene	0.100	0.0974	97.4	75-125						
Benzo(k)fluoranthene	0.0500	0.0484	96.8	75-125						
Chrysene	0.0500	0.0469	93.8	75-125						
Dibenzo(a,h)anthracene	0.100	0.0898	89.8	75-125						
Fluoranthene	0.100	0.0876	87.6	75-125						
Fluorene	0.100	0.0883	88.3	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0409	81.8	75-125						
Phenanthrene	0.0500	0.0442	88.4	75-125						
Pyrene	0.0500	0.0472	94.4	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.440	110	75-125						



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • [www.aetlab.com](http://www.aetlab.com)

### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---

**Enviro - Chem, Inc.**

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

Date: April 18, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445-100**  
Lab I.D.: **170328-1 through -73**

Dear Mr. Orr:

The **additional TTLC-Pb results** for the soil and water samples, received by our lab on March 28, 2017, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/28/17

SAMPLING DATE: 03/27/17

DATE ANALYZED: 04/17/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/18/17

**EPA 6010B FOR TTLC-LEAD**

UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
<u>AL-1120-0.5</u>	170328-5	5.13	1
<u>AL-1120-1.0</u>	170328-6	3.12	1
<u>AL-1120-2.5</u>	170328-7	1.84	1
<u>AL-1120-5.0</u>	170328-8	1.52	1
<u>Method Blank</u>	---	ND	1

**MDL                      0.192**  
**PQL                      0.50**

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/17/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Aesenic(As)	170328-7	50.0	108	PASS	1.30	50.0	47.1	92%	46.7	91%	1%
Lead(Pb)	170328-7	50.0	111	PASS	1.84	50.0	44.4	85%	44.9	86%	1%
Nickel(Ni)	170328-7	50.0	101	PASS	0	50.0	47.0	94%	47.0	94%	0%

ANALYSIS DATE. : 4/13/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170413-3	0.125	94	PASS	0	0.125	0.103	82%	0.109	87%	6%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Aesenic(As)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Nickel(Ni)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_ 

FINAL REVIEWER: \_\_\_\_\_ 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control



**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
 CA-DHS ELAP CERTIFICATE #1555

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
		DATE	TIME									
AL-120-0.5		3/27/17	0918	Soil	1	ice	X					
AL-120-1.0			0919				X					
AL-120-2.5			0920				X					
AL-120-5.0			0921				X					
AL-1120-0.5	170328-5		0929				X					hold
AL-1120-1.0	170328-6		0930				X					hold
AL-1120-2.5	170328-7		0932				X					hold
AL-1120-5.0	170328-8		0933				X					hold
AL-111-0.5			0952				X					
AL-111-1.0			0952				X					
AL-111-2.5			0953				X					
AL-111-5.0			0954				X					
AL-100-0.5			1014				X					
AL-100-1.0			1015				X					
AL-100-2.5			1017				X					

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10572 Acacia St Ste B6</u>		Tel: <u>(909) 424-2206</u>		Project Name/ID: <u>682445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax: <u>(909) 424-2170</u>			
Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>		Date & Time: <u>3/27/17 0830</u>	
Relinquished by:		Received by:		Date & Time:	
Relinquished by:		Received by:		Date & Time:	

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/27/17

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro - Chem, Inc.**

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

Date: April 5, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170329-5 through -33**

Dear Mr. Orr:

The **analytical results** for the soil samples, received by our lab on March 29, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/29/17

SAMPLING DATE: 03/28/17

DATE ANALYZED: 03/29/17

REPORT TO: MR. RICHARD ORR


DATE REPORTED: 04/05/17

**pH ANALYSIS**  
**METHOD: EPA 9045C**  
**UNIT: pH UNITS**

<b>SAMPLE I.D.</b>	<b>LAB I.D.</b>	<b>pH RESULT</b>
<u>AL-93-0.5</u>	<u>170329-5</u>	<u>8.36</u>
<u>AL-93-1.0</u>	<u>170329-6</u>	<u>8.42</u>
<u>AL-93-2.5</u>	<u>170329-7</u>	<u>8.20</u>
<u>AL-109-0.5</u>	<u>170329-22</u>	<u>8.53</u>
<u>AL-109-1.0</u>	<u>170329-23</u>	<u>8.28</u>
<u>AL-109-2.5</u>	<u>170329-24</u>	<u>8.25</u>
<u>AL-109a-0.5</u>	<u>170329-25</u>	<u>8.56</u>

**COMMENTS:**

pH ANALYSIS CONDUCTED ON 1:1 SOIL/DEIONIZED WATER EXTRACTION

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

**Enviro-Chem, Inc.**

**1214 E. Lexington Avenue, Pomona, CA 91766**

**Tel (909)590-5905**

**Fax (909)590-5907**

**Matrix: Soil/Solid/Sludge**

## QA/QC Report

Analysis	Units	Date Analyzed	Sample I.D.	S.R.	Duplicate	% RPD	ACP %RPD
Alkalinity	mg/L					0.00%	0-20
Residual Chlorine	mg/Kg					0.00%	0-20
EPA 1664A	mg/Kg					0.00%	0-20
EC	umhos/cm					0.00%	0-20
pH	pH units	3/29/2017	170329-25	8.56	8.59	0.35%	0-20
TDS	mg/L					0.00%	0-20
TSS	mg/Kg					0.00%	0-20
Resistivity	ohms					0.00%	0-20
% SOLID	%					0.00%	0-20
BTU	BTU/lb					0.00%	0-20
% MOISTURE	%					0.00%	0-20

%RPD = Relative Percent Difference

ACP %RPD = Acceptable Relative Percent Difference

Analysis	Units	Date Analyzed	Sample I.D.	Spk Conc	S.R.	ACP %RPD	ACP %RC	MS	MS %RC	MSD	MSD %RC	% RPD
Acidity	mg/Kg					0-20	80-120					#VALUE!
Ammonia as N	mg/Kg					0-20	80-120					0.0%
MBAS	mg/Kg			6.0	0.0	0-20	80-120					0.0%
Chloride	mg/Kg			200	30.0	0-20	80-120					#VALUE!
COD	mg/Kg			500	0.0	0-20	80-120					#VALUE!
Cr VI	mg/Kg			4.00	0.0	0-20	80-120					#VALUE!
Cyanide	mg/Kg			10.0	0.00	0-20	80-120					0.0%
Fluoride	mg/Kg			10.0	0.2	0-20	80-120					0.0%
Nitrate as N	mg/Kg			4.00	0.0	0-20	80-120					0.0%
Nitrite as N	mg/Kg			4.00	0.0	0-20	80-120					0.0%
1664	WIPE/mg			5000	0	0-20	80-120					0.0%
Phenolics	mg/Kg					0-20	80-120					0.0%
Sulfate	mg/Kg			200	14.9	0-20	80-120					#VALUE!
Sulfide	mg/Kg			3.0	0.0	0-20	80-120					#VALUE!
TRPH	mg/Kg			667	0.0	0-20	80-120					#VALUE!
Sulfide, Dissolved /	mg/Kg			3.0	0.0	0-20	80-120					0.0%
Sulfide, Reactive	mg/Kg			3.0	0.0	0-20	80-120					#VALUE!

S.R. = Sample Results

%RC = Percent Recovery

ACP %RC = Accepted Percent Recovery

Spk Conc = Spike Concentration

Analyst Signature: \_\_\_\_\_

*wp*

Final Reviewer: \_\_\_\_\_

*Q*

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/29/17

SAMPLING DATE: 03/28/17

DATE ANALYZED: 03/30/17

REPORT TO: MR. RICHARD ORR

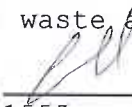
DATE REPORTED: 04/05/17

EPA 6010B FOR TTLC-LEAD; PAGE 1 OF 2  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
<u>AL-93-0.5</u>	<u>170329-5</u>	<u>14.20</u>	<u>1</u>
<u>AL-93-1.0</u>	<u>170329-6</u>	<u>3.14</u>	<u>1</u>
<u>AL-93-2.5</u>	<u>170329-7</u>	<u>4.83</u>	<u>1</u>
<u>AL-89-0.5</u>	<u>170329-8</u>	<u>3.49</u>	<u>1</u>
<u>AL-89-1.0</u>	<u>170329-9</u>	<u>1.43</u>	<u>1</u>
<u>AL-89-2.0</u>	<u>170329-10</u>	<u>4.33</u>	<u>1</u>
<u>AL-101-0.5</u>	<u>170329-11</u>	<u>7.21</u>	<u>1</u>
<u>AL-101-1.0</u>	<u>170329-12</u>	<u>8.81</u>	<u>1</u>
<u>AL-103-0.5</u>	<u>170329-13</u>	<u>13.3</u>	<u>1</u>
<u>Method Blank</u>	<u>---</u>	<u>ND</u>	<u>1</u>
	<b>MDL</b>	<b>0.084</b>	
	<b>PQL</b>	<b>0.50</b>	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste, as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/29/17

SAMPLING DATE: 03/28/17

DATE ANALYZED: 03/31/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/05/17

EPA 6010B FOR TTLC-LEAD; PAGE 2 OF 2

UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-103-1.0	170329-14	10.1	1
AL-103-2.0	170329-15	7.38	1
AL-105-0.5	170329-16	3.92	1
AL-105-1.0	170329-17	12.9	1
AL-105-2.5	170329-18	2.82	1
AL-105-3.0	170329-19	7.32	1
AL-107-0.5	170329-20	10.8	1
AL-107-1.0	170329-21	6.76	1
AL-109-0.5	170329-22	8.75	1
AL-109-1.0	170329-23	7.40	1
AL-109-2.5	170329-24	5.48	1
AL-109a0.5	170329-25	11.9	1
AL-113-0.5	170329-26	4.48	1
AL-113-1.0	170329-27	6.58	1
AL-113-2.5	170329-28	8.52	1
AL-113-3.0	170329-29	10.3	1
AL-117-0.5	170329-30	1.61	1
AL-117-1.0	170329-31	1.82	1
AL-117-2.5	170329-32	1.79	1
AL-117a-0.5	170329-33	1.79	1
Method Blank	---	ND	1
	MDL	0.084	
	PQL	0.50	

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected


TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 03/29/17

SAMPLING DATE: 03/28/17

DATE ANALYZED: 03/28/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/05/17

**EPA 6010B FOR TTLC-ARSENIC**

UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	ARSENIC RESULT	DF
<u>AL-109-0.5</u>	170329-22	1.39	1
<u>AL-109-1.0</u>	170329-23	0.908	1
<u>AL-109-2.5</u>	170329-24	0.846	1
<u>AL-109a-0.5</u>	170329-25	ND	1
<u>Method Blank</u>	---	ND	1
	<b>MDL</b>	<b>0.248</b>	
	<b>PQL</b>	<b>0.30</b>	

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

STLC Limit for Arsenic = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit @ 500 PPM, therefore the sample is defined as hazardous waste as per CCR, TITLE 22 (if marked)

Data Reviewed and Approved by: \_\_\_\_\_

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/31/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170329-23	50.0	101	PASS	0.905	50.0	39.9	78%	40.8	80%	2%
Chromium(Cr)	170329-23	50.0	99	PASS	18.1	50.0	68.0	100%	69.2	102%	2%
Lead(Pb)	170329-23	50.0	102	PASS	7.40	50.0	42.7	71%	43.7	73%	3%

ANALYSIS DATE. : 3/30/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170330-46	0.125	98	PASS	0	0.125	0.111	89%	0.108	86%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	FAIL*	FAIL*	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control



LABORATORY REPORT

CUSTOMER: Leighton Consulting, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: SOIL

DATE RECEIVED: 03/29/17

SAMPLING DATE: 03/28/17

DATE ANALYZED: 03/31/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/05/17

EPA 6010B FOR STLC-LEAD
UNIT: mg/L IN THE STLC LEACHATE

Table with 4 columns: SAMPLE I.D., LAB I.D., STLC-LEAD RESULT, DF. Rows include AL-93-0.5, AL-93-1.0, AL-93-2.5, Method Blank, MDL, and PQL.

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
STLC = Soluble Threshold Limit Concentration
mg/L = Milligram Per Liter = PPM
\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --STLC

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/31/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170317-27	5.00	103	PASS	0.338	5.00	4.44	82%	4.40	81%	1%
Chromium(Cr)	170317-27	5.00	102	PASS	0.356	5.00	4.44	82%	4.30	79%	3%
Lead(Pb)	170317-27	5.00	105	PASS	0.324	5.00	3.61	66%	3.60	66%	0%

ANALYSIS DATE: 3/27/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170323-54	0.0125	94	PASS	0	0.0125	0.0111	89%	0.0106	85%	5%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	FAIL*	FAIL*	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_ 

FINAL REVIEWER: \_\_\_\_\_ 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/28/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/29/17  
 DATE EXTRACTED: 03/29/17  
 DATE ANALYZED: 03/29/17  
 DATE REPORTED: 04/05/17

SAMPLE I.D.: **AL-109-0.5**

LAB I.D.: 170329-22

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: \_\_\_\_\_  
 CAL-DHS CERTIFICATE # 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/28/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/29/17  
 DATE EXTRACTED: 03/29/17  
 DATE ANALYZED: 03/29/17  
 DATE REPORTED: 04/05/17

SAMPLE I.D.: **AL-109-1.0**

LAB I.D.: 170329-23

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/28/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/29/17  
 DATE EXTRACTED: 03/29/17  
 DATE ANALYZED: 03/29/17  
 DATE REPORTED: 04/05/17

SAMPLE I.D.: **AL-109-2.5**

LAB I.D.: 170329-24

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	0.004	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:

CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 03/28/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/29/17  
 DATE EXTRACTED: 03/29/17  
 DATE ANALYZED: 03/29/17  
 DATE REPORTED: 04/05/17

SAMPLE I.D.: **AL-109a-0.5**

LAB I.D.: 170329-25

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

DATE RECEIVED: 03/29/17  
 DATE EXTRACTED: 03/29/17  
 DATE ANALYZED: 03/29/17  
 DATE REPORTED: 04/05/17

MATRIX: SOIL  
 SAMPLING DATE: 03/28/17  
 REPORT TO: MR. RICHARD ORR

METHOD BLANK REPORT FOR LAB I.D.: 170329-22 THROUGH -25

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



# Enviro-Chem, Inc.

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

## EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)**

Date Analyzed: **3/29-30/2017**

Unit: **mg/Kg (ppm)**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.:    170329-22 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00566	<b>113%</b>	0.00580	<b>116%</b>	<b>2%</b>	<b>0-20%</b>	<b>70-130</b>
Aldrin	0.000	0.00500	0.00601	<b>120%</b>	0.00611	<b>122%</b>	<b>2%</b>	<b>0-20%</b>	<b>70-130</b>
4,4-DDE	0.000	0.00500	0.00513	<b>103%</b>	0.00528	<b>106%</b>	<b>3%</b>	<b>0-20%</b>	<b>70-130</b>

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00560	<b>112%</b>	<b>75-125</b>
Aldrin	0.00500	0.00566	<b>113%</b>	<b>75-125</b>
4,4-DDE	0.00500	0.00499	<b>100%</b>	<b>75-125</b>
Dieldrin	0.00500	0.00587	<b>117%</b>	<b>75-125</b>

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		MB	170329-34	170329-22	170329-23	170329-24	170329-25	
Tetra-chloro-meta-xylene	50-150	142%	90%	125%	141%	132%	131%	
Decachlorobiphenyl	50-150	114%	51%	102%	68%	64%	81%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>								
Tetra-chloro-meta-xylene	50-150							
Decachlorobiphenyl	50-150							

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>								
Tetra-chloro-meta-xylene	50-150							
Decachlorobiphenyl	50-150							

S.R. = Sample Result

\* = Surrogate fail due to matrix interference (if Marked)

spk conc = Spike Concentration

**Note: LCS, MS, MSD are in control therefore results are in control.**

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: \_\_\_\_\_



**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other: \_\_\_\_\_

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	GOLD Pb SFZC Pb SMOCK WET PH			Misc./PO#
--------	-------------------	-------------	--------------	---------------------------------------	--	--	-----------

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required			COMMENTS
		DATE	TIME								
AL-93-0.5	170329-5	3/28/17	0914	Soil	1	ice		X	X	X	
AL-93-1.0	-6		0933					X	X	X	
AL-93-2.5	-7		0948					X	X	X	
AL-89-0.5	-8		1000					X			
AL-89-1.0	-9		1006					X			
AL-89-2.0	-10		1020					X			
AL-101-0.5	-11		1036					X			
AL-101-1.0	-12		1048					X			
AL-103-0.5	-13		1112					X			
AL-103-1.0	-14		1122					X			
AL-103-2.0	-15		1130					X			
AL-105-0.5	-16		1144					X			
AL-105-1.0	-17		1147					X			
AL-165-2.5	-18		1151					X			
AL-105-3.0	-19		1201					X			

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acadia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>Richard Orr</u>	Date & Time: <u>3/29/17</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>Richard Orr</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/29/17</u>	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time: <u>10-00</u>	<input type="radio"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 3/28/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
								6010B Pb	6010B As	8081A	pH	
AL-107-0.5	170329-20	3/28/17	1214	Soil	1	ice	X					
AL-107-1.0	-21		1232				X					
AL-109-0.5	-22		1247				X	X	X	X		
AL-109-1.0	-23		1250				X	X	X	X		
AL-109-2.5	-24		1256				X	X	X	X		
AL-109a-0.5	-25		1307				X	X	X	X		
<del>AL-107a-0.5</del> AL-107a-1.0	-26		1403				X					
AL-113-1.0	-27		1405				X					
AL-113-2.5	-28		1408				X					
AL-113-3.0	-29		1411				X					
AL-117-0.5	-30		1439				X					
AL-117-1.0	-31		1443				X					
AL-117-2.5	-32		1447				X					
AL-117a-0.5	-33		1449				X					

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>Richard Orr</u>	Date & Time: <u>3/28/17</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>3/29/17</u>	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="radio"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 3/28/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro - Chem, Inc.**

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

Date: April 7, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445-100**  
Lab I.D.: **170330-3 through -47**

Dear Mr. Orr:

The **analytical results** for the soil and water samples, received by our lab on March 30, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

LABORATORY REPORT

CUSTOMER: Leighton Consulting, Inc.  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445-100

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE EXTRACTED: 04/04/17

DATE ANALYZED: 04/04&05/17

DATE REPORTED: 04/07/17

TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS

METHOD: EPA 8015B

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
RR-11-0.5	170330-27	ND	ND	ND	1
RR-11a-0.5	170330-28	ND	ND	66.3	1
RR-11-1.0	170330-29	ND	ND	52.2	1
RR-11a-1.0	170330-30	ND	ND	ND	1
RR-13-0.5	170330-31	ND	ND	ND	1
RR-13-1.0	170330-32	ND	ND	ND	1
RR-13-2.5	170330-33	ND	ND	ND	1
RR-13a-0.5	170330-34	ND	ND	82.5	1
RR-14-1.0	170330-35	ND	ND	ND	1
RR-14-1.0	170330-36	ND	ND	ND	1
RR-14a-0.5	170330-37	ND	ND	ND	1
RR-14a-1.0	170330-38	ND	ND	ND	1
RR-12-0.5	170330-39	ND	ND	ND	1
RR-12-1.0	170330-40	ND	ND	ND	1
RR-12-2.5	170330-41	ND	ND	ND	1
RR-12a-0.5	170330-42	ND	ND	ND	1
RR-112-0.5	170330-43	ND	ND	ND	1
RR-112-1.0	170330-44	ND	ND	ND	1
RR-112-2.5	170330-45	ND	ND	ND	1
RR-112a-0.5	170330-46	ND	ND	ND	1
METHOD BLANK		ND	ND	ND	1
	MDL	5	5	25	
	PQL	10	10	50	

COMMENTS

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE

C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR


MDL = METHOD DETECTION LIMIT

PQL = PRACTICAL QUANTITATION LIMIT

J = TRACE CONCENTRATION BETWEEN MDL AND PQL

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## 8015B QA/QC Report

Date Analyzed: 4/4-5/2017

Units: mg/Kg (ppm)

Matrix: Soil/Solid/Sludge/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **170330-27 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	200	186	93%	195	98%	5%	75-125	0-20%

### LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	194	97%	75-125

Analyzed and Reviewed By: 

Final Reviewer: 

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: WATER

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE EXTRACTED: 03/30/17

DATE ANALYZED: 04/05/17

DATE REPORTED: 04/07/17

**TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS**

METHOD: EPA 8015B

UNIT:  $\mu\text{G/L}$  = MICROGRAM PER LITER = PPB

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
<u>200-6</u>	<u>170330-47</u>	<u>ND</u>	<u>ND</u>	<u>ND</u>	<u>1</u>
<u>METHOD BLANK</u>		<u>ND</u>	<u>ND</u>	<u>ND</u>	<u>1</u>
	MDL	250	250	2500	
	PQL	500	500	5000	

**COMMENTS**

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE

C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR


MDL = METHOD DETECTION LIMIT

PQL = PRACTICAL QUANTITATION LIMIT

J = TRACE CONCENTRATION BETWEEN MDL AND PQL

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

## 8015B QA/QC Report

Date Analyzed: 4/5/2017

Units: ug/L (PPB)

Matrix: **Water/Liquid**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **170330-47 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11-C22 RANGE	0	12000	12200	<b>102%</b>	13400	<b>112%</b>	<b>9%</b>	<b>75-125</b>	<b>0-20%</b>

### LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11-C22 RANGE	12000	10500	<b>88%</b>	<b>75-125</b>

Analyzed and Reviewed by: 

Final Reviewer: 

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE ANALYZED: 03/31/17


DATE REPORTED: 04/07/17

EPA 6010B FOR TTLC-LEAD; PAGE 1 OF 2  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-125-0.5	170330-3	6.53	1
AL-125a-0.5	170330-4	6.46	1
AL-125-1.0	170330-5	4.37	1
AL-125a-1.0	170330-6	3.25	1
AL-127-0.5	170330-7	24.2	1
AL-127a-0.5	170330-8	38.1	1
AL-1127-0.5	170330-9	13.0	1
AL-1127a-0.5	170330-10	12.0	1
AL-127-1.0	170330-11	32.0	1
AL-127a-1.0	170330-12	13.6	1
AL-1127-1.0	170330-13	10.7	1
AL-1127a-1.0	170330-14	19.5	1
AL-129-0.5	170330-15	80.7 *	1
AL-129a-0.5	170330-16	34.8	1
AL-129-1.0	170330-17	1.18	1
AL-129a-1.0	170330-18	31.8	1
AL-132-0.5	170330-19	9.31	1
AL-132-1.0	170330-20	8.68	1
AL-132-2.5	170330-21	16.3	1
AL-132-5.0	170330-22	16.3	1
Method Blank	---	ND	1
	MDL	0.084	
	PQL	0.50	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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



**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**


MATRIX: SOIL DATE RECEIVED: 03/30/17  
 SAMPLING DATE: 03/29/17 DATE ANALYZED: 04/03/17  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 04/07/17

EPA 6010B FOR TTLC-LEAD; PAGE 2 OF 2  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-138-0.5	170330-23	6.21	1
AL-138a-0.5	170330-24	11.2	1
AL-138-1.0	170330-25	92.7 *	1
AL-138a-1.0	170330-26	115 *	1
Method Blank	---	ND	1
	MDL	0.084	
	PQL	0.50	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

**Matrix Spike/ Matrix Spike Duplicate/ LCS :**

ANALYSIS DATE: 3/31/2017

Unit : mg/Kg(ppm)


Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170330-13	50.0	101	PASS	2.33	50.0	44.4	84%	44.8	85%	1%
Chromium(Cr)	170330-13	50.0	98	PASS	28.5	50.0	68.7	80%	68.7	80%	0%
Lead(Pb)	170330-13	50.0	101	PASS	10.7	50.0	48.2	75%	48.6	76%	1%

ANALYSIS DATE. : 3/30/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170330-46	0.125	98	PASS	0	0.125	0.111	89%	0.108	86%	3%

**MS/MSD Status:**

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: 

FINAL REVIEWER: 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

(PAGE 2 of 2)

# QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/3/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170331-16	50.0	106	PASS	1.36	50.0	47.7	93%	48.0	93%	1%
Chromium(Cr)	170331-16	50.0	109	PASS	13.9	50.0	59.0	90%	59.9	92%	2%
Lead(Pb)	170331-16	50.0	104	PASS	4.73	50.0	44.7	80%	45.6	82%	2%

ANALYSIS DATE. : 3/30/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170330-46	0.125	98	PASS	0	0.125	0.111	89%	0.108	86%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**Enviro - Chem, Inc.**

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**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: **SOIL**

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

**EPA 6010B FOR STLC-LEAD  
UNIT: mg/L IN THE STLC LEACHATE**


SAMPLE I.D.	LAB I.D.	STLC-LEAD RESULT	DF
<u>AL-127-0.5</u>	170330-7	0.283	1
<u>AL-127a-0.5</u>	170330-8	1.20	1
<u>AL-1127-0.5</u>	170330-9	0.497	1
<u>AL-1127a-0.5</u>	170330-10	0.469	1
<u>AL-127-1.0</u>	170330-11	1.09	1
<u>AL-127a-1.0</u>	170330-12	0.412	1
<u>AL-1127-1.0</u>	170330-13	0.583	1
<u>AL-1127a-1.0</u>	170330-14	0.723	1

Method Blank                      ---                      ND                      1

MDL                      0.02  
PQL                      0.05

**COMMENTS:**

DF = Dilution Factor  
MDL = Method Detection Limit  
PQL = Practical Quantitation Limit  
J = Trace Concentration between MDL and PQL  
Actual Detection Limit = PQL X DF  
ND = Below the Actual Detection Limit or non-detected  
STLC = Soluble Threshold Limit Concentration  
mg/L = Milligram Per Liter = PPM  
\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

## QA/QC for Metals Analysis --STLC

**Matrix Spike/ Matrix Spike Duplicate/ LCS :**

ANALYSIS DATE: 4/3/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	170331-58	5.00	104	PASS	0	5.00	4.93	99%	5.00	100%	1%
Copper(Cu)	170331-58	5.00	100	PASS	0	5.00	4.89	98%	4.94	99%	1%
Lead(Pb)	170331-58	5.00	105	PASS	0	5.00	4.77	95%	4.81	96%	1%

ANALYSIS DATE: 3/27/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170323-54	0.0125	94	PASS	0	0.0125	0.0111	89%	0.0106	85%	5%

**MS/MSD Status:**

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Copper(Cu)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-11-0.5**

LAB I.D.: 170330-27


### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.48	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	112	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	11.4	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.61	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	9.33	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	4.17	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	3.33	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	40.9	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	53.1	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5  
 \* = STLC analysis for the metal is recommended (if marked)  
 \*\* = Additional Analysis required, please call to discuss (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)  
 -- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE ANALYZED: 03/30&04/03/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-11a-0.5**


LAB I.D.: 170330-28

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	3.21	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	136	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	13.3	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	8.51	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	11.2	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	12.5	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	4.50	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	46.6	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	58.7	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

### LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-11-1.0**

LAB I.D.: 170330-29

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	7.56	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	169	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	12.3	0.5	0.138	1	2,500	560/500	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	5.45	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	9.21	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	3.58	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	4.20	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	34.7	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	43.4	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
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 @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5  
 \* = STLC analysis for the metal is recommended (if marked)  
 \*\* = Additional Analysis required, please call to discuss (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)  
 -- = Not analyzed/not requested

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



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
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 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE ANALYZED: 03/30&04/03/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-11a-1.0**


LAB I.D.: 170330-30

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	3.31	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	115	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	15.4	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.57	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	9.76	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	5.45	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	4.11	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	43.4	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	46.7	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5  
 \* = STLC analysis for the metal is recommended (if marked)  
 \*\* = Additional Analysis required, please call to discuss (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)  
 -- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-13-0.5**


LAB I.D.: 170330-31

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	11.9	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	125	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	12.0	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.44	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	9.31	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	3.11	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	3.61	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	45.4	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	39.9	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE ANALYZED: 03/30&04/03/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-13-1.0**


LAB I.D.: 170330-32

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	5.96	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	116	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	11.6	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.91	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	8.42	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	2.18	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	3.32	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	44.7	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	37.8	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE ANALYZED: 03/30&04/03/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-13-2.5**

LAB I.D.: 170330-33

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	41.8	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	89.7	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	13.6	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.42	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	8.26	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	2.25	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	4.50	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	43.2	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	33.2	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE ANALYZED: 03/30&04/03/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-13a-0.5**


LAB I.D.: 170330-34

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLIC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	6.13	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	97.3	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	17.0	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	5.77	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	13.0	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	13.4	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	4.05	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	39.1	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	66.6	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLIC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLIC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-14-0.5**

LAB I.D.: 170330-35


**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.20	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	101	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	0.492J	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	16.6	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.29	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	8.03	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	7.00	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	4.02	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	35.8	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	51.8	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE ANALYZED: 03/30&04/03/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-14-1.0**


LAB I.D.: 170330-36

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	8.07	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	123	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	15.3	0.5	0.138	1	2,500	560/500	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	8.01	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	11.4	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	3.43	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	8.22	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	44.1	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	39.5	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5  
 \* = STLC analysis for the metal is recommended (if marked)  
 \*\* = Additional Analysis required, please call to discuss (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)  
 -- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-14a-0.5**


LAB I.D.: 170330-37

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	2.62	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	82.3	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	15.3	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	6.02	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	7.76	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	7.55	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	4.68	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	32.3	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	37.5	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE ANALYZED: 03/30&04/03/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-14a-1.0**


LAB I.D.: 170330-38

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	11.3	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	151	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	16.1	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	8.95	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	15.9	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	5.13	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	5.16	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	51.0	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	51.7	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-12-0.5**

LAB I.D.: 170330-39


**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	6.90	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	137	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	18.1	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	9.53	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	15.1	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	9.34	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	7.14	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	58.4	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	57.9	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE ANALYZED: 03/30&04/03/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-12-1.0**

LAB I.D.: 170330-40


### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	8.08	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	163	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	19.4	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	9.67	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	14.7	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	6.08	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	7.22	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	56.2	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	55.4	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-12-2.5**

LAB I.D.: 170330-41

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

**UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM**

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	25.7	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	131	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	17.4	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	7.68	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	10.2	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	3.98	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	4.47	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	45.7	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	44.2	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-12a-0.5**


LAB I.D.: 170330-42

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	6.20	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	162	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	20.6	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	9.62	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	18.2	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	5.31	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	10.4	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	57.9	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	54.6	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-112-0.5**

LAB I.D.: 170330-43

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	6.76	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	139	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	18.8	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	9.22	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	14.9	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	6.60	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	8.36	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	56.5	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	49.3	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-112-1.0**

LAB I.D.: 170330-44

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	7.86	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	158	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	17.9	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	9.10	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	13.9	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	4.86	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	7.13	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	56.7	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	50.0	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLT = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5  
 \* = STLC analysis for the metal is recommended (if marked)  
 \*\* = Additional Analysis required, please call to discuss (if marked)  
 \*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)  
 -- = Not analyzed/not requested

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

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-112-2.5**

LAB I.D.: 170330-45


**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	34.6	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	130	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	18.2	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	8.69	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	13.7	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	3.21	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	8.29	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	50.2	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	44.4	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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



Enviro - Chem, Inc.

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

LABORATORY REPORT

CUSTOMER: Leighton & Associates, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445-100

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE ANALYZED: 03/30&04/03/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: RR-112a-0.5

LAB I.D.: 170330-46

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

Table with 8 columns: ELEMENT ANALYZED, SAMPLE RESULT, PQL, MDL, DF, TTLC LIMIT, STLC LIMIT, EPA METHOD. Lists various elements like Antimony, Arsenic, Barium, etc., with their respective values and limits.

COMMENTS

DF = Dilution Factor
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
\* = STLC analysis for the metal is recommended (if marked)
\*\* = Additional Analysis required, please call to discuss (if marked)
\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
-- = Not analyzed/not requested

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17


METHOD BLANK FOR LAB I.D. :  
 170330-27 THROUGH -46

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic(As)	ND	0.3	0.248	1	500	5.0	6010B
Barium(Ba)	ND	5.0	0.143	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total(Cr)	ND	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt(Co)	ND	1.0	0.156	1	8,000	80	6010B
Copper(Cu)	ND	1.0	0.203	1	2,500	25	6010B
Lead(Pb)	ND	0.5	0.192	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel(Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium(Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver(Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium(V)	ND	5.0	0.171	1	2,400	24	6010B
Zinc(Zn)	ND	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

- DF = Dilution Factor
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- J = Trace Concentration between MDL and PQL
- Actual Detection Limit = PQL X DF
- ND = Below the Actual Detection Limit or non-detected
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
- \* = STLC analysis for the metal is recommended (if marked)
- \*\* = Additional Analysis required, please call to discuss (if marked)
- \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
- = Not analyzed/not requested

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

## QA/QC for Metals Analysis--TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

Metals Analysis Date : 4/3/2017

Mercury Analysis Date : 3/30/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Antimony (Sb)	170330-35	50.0	102	PASS	0	50	44.2	88%	45.1	90%	9%
Arsenic (As)	170330-35	50.0	104	PASS	1.20	50	46.1	90%	47.1	92%	2%
Barium (Ba)	170330-35	50.0	106	PASS	101	50	141	80%	141	80%	0%
Beryllium (Be)	170330-35	50.0	105	PASS	0	50	46.2	92%	48.1	96%	4%
Cadmium (Cd)	170330-35	50.0	115	PASS	0.492	50	46.2	91%	47.1	93%	2%
Chromium (Cr)	170330-35	50.0	108	PASS	16.6	50	60.2	87%	62.2	91%	4%
Cobalt (Co)	170330-35	50.0	109	PASS	6.29	50	47.0	81%	47.8	83%	0%
Copper (Cu)	170330-35	50.0	98	PASS	8.03	50	52.6	89%	54.2	92%	0%
Lead (Pb)	170330-35	50.0	105	PASS	7.00	50	54.7	95%	55.7	97%	7%
Mercury (Hg)	170330-46	0.125	98	PASS	0	0.125	0.111	89%	0.108	86%	3%
Molybdenum(Mo)	170330-35	50.0	106	PASS	0	50	45.1	90%	45.9	92%	2%
Nickel (Ni)	170330-35	50.0	97	PASS	4.02	50	50.1	92%	52.0	96%	4%
Selenium (Se)	170330-35	50.0	108	PASS	0	50	44.4	89%	45.2	90%	2%
Silver (Ag)	170330-35	5.0	100	PASS	0	5.0	4.15	83%	4.26	85%	0%
Thallium (Tl)	170330-35	50.0	110	PASS	0	50	54.9	110%	56.8	114%	1%
Vanadium (V)	170330-35	50.0	103	PASS	35.8	50	78.6	86%	80.2	89%	1%
Zinc (Zn)	170330-35	50.0	115	PASS	51.8	50	100	81%	101	81%	0%

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: WATER

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/04/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

SAMPLE I.D.: **200-6**

LAB I.D.: 170330-47

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Antimony (Sb)	ND	0.02	0.005	1	200.7
Arsenic (As)	ND	0.01	0.005	1	200.7
Barium (Ba)	ND	0.10	0.003	1	200.7
Beryllium (Be)	ND	0.01	0.004	1	200.7
Cadmium (Cd)	ND	0.01	0.002	1	200.7
Chromium (Cr)	ND	0.01	0.003	1	200.7
Cobalt (Co)	ND	0.02	0.003	1	200.7
Copper (Cu)	0.223	0.02	0.004	1	200.7
Lead (Pb)	ND	0.01	0.004	1	200.7
Mercury (Hg)	ND	0.0005	0.0002	1	245.1
Molybdenum (Mo)	ND	0.1	0.005	1	200.7
Nickel (Ni)	ND	0.05	0.003	1	200.7
Selenium (Se)	ND	0.02	0.005	1	200.7
Silver (Ag)	ND	0.02	0.008	1	200.7
Thallium (Tl)	ND	0.02	0.009	1	200.7
Vanadium (V)	ND	0.1	0.003	1	200.7
Zinc (Zn)	0.087	0.01	0.003	1	200.7

**COMMENTS**

DF = Dilution Factor


MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: WATER

DATE RECEIVED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 03/30&04/04/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

METHOD BLANK REPORT FOR LAB I.D.: 170330-47

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Antimony (Sb)	ND	0.02	0.005	1	200.7
Arsenic (As)	ND	0.01	0.005	1	200.7
Barium (Ba)	ND	0.10	0.003	1	200.7
Beryllium (Be)	ND	0.01	0.004	1	200.7
Cadmium (Cd)	ND	0.01	0.002	1	200.7
Chromium (Cr)	ND	0.01	0.003	1	200.7
Cobalt (Co)	ND	0.02	0.003	1	200.7
Copper (Cu)	ND	0.02	0.004	1	200.7
Lead (Pb)	ND	0.01	0.004	1	200.7
Mercury (Hg)	ND	0.0005	0.0002	1	245.1
Molybdenum (Mo)	ND	0.1	0.005	1	200.7
Nickel (Ni)	ND	0.05	0.003	1	200.7
Selenium (Se)	ND	0.02	0.005	1	200.7
Silver (Ag)	ND	0.02	0.008	1	200.7
Thallium (Tl)	ND	0.02	0.009	1	200.7
Vanadium (V)	ND	0.1	0.003	1	200.7
Zinc (Zn)	ND	0.01	0.003	1	200.7

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --TTLC--WATER

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

Metals Analysis Date : 4/4/2017

Mercury Analysis Date : 3/30/2017

Unit : mg/L(ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Antimony (Sb)	170330-47	1.00	104	PASS	0	1.00	0.996	100%	1.00	100%	0%
Arsenic (As)	170330-47	1.00	103	PASS	0	1.00	0.996	100%	1.00	100%	0%
Barium (Ba)	170330-47	1.00	106	PASS	0	1.00	1.01	101%	1.01	101%	0%
Beryllium (Be)	170330-47	1.00	105	PASS	0	1.00	1.06	106%	1.03	103%	3%
Cadmium (Cd)	170330-47	1.00	109	PASS	0	1.00	1.01	101%	1.02	102%	1%
Chromium (Cr)	170330-47	1.00	106	PASS	0	1.00	1.00	100%	0.993	99%	1%
Cobalt (Co)	170330-47	1.00	106	PASS	0	1.00	0.998	100%	0.985	99%	1%
Copper (Cu)	170330-47	1.00	104	PASS	0.223	1.00	1.24	102%	1.22	100%	2%
Lead (Pb)	170330-47	1.00	107	PASS	0	1.00	1.01	101%	1.01	101%	0%
Mercury (Hg)	170329-111	0.0025	92.0	PASS	0	0.0025	0.0022	88%	0.0021	84%	5%
Molybdenum(Mo)	170330-47	1.00	105	PASS	0	1.00	0.986	99%	0.996	100%	1%
Nickel (Ni)	170330-47	1.00	104	PASS	0	1.00	1.01	101%	1.00	100%	1%
Selenium (Se)	170330-47	1.00	104	PASS	0	1.00	1.01	101%	1.01	101%	0%
Silver (Ag)	170330-47	0.10	104	PASS	0	0.100	0.097	97%	0.096	96%	1%
Thallium (Tl)	170330-47	1.00	108	PASS	0	1.00	1.02	102%	1.01	101%	1%
Vanadium (V)	170330-47	1.00	103	PASS	0	1.00	1.01	101%	1.01	101%	0%
Zinc (Zn)	170330-47	1.00	108	PASS	0.087	1.00	1.10	101%	1.08	99%	2%

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE EXTRACTED: 04/03/17

DATE ANALYZED: 04/03&04/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-11-0.5**

LAB I.D.: 170330-27

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:

CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE EXTRACTED: 04/03/17

DATE ANALYZED: 04/03&04/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-11a-0.5**

LAB I.D.: 170330-28

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555





## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL  
SAMPLING DATE: 03/29/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17  
DATE EXTRACTED: 04/03/17  
DATE ANALYZED: 04/03&04/17  
DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-11-1.0**


LAB I.D.: 170330-29

**Organochlorine Pesticides & PCBs Analysis**  
Method: EPA 8081A/8082  
Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
MDL = Method Detection Limit  
Actual Detection Limit = PQL X DF  
PQL = Practical Quantitation Limit  
J = Trace Concentration between MDL and PQL  
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
CAL-DHS CERTIFICATE # 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL  
 SAMPLING DATE: 03/29/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17  
 DATE EXTRACTED: 04/03/17  
 DATE ANALYZED: 04/03&04/17  
 DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-11a-1.0**

LAB I.D.: 170330-30

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: \_\_\_\_\_  
 CAL-DHS CERTIFICATE # 1555

Enviro - Chem, Inc.

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LABORATORY REPORT

CUSTOMER: Leighton & Associates, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445-100

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE EXTRACTED: 04/03/17

DATE ANALYZED: 04/03&04/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: RR-13-0.5

LAB I.D.: 170330-31

Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

Table with 5 columns: PARAMETER, SAMPLE RESULT, PQL, MDL, DF. Lists various pesticides and PCBs with their respective results and limits.

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
Actual Detection Limit = PQL X DF
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:
CAL-DHS CERTIFICATE # 1555

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### LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445-100

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE EXTRACTED: 04/03/17

DATE ANALYZED: 04/03&04/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: RR-13-1.0

LAB I.D.: 170330-32

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



Enviro - Chem, Inc.

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LABORATORY REPORT

CUSTOMER: Leighton & Associates, Inc.
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Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com
PROJECT: 603445-100

MATRIX: SOIL
SAMPLING DATE: 03/29/17
REPORT TO: MR. RICHARD ORR
DATE RECEIVED: 03/30/17
DATE EXTRACTED: 04/03/17
DATE ANALYZED: 04/03&04/17
DATE REPORTED: 04/07/17

SAMPLE I.D.: RR-13-2.5 LAB I.D.: 170330-33

Organochlorine Pesticides & PCBs Analysis
Method: EPA 8081A/8082
Unit: mg/Kg = Milligram per Kilogram = PPM

Table with 5 columns: PARAMETER, SAMPLE RESULT, PQL, MDL, DF. Lists various pesticides and PCBs with their respective results and limits.

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
Actual Detection Limit = PQL X DF
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:
CAL-DHS CERTIFICATE # 1555

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PROJECT: 603445-100

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE EXTRACTED: 04/03/17

DATE ANALYZED: 04/03&04/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: RR-13a-0.5

LAB I.D.: 170330-34

Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

Table with 5 columns: PARAMETER, SAMPLE RESULT, PQL, MDL, DF. Lists various pesticides and PCBs with their respective detection limits and dilution factors.

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
Actual Detection Limit = PQL X DF
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:
CAL-DHS CERTIFICATE # 1555

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## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
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Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE EXTRACTED: 04/03/17

DATE ANALYZED: 04/03&04/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-14-0.5**

LAB I.D.: 170330-35

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

#### COMMENTS:

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:

CAL-DHS CERTIFICATE # 1555



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PROJECT: 603445-100

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE EXTRACTED: 04/03/17

DATE ANALYZED: 04/03&04/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: RR-14-1.0

LAB I.D.: 170330-36

Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

Table with 5 columns: PARAMETER, SAMPLE RESULT, PQL, MDL, DF. Lists various pesticides and PCBs with their respective results and limits.

COMMENTS:

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:

CAL-DHS CERTIFICATE # 1555

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**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
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PROJECT: **603445-100**

MATRIX: SOIL  
 SAMPLING DATE: 03/29/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17  
 DATE EXTRACTED: 04/03/17  
 DATE ANALYZED: 04/03&04/17  
 DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-14a-0.5**

LAB I.D.: 170330-37

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
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PROJECT: **603445-100**

MATRIX: SOIL  
 SAMPLING DATE: 03/29/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17  
 DATE EXTRACTED: 04/03/17  
 DATE ANALYZED: 04/03&04/17  
 DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-14a-1.0**

LAB I.D.: 170330-38

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



LABORATORY REPORT

CUSTOMER: Leighton & Associates, Inc.  
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 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445-100

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE EXTRACTED: 04/03/17

DATE ANALYZED: 04/03&04/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: RR-12-0.5

LAB I.D.: 170330-39

Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

COMMENTS:

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
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 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE EXTRACTED: 04/03/17

DATE ANALYZED: 04/03&04/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-12-1.0**

LAB I.D.: 170330-40

Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

COMMENTS:

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



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PROJECT: 603445-100

MATRIX: SOIL

SAMPLING DATE: 03/29/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17

DATE EXTRACTED: 04/03/17

DATE ANALYZED: 04/03&04/17

DATE REPORTED: 04/07/17

SAMPLE I.D.: RR-12-2.5

LAB I.D.: 170330-41

Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

Table with 5 columns: PARAMETER, SAMPLE RESULT, PQL, MDL, DF. Lists various pesticides and PCBs with their respective detection limits and dilution factors.

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
Actual Detection Limit = PQL X DF
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:
CAL-DHS CERTIFICATE # 1555

Handwritten signature

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
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 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL  
 SAMPLING DATE: 03/29/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17  
 DATE EXTRACTED: 04/03/17  
 DATE ANALYZED: 04/03&04/17  
 DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-12a-0.5**

LAB I.D.: 170330-42

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL  
 SAMPLING DATE: 03/29/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17  
 DATE EXTRACTED: 04/03/17  
 DATE ANALYZED: 04/04/17  
 DATE REPORTED: 04/07/17


SAMPLE I.D.: **RR-112-0.5** LAB I.D.: **170330-43**

**Organochlorine Pesticides & PCBs Analysis**  
 Method: EPA 8081A/8082  
 Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555

**LABORATORY REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL  
 SAMPLING DATE: 03/29/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17  
 DATE EXTRACTED: 04/03/17  
 DATE ANALYZED: 04/04/17  
 DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-112-1.0**

LAB I.D.: 170330-44

**Organochlorine Pesticides & PCBs Analysis**


Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL  
 SAMPLING DATE: 03/29/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17  
 DATE EXTRACTED: 04/03/17  
 DATE ANALYZED: 04/04/17  
 DATE REPORTED: 04/07/17

SAMPLE I.D.: **RR-112-2.5**

LAB I.D.: 170330-45

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



Enviro - Chem, Inc.

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

LABORATORY REPORT

CUSTOMER: Leighton & Associates, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445-100

MATRIX:SOIL
SAMPLING DATE:03/29/17
REPORT TO:MR. RICHARD ORR

DATE RECEIVED:03/30/17
DATE EXTRACTED:04/03/17
DATE ANALYZED:04/04/17
DATE REPORTED:04/07/17

SAMPLE I.D.: RR-112a-0.5

LAB I.D.: 170330-46

Organochlorine Pesticides & PCBs Analysis
Method: EPA 8081A/8082
Unit: mg/Kg = Milligram per Kilogram = PPM

Table with 5 columns: PARAMETER, SAMPLE RESULT, PQL, MDL, DF. Lists various pesticides and PCBs with their respective results and limits.

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
Actual Detection Limit = PQL X DF
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:
CAL-DHS CERTIFICATE # 1555

Handwritten signature and line.

Enviro - Chem, Inc.

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

METHOD BLANK REPORT

CUSTOMER: Leighton & Associates, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445-100

MATRIX:SOIL

SAMPLING DATE:03/29/17

REPORT TO:MR. RICHARD ORR

DATE RECEIVED:03/30/17

DATE EXTRACTED:04/03/17

DATE ANALYZED:04/03&04/17

DATE REPORTED:04/07/17

METHOD BLANK REPORT FOR LAB I.D.:
170330-27 THROUGH -46

Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

Table with 5 columns: PARAMETER, SAMPLE RESULT, PQL, MDL, DF. Lists various pesticides and PCBs with their respective detection limits and results (mostly ND).

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
Actual Detection Limit = PQL X DF
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:
CAL-DHS CERTIFICATE # 1555

Handwritten signature and line.

# Enviro-Chem, Inc.

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

## EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)**

Date Analyzed: 4/3-4/2017

Unit: **mg/Kg (ppm)**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.: 170330-46 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00522	104%	0.00512	102%	2%	0-20%	70-130
Aldrin	0.000	0.00500	0.00540	108%	0.00563	113%	4%	0-20%	70-130
4,4-DDE	0.000	0.00500	0.00438	88%	0.00482	96%	10%	0-20%	70-130

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00545	109%	75-125
Aldrin	0.00500	0.00518	104%	75-125
4,4-DDE	0.00500	0.00481	96%	75-125
Dieldrin	0.00500	0.00578	116%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		MB	170330-27	170330-28	170330-29	170330-30	170330-31	170330-32	
Tetra-chloro-meta-xylene	50-150	128%	137%	135%	102%	115%	143%	139%	
Decachlorobiphenyl	50-150	81%	82%	75%	61%	62%	64%	66%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		170330-33	170330-34	170330-35	170330-36	170330-37	170330-38	170330-39	
Tetra-chloro-meta-xylene	50-150	139%	143%	148%	138%	132%	143%	138%	
Decachlorobiphenyl	50-150	68%	58%	61%	59%	60%	57%	56%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		170330-40	170330-41	170330-42	170330-43	170330-44	170330-45	170330-46	
Tetra-chloro-meta-xylene	50-150	129%	115%	132%	141%	141%	117%	144%	
Decachlorobiphenyl	50-150	74%	100%	68%	68%	55%	66%	88%	

S.R. = Sample Result

\* = Surrogate fail due to matrix interference (If Marked)


spk conc = Spike Concentration

Note: LCS, MS, MSD are in control therefore results are in control.

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

## QA/QC Report

**Analysis: EPA 8082 (PCB)**

Matrix: **Soil/Solid/Liquid/Sludge**

Date Analyzed: **4/4/2017**

Unit: **mg/Kg (PPM)**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

Spiked Sample Lab I.D.: **170330-27 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP % RPD	ACP %REC
PCB (1016+1260)	0.00	0.100	0.080	<b>80%</b>	0.085	<b>85%</b>	<b>7%</b>	<b>0-20%</b>	<b>70-130</b>

**LCS STD RECOVERY:**

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.101	<b>101%</b>	<b>75-125</b>

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

### LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: WATER  
 SAMPLING DATE: 03/29/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 03/30/17  
 DATE EXTRACTED: 03/30/17  
 DATE ANALYZED: 04/04/17  
 DATE REPORTED: 04/07/17

SAMPLE I.D.: **200-6**

LAB I.D.: 170330-47

#### Organochlorine Pesticides Analysis


Method: EPA 8081A

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1
PCB-1016	ND	1.00	0.50	1
PCB-1221	ND	1.00	0.50	1
PCB-1232	ND	1.00	0.50	1
PCB-1242	ND	1.00	0.50	1
PCB-1248	ND	1.00	0.50	1
PCB-1254	ND	1.00	0.50	1
PCB-1260	ND	1.00	0.50	1

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555

**METHOD BLANK REPORT**

: Leighton & Associates, Inc.

10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730

Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445-100

DATE RECEIVED: 03/30/17

MATRIX: WATER

DATE EXTRACTED: 03/30/17

SAMPLING DATE: 03/29/17

DATE ANALYZED: 04/04/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/07/17

METHOD BLANK REPORT FOR LAB I.D.: 170330-47

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1
PCB-1016	ND	1.00	0.50	1
PCB-1221	ND	1.00	0.50	1
PCB-1232	ND	1.00	0.50	1
PCB-1242	ND	1.00	0.50	1
PCB-1248	ND	1.00	0.50	1
PCB-1254	ND	1.00	0.50	1
PCB-1260	ND	1.00	0.50	1

COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

# EPA 608 QA/QC Report

↳ (+) 8081A

Matrix: Water/Liquid

Date Analyzed: 4/4/2017

Unit: ug/L

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.: 170330-47 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0	0.500	0.512	102%	0.505	101%	1%	0-20%	70-130
Aldrin	0	0.500	0.554	111%	0.546	109%	1%	0-20%	70-130
4,4-DDE	0	0.500	0.551	110%	0.560	112%	2%	0-20%	70-130

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.500	0.478	96%	75-125
Aldrin	0.500	0.517	103%	75-125
4,4-DDE	0.500	0.553	111%	75-125
Dieldrin	0.500	0.583	117%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		M-BLK	170330-47	170330-128					
Tetra-chloro-meta-xylene	50-150	137%	137%	135%					
Decachlorobipneyl	50-150	80%	68%	67%					

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene									
Decachlorobipneyl									

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

\* = Surrogate fail due to matrix interference

Note: LCS, MS, MSD are in control therefore results are in control.

Final Reviewer: 



Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

## QA/QC Report

Analysis: EPA 608 (PCB)

↳ ⊕ 8082

Matrix: **Water/Liquid**

Date Analyzed: **4/4/2017**

Unit: **ug/L (PPB)**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **170330-47 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP % RPD	ACP %REC
PCB (1016+1260)	0	10.0	9.37	<b>94%</b>	8.89	<b>89%</b>	<b>5%</b>	0-20%	70-130

LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	10.0	10.0	<b>100%</b>	75-125

S.R. = Sample Result

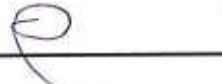
spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
		DATE	TIME									
AL-125-0.5	H0330-3	3/29/17	0909	Soil	1	ice	X					
AL-125a-0.5	-4		0923				X					
AL-125-1.0	-5		0919				X					
AL-125a-1.0	-6		0921				X					
AL-127-0.5	-7		0942				X	<del>X</del>				Run STLC
AL-127a-0.5	-8		0946				X	<del>X</del>				Run STLC
AL-1127-0.5	-9		0948				X	X				
AL-1127a-0.5	-10		0949				X	X				
AL-127-1.0	-11		0942				X	X				
AL-127a-1.0	-12		0944				X	X				
AL-1127-1.0	-13		1000				X	X				
AL-1127a-1.0	-14		0950				X	X				
AL-129-0.5	-15		1020				X					
<del>AL-129a-0.5</del>	-16		1024				X					
AL-129-1.0	-17		1026				X					

6010 Pb  
 STLC Pb  
 CA WET

Misc./PO#

Company Name:

Leighton Consulting

Project Contact:

Richard Orr

Sampler's Signature:

*[Signature]*

Address: 10532 Acacia St Ste B6

Tel: (909) 484-2205

Project Name/ID:

603445-100

City/State/Zip: Rancho Cucamonga, CA 91730

Fax: (909) 484-2170

Relinquished by:

*[Signature]*

Received by:

Leighton Orr

Date & Time:

8:50 3/29/17

Instructions for Sample Storage After Analysis:

Relinquished by:

*[Signature]*

Received by:

WOP

Date & Time:

3/30/17 9:30

Dispose of  Return to Client  Store (30 Days)

Relinquished by:

Received by:

Date & Time:

Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/29/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
AL-129a-1.0	130370-18	3/29/17	1030	Soil	1		Ice	X				
AL-132-0.5	-19		1043					X				
AL-132-1.0	-20		1051					X				
AL-132-2.5	-21		1058					X				
AL-132-5.0	-22		1108					X				
AL-138-0.5	-23		1216					X				
AL-138a-0.5	-24		1225					X				
AL-138-1.0	-25		1232					X				
AL-138a-1.0	-26		1234					X				
RR-11-0.5	-27		1319						X	X	X	X
RR-11a-0.5	-28		1327						X	X	X	X
RR-11-1.0	-29		1333						X	X	X	X
RR-11a-1.0	-30		1334						X	X	X	X
RR-13-0.5	-31		1344						X	X	X	X
RR-13-1.0	-32		1349						X	X	X	X

6010B Pb  
 6010B / 7471A  
 8091A / 8082  
 8015 acid  
 8310

Misc./PO#

Company Name:

Lexington Consulting

Project Contact:

Richard Orr

Sampler's Signature:

*[Signature]*

Address:

10532 Acacia St Ste B6

Tel:

(909) 484-2205

Project Name/ID:

603445-100

City/State/Zip:

Rancho Cucamonga, CA 91730

Fax:

(909) 484-2170

Relinquished by:

*[Signature]*  
 Richard Orr

Received by:

*[Signature]*  
 WJP

Date & Time:

3/29/17  
 8:59  
 3/30/17  
 9:30

Instructions for Sample Storage After Analysis:

Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 ~~1 Week~~ (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
		DATE	TIME									
RR-13-2.5	170330-33	3/20/17	1358	Soil	1		ice	X	X	X	X	
RR-13a-0.5	-34		1400					X	X	X	X	
RR-14-0.5	-35		1444					X	X	X	X	
RR-14-1.0	-36		1454					X	X	X	X	
RR-14a-0.5	-37		1445					X	X	X	X	
RR-14a-1.0	-38		1453					X	X	X	X	
RR-12-0.5	-39		1417					X	X	X	X	
RR-12-1.0	-40		1425					X	X	X	X	
<del>RR-12-0.5</del> RR-12-2.5	-41		1435					X	X	X	X	
RR-12a-0.5	-42		1438					X	X	X	X	
RR-112-0.5	-43		1418					X	X	X	X	
RR-112-1.0	-44		1425					X	X	X	X	
RR-112-2.5	-45		1431					X	X	X	X	
RR-112a-0.5	-46		1439					X	X	X	X	
200-6	-47		1555	Water	3		HNO <sub>3</sub> ice	X	X	X	X	

6010B/7471A  
 8081A/8082  
 8015 acid  
 8310

Misc./PO#

Company Name: Leighton Consulting  
 Address: 10532 Acacia St Ste B6  
 City/State/Zip: Rancho Cucamonga, CA 91730

Project Contact: Richard Orr  
 Tel: (909) 484-2205  
 Fax: (909) 484-2170

Sampler's Signature: [Signature]  
 Project Name/ID: 603445-100

Relinquished by: [Signature]  
 Relinquished by: [Signature]  
 Relinquished by:

Received by: [Signature]  
 Received by: [Signature]  
 Received by:

Date & Time: 3/20/17 8:50  
 Date & Time: 3/30/17 9:30  
 Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/29/17

WHITE WITH SAMPLE • YELLOW TO CLIENT



## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Number of Pages 9

Date Received 03/30/2017

Date Reported 04/06/2017

Telephone: (909)590-5905  
Attention: Curtis Desilets

Job Number	Order Date	Client
87143	03/30/2017	ENVIRO

Project ID: 603445-100  
Project Name: (170330-3~47)

Enclosed please find results of analyses of 20 soil and 1 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

Misc./PO#

87143

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS			
		DATE	TIME																		
RR-11-0.5 (170330-27)	87143.01	03/29/17	13:19	Soil	1		None	X													
RR-11a-0.5 (170330-28)	87143.02	03/29/17	13:27	Soil	1		None	X													
RR-11-1.0 (170330-29)	87143.03	03/29/17	13:33	Soil	1		None	X													
RR-11a-1.0 (170330-30)	87143.04	03/29/17	13:34	Soil	1		None	X													
RR-13-0.5 (170330-31)	87143.05	03/29/17	13:44	Soil	1		None	X													
RR-13-1.0 (170330-32)	87143.06	03/29/17	13:49	Soil	1		None	X													
RR-13-2.5 (170330-33)	87143.07	03/29/17	13:58	Soil	1		None	X													
RR-13a-0.5 (170330-34)	87143.08	03/29/17	14:00	Soil	1		None	X													
RR-14-0.5 (170330-35)	87143.09	03/29/17	14:44	Soil	1		None	X													
RR-14-1.0 (170330-36)	87143.10	03/29/17	14:54	Soil	1		None	X													
RR-14a-0.5 (170330-37)	87143.11	03/29/17	14:45	Soil	1		None	X													
RR-14a-1.0 (170330-38)	87143.12	03/29/17	14:53	Soil	1		None	X													
RR-12-0.5 (170330-39)	87143.13	03/29/17	14:17	Soil	1		None	X													
RR-12-1.0 (170330-40)	87143.14	03/29/17	14:25	Soil	1		None	X													
RR-12-2.5 (170330-41)	87143.15	03/29/17	14:35	Soil	1		None	X													

Company Name: **Enviro-Chem, Inc** Project Contact: **Curtis Desilets** Sampler's Signature: *CF*

Address: **1214 E. Lexington Avenue** Tel: **909-590-5905** Project Name/ID: **603445-100 (170330-3~47)**  
 City/State/Zip: **Pomona, CA 91766** Fax/Email: **envirocheminc@gmail.com**

Relinquished by: <i>Paul (Curtis Desilets)</i>	Received by: <i>[Signature]</i>	Date & Time: <i>3-30-17 12:15</i>	Instructions for Sample Storage After Analysis: <input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days) <input type="radio"/> Other:
Relinquished by: _____	Received by: _____	Date & Time: _____	
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: <i>3-30-17 16:00</i>	

**CHAIN OF CUSTODY RECORD**

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)
- Other:

Misc./PO#

87143

SAMPLE ID	LAB ID	SAMPLING		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS					
		DATE	TIME																				
RR-12-2.5 (170330-41)	87143-15	03/29/17	14:35	Soil	1		None	X															
RR-12a-0.5 (170330-42)	87143-16	03/29/17	14:38	Soil	1		None	X															
RR-112-0.5 (170330-43)	87143-18	03/29/17	14:18	Soil	1		None	X															
RR-112-1.0 (170330-44)	87143-18	03/29/17	14:25	Soil	1		None	X															
RR-112-2.5 (170330-45)	87143-19	03/29/17	14:31	Soil	1		None	X															
RR-112a-0.5 (170330-46)	87143-20	03/29/17	14:39	Soil	1		None	X															
200-6 (170330-47)	<del>87143-22</del> (Ak)	03/29/17	15:55	<del>Soil</del> WATER (K)	1		None	X															87143-21

Company Name: <b>Enviro-Chem, Inc</b>		Project Contact: <b>Curtis Desilets</b>		Sampler's Signature: 	
Address: <b>1214 E. Lexington Avenue</b>		Tel: <b>909-590-5905</b>		Project Name/ID: <b>603445-100 (170330-3~47)</b>	
City/State/Zip: <b>Pomona, CA 91766</b>		Fax/Email: <b>envirocheminc@gmail.com</b>			
Relinquished by: 	Received by: 	Date & Time: <b>3-30-17 12:15</b>	Instructions for Sample Storage After Analysis:		
Relinquished by:	Received by:	Date & Time:	<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days)		
Relinquished by: 	Received by: 	Date & Time: <b>3-30-17 1600</b>	<input type="checkbox"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 3/28/17

WHITE WITH SAMPLE • YELLOW TO CLIENT



# American Environmental Testing Laboratory Inc.

2834 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## COOLER RECEIPT FORM

Client Name: <u>Enviro Chem</u>			
Project Name:			
AETL Job Number: <u>87143</u>			
Date Received: <u>03/30/17</u>		Received by: <u>Andin</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler ( <u>1</u> ) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3.3</u> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<u>1</u> None, <u>HNO<sub>3</sub></u> , <u>NaOH</u> , <u>ZnOAc</u> , <u>HCl</u> , <u>Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub></u> , <u>MeOH</u>			
Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>Y</u>		
2. Are the Sample labels legible?	<u>Y</u>		
3. Do samples match the COC?	<u>Y</u>		
4. Are the required analyses clear?	<u>Y</u>		
5. Is there enough samples for required analysis?	<u>Y</u>		
6. Are samples sealed with evidence tape?		<u>Y</u>	
7. Are sample containers in good condition?	<u>Y</u>		
8. Are samples preserved?	<u>Y</u>		
9. Are samples preserved properly for the intended analysis?	<u>Y</u>		
10. Are the VOAs free of headspace?	<u>N/A</u>		
11. Are the jars free of headspace?	<u>Y</u>		

Explain all "No" answers for above questions:

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# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Page: 1 A

## Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Project ID: 603445-100  
Date Received 03/30/2017  
Date Reported 04/06/2017

Telephone: (909) 590-5905  
Attention: Curtis Desilets

Job Number	Order Date	Client
87143	03/30/2017	ENVIRO

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 21 samples with the following specification on 03/30/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
87143.21	200-6(170330-47)	03/29/2017	Aqueous	1
	<i>Method ^ Submethod</i>	<i>Req Date</i>	<i>Priority</i>	<i>TAT</i>
	8310	04/06/2017	2	Normal
	<i>Units</i>			ug/L
Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
87143.01	RR-11-0.5(170330-2 7)	03/29/2017	Soil	1
87143.02	RR-11a-0.5(170330- 28)	03/29/2017	Soil	1
87143.03	RR-11-1.0(170330-2 9)	03/29/2017	Soil	1
87143.04	RR-11a-1.0(170330- 30)	03/29/2017	Soil	1
87143.05	RR-13-0.5(170330-3 1)	03/29/2017	Soil	1
87143.06	RR-13-1.0(170330-3 2)	03/29/2017	Soil	1
87143.07	RR-13-2.5(170330-3 3)	03/29/2017	Soil	1
87143.08	RR-13a-0.5(170330- 34)	03/29/2017	Soil	1
87143.09	RR-14-0.5(170330-3 5)	03/29/2017	Soil	1
87143.10	RR-14-1.0(170330-3 6)	03/29/2017	Soil	1
87143.11	RR-14a-0.5(170330- 37)	03/29/2017	Soil	1

Continued



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

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Page: 1 B

### Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Project ID: 603445-100  
Date Received 03/30/2017  
Date Reported 04/06/2017

Telephone: (909) 590-5905  
Attention: Curtis Desilets

Job Number	Order Date	Client
87143	03/30/2017	ENVIRO

## CERTIFICATE OF ANALYSIS

### CASE NARRATIVE

87143.11	RR-14a-0.5(170330- 03/29/2017 37)	Soil	1
87143.12	RR-14a-1.0(170330- 03/29/2017 38)	Soil	1
87143.13	RR-12-0.5(170330-3 03/29/2017 9)	Soil	1
87143.14	RR-12-1.0(170330-4 03/29/2017 0)	Soil	1
87143.15	RR-12-2.5(170330-4 03/29/2017 1)	Soil	1
87143.16	RR-12a-0.5(170330- 03/29/2017 42)	Soil	1
87143.17	RR-112-0.5(170330- 03/29/2017 43)	Soil	1
87143.18	RR-112-1.0(170330- 03/29/2017 44)	Soil	1
87143.19	RR-112-2.5(170330- 03/29/2017 45)	Soil	1
87143.20	RR-112a-0.5(170330 03/29/2017 -46)	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	04/06/2017	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
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## ANALYTICAL RESULTS

### Ordered By

Enviro-Chem Laboratories  
 1214 E. Lexington Avenue  
 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 2

Project ID: 603445-100

Project Name: (170330-3~47)

AETL Job Number	Submitted	Client
87143	03/30/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 033117IB1

Our Lab I.D.		Method Blank	87143.01	87143.02	87143.03	87143.04	
Client Sample I.D.			RR-11-0.5(17 0330-27)	RR-11a-0.5(1 70330-28)	RR-11-1.0(17 0330-29)	RR-11a-1.0(1 70330-30)	
Date Sampled			03/29/2017	03/29/2017	03/29/2017	03/29/2017	
Date Prepared		03/31/2017	03/31/2017	03/31/2017	03/31/2017	03/31/2017	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		04/03/2017	04/03/2017	04/03/2017	04/03/2017	04/03/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	ND	0.0734	0.159	0.0394
Benzo(a)pyrene	0.010	0.020	ND	0.0128J	0.167	0.413	0.103
Benzo(b)fluoranthene	0.010	0.020	ND	0.0113J	0.155	0.232	0.0701
Benzo(k)fluoranthene	0.010	0.020	ND	ND	0.0748	0.179	0.0454
Chrysene	0.010	0.020	ND	ND	0.108	0.195	0.0527
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.013J	0.139	0.360	0.0938
Acenaphthene	0.010	0.020	ND	ND	ND	0.0280	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	0.0241	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	0.0117J	0.141	0.325	0.0857
Fluoranthene	0.010	0.020	ND	ND	0.0995	0.129	0.0335
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	ND	0.0275	0.0434	0.0111J
Pyrene	0.010	0.020	ND	ND	0.103	0.204	0.0316
Our Lab I.D.		Method Blank	87143.01	87143.02	87143.03	87143.04	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125	109	109	105	106	109	



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### Ordered By

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Attn: Curtis Desilets

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Project ID: 603445-100

Project Name: (170330-3~47)

AETL Job Number	Submitted	Client
87143	03/30/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 033117IB1

Our Lab I.D.		87143.05	87143.06	87143.07	87143.08	87143.09	
Client Sample I.D.		RR-13-0.5(17 0330-31)	RR-13-1.0(17 0330-32)	RR-13-2.5(17 0330-33)	RR-13a-0.5(1 70330-34)	RR-14-0.5(17 0330-35)	
Date Sampled		03/29/2017	03/29/2017	03/29/2017	03/29/2017	03/29/2017	
Date Prepared		03/31/2017	03/31/2017	03/31/2017	03/31/2017	03/31/2017	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		04/03/2017	04/03/2017	04/03/2017	04/03/2017	04/03/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	0.0344	0.0124J	ND	0.0308	ND
Benzo(a)pyrene	0.010	0.020	0.0929	0.0256	ND	0.0346	ND
Benzo(b)fluoranthene	0.010	0.020	0.0408	0.0165J	ND	0.0758	ND
Benzo(k)fluoranthene	0.010	0.020	0.0256	0.0109J	ND	0.0295	ND
Chrysene	0.010	0.020	0.0451	0.0117J	ND	0.0272	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	0.0898	0.0252	ND	0.0695	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	0.0657	0.0105J	ND	0.0685	ND
Fluoranthene	0.010	0.020	0.0245	0.0100J	ND	0.0388	ND
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	ND	ND	0.0216	ND
Pyrene	0.010	0.020	0.0222	0.0111J	ND	0.0376	ND
Our Lab I.D.		87143.05	87143.06	87143.07	87143.08	87143.09	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125	108	110	108	124	110	



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Project ID: 603445-100

Project Name: (170330-3~47)

AETL Job Number	Submitted	Client
87143	03/30/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 033117IB1

Our Lab I.D.			87143.10	87143.11	87143.12	87143.13	87143.14
Client Sample I.D.			RR-14-1.0(17 0330-36)	RR-14a-0.5(1 70330-37)	RR-14a-1.0(1 70330-38)	RR-12-0.5(17 0330-39)	RR-12-1.0(17 0330-40)
Date Sampled			03/29/2017	03/29/2017	03/29/2017	03/29/2017	03/29/2017
Date Prepared			03/31/2017	03/31/2017	03/31/2017	03/31/2017	03/31/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			04/03/2017	04/03/2017	04/03/2017	04/03/2017	04/03/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.010	0.020	ND	ND	ND	ND	ND
Chrysene	0.010	0.020	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	ND	ND	ND
Fluoranthene	0.010	0.020	ND	ND	ND	ND	ND
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	ND	ND	ND	ND
Pyrene	0.010	0.020	ND	ND	ND	ND	ND
Our Lab I.D.			87143.10	87143.11	87143.12	87143.13	87143.14
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
p-Terphenyl-D14	75-125		112	111	115	116	110



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Project ID: 603445-100

Project Name: (170330-3~47)

AETL Job Number	Submitted	Client
87143	03/30/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 033117IB1

Our Lab I.D.			87143.15	87143.16	87143.17	87143.18	87143.19
Client Sample I.D.			RR-12-2.5(170330-41)	RR-12a-0.5(170330-42)	RR-112-0.5(170330-43)	RR-112-1.0(170330-44)	RR-112-2.5(170330-45)
Date Sampled			03/29/2017	03/29/2017	03/29/2017	03/29/2017	03/29/2017
Date Prepared			03/31/2017	03/31/2017	03/31/2017	03/31/2017	03/31/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			04/03/2017	04/03/2017	04/03/2017	04/04/2017	04/04/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.010	0.020	ND	ND	ND	ND	ND
Chrysene	0.010	0.020	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	ND	ND	ND
Fluoranthene	0.010	0.020	ND	ND	ND	ND	ND
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	ND	ND	ND	ND
Pyrene	0.010	0.020	ND	ND	ND	ND	ND
Our Lab I.D.			87143.15	87143.16	87143.17	87143.18	87143.19
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
p-Terphenyl-D14	75-125		113	111	110	115	107



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Project ID: 603445-100

Project Name: (170330-3~47)

AETL Job Number	Submitted	Client
87143	03/30/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 033117IB1

<b>Our Lab I.D.</b>			<b>87143.20</b>			
Client Sample I.D.			RR-112a-0.5(170330-46)			
Date Sampled			03/29/2017			
Date Prepared			03/31/2017			
Preparation Method			3550B			
Date Analyzed			04/04/2017			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>			
Benzo(a)anthracene	0.010	0.020	ND			
Benzo(a)pyrene	0.010	0.020	ND			
Benzo(b)fluoranthene	0.010	0.020	ND			
Benzo(k)fluoranthene	0.010	0.020	ND			
Chrysene	0.010	0.020	ND			
Dibenzo(a,h)anthracene	0.010	0.020	ND			
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND			
Acenaphthene	0.010	0.020	ND			
Acenaphthylene	0.010	0.020	ND			
Anthracene	0.010	0.020	ND			
Benzo(g,h,i)perylene	0.010	0.020	ND			
Fluoranthene	0.010	0.020	ND			
Fluorene	0.010	0.020	ND			
Naphthalene	0.010	0.020	ND			
Phenanthrene	0.010	0.020	ND			
Pyrene	0.010	0.020	ND			
<b>Our Lab I.D.</b>			<b>87143.20</b>			
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>			
p-Terphenyl-D14	75-125		117			



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Project ID: 603445-100

Project Name: (170330-3~47)

AETL Job Number	Submitted	Client
87143	03/30/2017	ENVIRO

Method: 8310, Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 040317IB1

<b>Our Lab I.D.</b>			Method Blank	<b>87143.21</b>		
Client Sample I.D.				200-6(170330-47)		
Date Sampled				03/29/2017		
Date Prepared			04/03/2017	04/03/2017		
Preparation Method			3510C	3510C		
Date Analyzed			04/04/2017	04/04/2017		
Matrix			Aqueous	Aqueous		
Units			ug/L	ug/L		
Dilution Factor			1	1		
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>		
Benzo(a)anthracene	0.10	0.20	ND	ND		
Benzo(a)pyrene	0.10	0.20	ND	ND		
Benzo(b)fluoranthene	0.10	0.20	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	ND	ND		
Chrysene	0.10	0.20	ND	ND		
Dibenzo(a,h)anthracene	0.10	0.20	ND	ND		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Acenaphthene	0.10	0.20	ND	ND		
Acenaphthylene	0.10	0.20	ND	ND		
Anthracene	0.10	0.20	ND	ND		
Benzo(g,h,i)perylene	0.10	0.20	ND	ND		
Fluoranthene	0.10	0.20	ND	ND		
Fluorene	0.10	0.20	ND	ND		
Naphthalene	0.10	0.20	ND	ND		
Phenanthrene	0.10	0.20	ND	ND		
Pyrene	0.10	0.20	ND	ND		
<b>Our Lab I.D.</b>			Method Blank	<b>87143.21</b>		
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>		
p-Terphenyl-D14	75-125		123	125		





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## QUALITY CONTROL RESULTS

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Project ID: 603445-100

Project Name: (170330-3~47)

AETL Job Number	Submitted	Client
87143	03/30/2017	ENVIRO

Method: 8310, Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 040317IB1; Dup or Spiked Sample: 0403; LCS: Clean Water; QC Prepared: 04/03/2017; QC Analyzed: 04/04/2017;  
 Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.500	0.456	91.2	0.500	0.475	95.0	4.1	75-125	<20
Benzo(a)pyrene	0.00	0.500	0.432	86.4	0.500	0.437	87.4	1.2	75-125	<20
Naphthalene	0.00	5.00	3.91	78.2	5.00	4.16	83.2	6.2	70-120	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	4.00	4.72	118	4.00	4.84	121	2.5	75-125	<20

QC Batch No: 040317IB1; Dup or Spiked Sample: 0403; LCS: Clean Water; QC Prepared: 04/03/2017; QC Analyzed: 04/04/2017;  
 Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.500	0.466	93.2	75-125						
Benzo(a)pyrene	0.500	0.430	86.0	75-125						
Naphthalene	5.00	4.02	80.4	70-120						
<b>LCS</b>										
Acenaphthene	5.00	4.46	89.2	75-125						
Acenaphthylene	10.0	8.75	87.5	75-125						
Anthracene	0.500	0.469	93.8	75-125						
Benzo(b)fluoranthene	1.00	0.971	97.1	75-125						
Benzo(g,h,i)perylene	1.00	1.02	102	75-125						
Benzo(k)fluoranthene	0.500	0.505	101	75-125						
Chrysene	0.500	0.497	99.4	75-125						
Dibenzo(a,h)anthracene	1.00	0.954	95.4	75-125						
Fluoranthene	1.00	0.901	90.1	75-125						
Fluorene	1.00	0.895	89.5	75-125						
Indeno(1,2,3-cd)pyrene	0.500	0.413	82.6	75-125						
Phenanthrene	0.500	0.463	92.6	75-125						
Pyrene	0.500	0.525	105	60-110						
<b>Surrogates</b>										
p-Terphenyl-D14	4.00	4.64	116	75-125						



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Project ID: 603445-100

Project Name: (170330-3~47)

AETL Job Number	Submitted	Client
87143	03/30/2017	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 033117IB1; Dup or Spiked Sample: 87143.17; LCS: Clean Sand; QC Prepared: 03/31/2017; QC Analyzed: 04/03/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0432	86.4	0.0500	0.0436	87.2	<1	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0423	84.5	0.0500	0.0436	87.1	3.0	75-125	<20
Naphthalene	0.00	0.500	0.487	97.4	0.500	0.476	95.2	2.3	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.448	112	0.400	0.460	115	2.6	75-125	<20

QC Batch No: 033117IB1; Dup or Spiked Sample: 87143.17; LCS: Clean Sand; QC Prepared: 03/31/2017; QC Analyzed: 04/03/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzo(a)anthracene	0.0500	0.0440	88.0	0.0500	0.0450	90.0	2.2	75-125	<20
Benzo(a)pyrene	0.0500	0.0443	88.6	0.0500	0.0440	88.0	<1	75-125	<20
Naphthalene	0.500	0.471	94.2	0.500	0.491	98.2	4.2	75-125	<20
<b>LCS</b>									
Acenaphthene	0.500	0.443	88.6	0.500	0.442	88.4	<1	75-125	<20
Acenaphthylene	1.00	0.927	92.7	1.00	0.965	96.5	4.0	75-125	<20
Anthracene	0.0500	0.0515	103	0.0500	0.0525	105	1.9	75-125	<20
Benzo(b)fluoranthene	0.100	0.0942	94.2	0.100	0.0960	96.0	1.9	75-125	<20
Benzo(g,h,i)perylene	0.100	0.0989	98.9	0.100	0.101	101	2.1	75-125	<20
Benzo(k)fluoranthene	0.0500	0.0520	104	0.0500	0.0510	102	1.9	75-125	<20
Chrysene	0.0500	0.0465	93.0	0.0500	0.0472	94.4	1.5	75-125	<20
Dibenzo(a,h)anthracene	0.100	0.0916	91.6	0.100	0.0948	94.8	3.4	75-125	<20
Fluoranthene	0.100	0.0886	88.6	0.100	0.0903	90.3	1.9	75-125	<20
Fluorene	0.100	0.0888	88.8	0.100	0.0818	81.8	8.2	75-125	<20
Indeno(1,2,3-cd)pyrene	0.0500	0.0434	86.8	0.0500	0.0431	86.2	<1	75-125	<20
Phenanthrene	0.0500	0.0450	90.0	0.0500	0.0455	91.0	1.1	75-125	<20
Pyrene	0.0500	0.0478	95.6	0.0500	0.0481	96.2	<1	75-125	<20
<b>Surrogates</b>									
p-Terphenyl-D14	0.400	0.452	113	0.400	0.452	113	<1	75-125	<20



## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • [www.aetlab.com](http://www.aetlab.com)

### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---

**Enviro - Chem, Inc.**

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

Date: April 21, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445-100**  
Lab I.D.: **170330-3 through -47**

Dear Mr. Orr:

The **additional STLC-Pb results** for the soil and water samples, received by our lab on March 30, 2017, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

### LABORATORY REPORT

CUSTOMER: Leighton Consulting, Inc.  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
PROJECT: 603445-100


MATRIX: SOIL DATE RECEIVED: 03/30/17  
SAMPLING DATE: 03/29/17 DATE ANALYZED: 04/21/17  
REPORT TO: MR. RICHARD ORR DATE REPORTED: 04/21/17

EPA 6010B FOR STLC-LEAD  
UNIT: mg/L IN THE STLC LEACHATE

SAMPLE I.D.	LAB I.D.	STLC-LEAD RESULT	DF
<u>AL-129-0.5</u>	170330-15	0.464	1
<u>AL-138-1.0</u>	170330-25	3.66	1
<u>AL-138a-1.0</u>	170330-26	3.24	1
<u>Method Blank</u>	---	ND	1
	MDL	0.02	
	PQL	0.05	

COMMENTS:

DF = Dilution Factor  
MDL = Method Detection Limit  
PQL = Practical Quantitation Limit  
J = Trace Concentration between MDL and PQL  
Actual Detection Limit = PQL X DF  
ND = Below the Actual Detection Limit or non-detected  
STLC = Soluble Threshold Limit Concentration  
mg/L = Milligram Per Liter = PPM  
\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

## QA/QC for Metals Analysis -STLC

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/21/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Lead(Pb)	170405-63	5.00	101	PASS	4.89	5.00	9.81	98%	9.83	99%	0%

ANALYSIS DATE:

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Lead(Pb)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**Subject:** Fwd: Additional STLC analyses  
**From:** "Curtis B. Desilets" <curt.envirocheminc@gmail.com>  
**Date:** 4/19/2017 3:12 PM  
**To:** Jessica Lin <envirocheminc@gmail.com>

Please start...

----- Forwarded message -----

**From:** Zachary Freeman <zfreeman@leightongroup.com>  
**Date:** Wed, Apr 19, 2017 at 2:59 PM  
**Subject:** Additional STLC analyses  
**To:** "jessicaylin628@gmail.com" <jessicaylin628@gmail.com>  
**Cc:** "Curtis B. Desilets" <curt.envirocheminc@gmail.com>

Hi Jessica and Curtis,

I have some additional WET citric acid lead analyses I need run. Lab ID numbers: 170405-63 (AL-37-0.5), 170405-44 (AL-58-1.0), 170405-45 (AL-58a-0.5), 170330-15 (AL-129-0.5), 170330-25 (AL-138-1.0), and 170330-26 (AL-138a-1.0). I need these on 48-hour turn. If any of the analyses exceed the 5mg/l limit please run those samples for WET-DI lead as well.

Thanks,

**Zach Freeman, PG**

Project Geologist

10532 Acacia Street Suite B-6

Rancho Cucamonga, CA 91786

951-743-2642 Cellular

909-484-2205 Office

**Leighton**

Solutions You Can Build On



**Enviro - Chem, Inc.**

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

Date: April 5, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445-100**  
Lab I.D.: **170331-3 through -39**

Dear Mr. Orr:

The **analytical results** for the soil and water samples, received by our lab on March 31, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445-100

MATRIX: SOIL

DATE RECEIVED: 03/31/17

SAMPLING DATE: 03/30/17

DATE ANALYZED: 04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/05/17


EPA 6010B FOR TTLC-LEAD; PAGE 1 OF 2  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-131-0.5	170331-3	28.6	1
AL-131-1.0	170331-4	13.3	1
AL-131-2.5	170331-5	27.3	1
AL-119-0.5	170331-6	3.63	1
AL-119-1.0	170331-7	4.15	1
AL-119-2.5	170331-8	2.84	1
AL-119a-0.5	170331-9	4.38	1
AL-110-0.5	170331-10	6.63	1
AL-110-1.0	170331-11	6.73	1
AL-110-2.5	170331-12	7.18	1
AL-108-0.5	170331-13	5.17	1
AL-108-1.0	170331-14	7.06	1
AL-108-2.5	170331-15	5.27	1
AL-108-5.0	170331-16	4.73	1
AL-106-0.5	170331-17	19.4	1
AL-106-1.0	170331-18	16.8	1
Method Blank	---	ND	1

MDL 0.192  
 PQL 0.50

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 03/31/17

SAMPLING DATE: 03/30/17

DATE ANALYZED: 04/03/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/05/17

EPA 6010B FOR TTLC-LEAD; PAGE 2 OF 2

UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-106a-0.5	170331-19	9.49	1
AL-106a-1.0	170331-20	16.5	1
AL-102-0.5	170331-21	9.23	1
AL-102-1.0	170331-22	3.04	1
AL-102a-0.5	170331-23	2.23	1
AL-102a-1.0	170331-24	1.57	1
AL-104-0.5	170331-25	6.06	1
AL-104-1.0	170331-26	4.97	1
AL-104a-0.5	170331-27	12.1	1
AL-104a-1.0	170331-28	13.1	1
AL-99-0.5	170331-29	13.9	1
AL-99-1.0	170331-30	10.8	1
AL-99-2.5	170331-31	6.29	1
AL-99-3.0	170331-32	3.40	1
AL-97-0.5	170331-33	12.4	1
AL-97-1.0	170331-34	5.28	1
AL-97a-0.5	170331-35	11.5	1
AL-97a-1.0	170331-36	5.09	1
AL-110-5.0	170331-37	7.16	1
AL-131-4.0	170331-38	19.3	1
Method Blank	---	ND	1

MDL 0.192

PQL 0.50

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

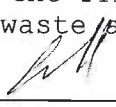
TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/3/2017

Unit : mg/Kg(ppm)


Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170331-28	50.0	104	PASS	1.55	50.0	48.0	93%	48.8	95%	2%
Chromium(Cr)	170331-28	50.0	108	PASS	17.4	50.0	63.2	92%	64.0	93%	2%
Lead(Pb)	170331-28	50.0	103	PASS	13.1	50.0	52.1	78%	52.4	79%	1%

ANALYSIS DATE. : 3/30/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170330-46	0.125	98	PASS	0	0.125	0.111	89%	0.108	86%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: 

FINAL REVIEWER: 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control



**METHOD BLANK REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: WATER

DATE RECEIVED: 03/31/17

SAMPLING DATE: 03/30/17

DATE ANALYZED: 04/04/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/05/17

-----  
**METHOD BLANK REPORT FOR LAB I.D.: 170331-39**  
-----

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

<b>ELEMENT ANALYZED</b>	<b>SAMPLE RESULT</b>	<b>PQL</b>	<b>MDL</b>	<b>DF</b>	<b>EPA METHOD</b>
Lead (Pb)	ND	0.01	0.004	1	200.7

-----  
**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: \_\_\_\_\_

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for TLLC Metals Analysis --WATER MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/4/2017

Unit : *mg/L(ppm)*

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Lead(Pb)	170330-47	1.00	107	PASS	0	1.00	1.01	101%	0.999	100%	1%
Silver(Ag)	170330-47	0.10	104	PASS	0	0.10	0.097	97%	0.096	96%	1%
Zinc(Zn)	170330-47	1.00	108	PASS	0.087	1.00	1.10	101%	1.08	99%	2%

ANALYSIS DATE. : 3/30/2017

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170329-111	0.00250	92	PASS	0	0.00250	0.00220	88%	0.00210	84%	5%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Lead(Pb)	PASS	PASS	PASS	PASS
Silver(Ag)	PASS	PASS	PASS	PASS
Zinc(Zn)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 ~~1 Week~~ (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS	
		DATE	TIME										
AL-131-0.5	1033-3	3/30/17	0912	Soil		40°F	ice	X					
AL-131-1.0	-4		0913					X					
AL-131-2.5	-5		0921					X					
AL-119-0.5	-6		0946					X					
AL-119-1.0	-7		0950					X					
AL-119-2.5	-8		0956					X					
AL-119a-0.5	-9		1004					X					
AL-110-0.5	-10		1027					X					
AL-110-1.0	-11		1033					X					
AL-110-2.5	-12		1049					X					
AL-108-0.5	-13		1111					X					
AL-108-1.0	-14		1122					X					
AL-108-2.5	-15		1128					X					
AL-108-5.0	-16		1131					X					
AL-106-0.5	-17		1145					X					

6010B P6

Misc./PO#

Company Name: Leighton Consulting  
 Address: 10532 Acacia St Ste 136  
 City/State/Zip: Rancho Cucamonga CA 91730

Project Contact: Richard Orr  
 Tel: (909) 484-2205  
 Fax: (909) 484-2170

Sampler's Signature: [Signature]  
 Project Name/ID: 603445-100

Relinquished by: [Signature]  
 Relinquished by: [Signature]  
 Relinquished by:

Received by: Richard Orr  
 Received by: [Signature]  
 Received by:

Date & Time: 3/31/17 8:30  
 Date & Time: 3/31/17 7:50  
 Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 3/30/17

WHITE WITH SAMPLE • YELLOW TO CLIENT



**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required								COMMENTS
AL-106-1.0	170371-18	3/30/17	1148	Soil	1	ice	X									
AL-106a-0.5	-19		1200				X									
AL-106a-1.0	-20		1205				X									
AL-102-0.5	-21		1247				X									
AL-102-1.0	-22		1304				X									
AL-102a-0.5	-23		1312				X									
AL-102a-1.0	-24		1305				X									
AL-104-0.5	-25		1325				X									
AL-104-1.0	-26		1328				X									
AL-104a-0.5	-27		1334				X									
AL-104a-1.0	-28		1337				X									
AL-99-0.5	-29		1357				X									
AL-99-1.0	-30		1402				X									
AL-99-2.5	-31		1408				X									
AL-99-3.0	-32		1412				X									

6010B Pb

Company Name:

Leighton Consulting

Project Contact:

Richard Orr

Sampler's Signature:

*[Signature]*

Address:

10532 Arcadia St Ste 136

Tel:

(909) 484-2205

Project Name/ID:

603445-100

City/State/Zip:

Rancho Cucamonga, CA 91730

Fax:

(909) 484-2170

Relinquished by:

X MA  
*[Signature]*

Received by:

Per-Chun Su  
*[Signature]*

Date & Time:

3/31/17  
 8:30

Instructions for Sample Storage After Analysis:

- Dispose of
- Return to Client
- Store (30 Days)
- Other:

Relinquished by:

Received by:

Date & Time:

3/31/17  
 9:00

Relinquished by:

Received by:

Date & Time:

**CHAIN OF CUSTODY RECORD**



**Enviro - Chem, Inc.**

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

Date: April 10, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445-100**  
Lab I.D.: **170404-27 through -75**

Dear Mr. Orr:

The **analytical results** for the soil and water samples, received by our lab on April 4, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

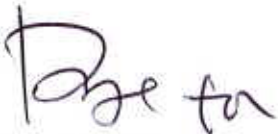
Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 04/04/17

SAMPLING DATE: 04/03/17

DATE ANALYZED: 04/06/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/10/17

EPA 6010B FOR TTLC-LEAD; PAGE 1 OF 3  
UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM


SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-114-0.5	170404-27	2.24	1
AL-114-1.0	170404-28	2.39	1
AL-114-2.0	170404-29	3.66	1
AL-114a-0.5	170404-30	4.26	1
AL-95-0.5	170404-31	3.25	1
AL-95-1.0	170404-32	3.60	1
AL-95-2.0	170404-33	3.90	1
AL-95a-0.5	170404-34	13.1	1
AL-92-0.5	170404-35	2.55	1
AL-92-1.0	170404-36	2.52	1
AL-92a-0.5	170404-37	2.62	1
AL-92a-1.0	170404-38	3.29	1
AL-86-0.5	170404-39	2.18	1
AL-86-1.0	170404-40	1.56	1

Method Blank --- ND 1

MDL 0.192  
PQL 0.50

**COMMENTS:**

DF = Dilution Factor  
MDL = Method Detection Limit  
PQL = Practical Quantitation Limit  
J = Trace Concentration between MDL and PQL  
Actual Detection Limit = PQL X DF  
ND = Below the Actual Detection Limit or non-detected  
TTLC = Total Threshold Limit Concentration  
STLC = Soluble Threshold Limit Concentration  
STLC Limit for lead = 5 PPM  
\* = STLC analysis is recommended (if marked)  
\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

## LABORATORY REPORT

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 04/04/17

SAMPLING DATE: 04/03/17

DATE ANALYZED: 04/06/17

REPORT TO: MR. RICHARD ORR


DATE REPORTED: 04/10/17

EPA 6010B FOR TTLC-LEAD; PAGE 2 OF 3  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
AL-86-1.5	170404-41	1.87	1
AL-86a-0.5	170404-42	2.71	1
AL-86a-1.0	170404-43	2.02	1
AL-76-0.5	170404-44	4.99	1
AL-76-1.0	170404-45	9.24	1
AL-76-2.0	170404-46	4.07	1
AL-76a-0.5	170404-47	5.69	1
AL-75-0.5	170404-48	2.59	1
AL-75-1.0	170404-49	2.29	1
AL-75-2.5	170404-50	4.55	1
AL-75-5.0	170404-51	3.39	1
AL-73-0.5	170404-52	3.69	1
AL-73-1.0	170404-53	2.51	1
AL-73-2.5	170404-54	5.26	1
AL-73a-0.5	170404-55	5.24	1
AL-71-0.5	170404-55A	4.70	1
AL-71-1.0	170404-56	5.69	1
AL-71-2.0	170404-57	2.65	1
AL-71a-0.5	170404-58	3.35	1
AL-68-0.5	170404-59	6.88	1
Method Blank	---	ND	1
	<b>MDL</b>	<b>0.192</b>	
	<b>PQL</b>	<b>0.50</b>	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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



LABORATORY REPORT

CUSTOMER: Leighton Consulting, Inc.  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445-100

MATRIX: WATER

DATE RECEIVED: 04/04/17

SAMPLING DATE: 04/03/17

DATE ANALYZED: 04/06/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/10/17

SAMPLE I.D.: 200-8

LAB I.D.: 170404-75

TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Lead (Pb)	ND	0.01	0.004	1	200.7

COMMENTS

DF = Dilution Factor

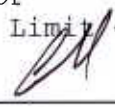
MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

### METHOD BLANK REPORT

CUSTOMER: **Leighton Consulting, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: WATER

DATE RECEIVED: 04/04/17

SAMPLING DATE: 04/03/17

DATE ANALYZED: 04/06/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/10/17

-----  
METHOD BLANK REPORT FOR LAB I.D.: 170404-75  
-----

#### TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM  
-----

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Lead (Pb)	ND	0.01	0.004	1	200.7

-----

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555



## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/7/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170404-69	50.0	100	PASS	3.33	50.0	47.4	88%	47.1	88%	1%
Chromium(Cr)	170404-69	50.0	102	PASS	17.4	50.0	62.5	90%	62.6	90%	0%
Lead(Pb)	170404-69	50.0	102	PASS	5.87	50.0	47.5	83%	47.8	84%	1%

ANALYSIS DATE. : 4/5/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170405-78	0.125	92	PASS	0	0.125	0.107	86%	0.110	88%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST:  \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/6/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170403-92	50.0	104	PASS	0.615	50.0	50.3	99%	50.1	99%	0%
Chromium(Cr)	170403-92	50.0	105	PASS	6.87	50.0	57.5	101%	55.5	97%	4%
Zinc(Zn)	170403-92	50.0	100	PASS	1.97	50.0	46.8	90%	46.5	89%	1%

ANALYSIS DATE. : 4/5/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170405-78	0.125	92	PASS	0	0.125	0.107	86%	0.110	88%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Zinc(Zn)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: 

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/6/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170404-41	50.0	104	PASS	0.589	50.0	47.8	94%	49.3	97%	3%
Chromium(Cr)	170404-41	50.0	106	PASS	14.8	50.0	61.5	93%	62.1	95%	1%
Zinc(Zn)	170404-41	50.0	97	PASS	1.87	50.0	41.7	80%	43.4	83%	4%

ANALYSIS DATE. : 4/5/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170405-78	0.125	92	PASS	0	0.125	0.107	86%	0.110	88%	3%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Zinc(Zn)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST:  \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for TLLC Metals Analysis --WATER MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/6/2017

Unit : mg/L(ppm)

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170404-25	1.00	104	PASS	0	1.00	0.955	96%	0.975	98%	2%
Lead(Pb)	170404-25	1.00	106	PASS	0	1.00	0.857	86%	0.869	87%	1%
Zinc(Zn)	170404-25	1.00	106	PASS	0.016	1.00	0.991	98%	1.02	100%	3%

ANALYSIS DATE. : 4/5/2017

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170404-25	0.00250	92	PASS	0	0.00250	0.00210	84%	0.00210	84%	0%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Zinc(Zn)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS	
		DATE	TIME										
AL-114-0.5	170404-27	4/3/17	0911	Soil	1	4021	ice	X					
AL-114-1.0	-28		0915					X					
AL-114-2.0	-29		0922					X					
AL-114a-0.5	-30		0927					X					
AL-95-0.5	-31		0939					X					
AL-95-1.0	-32		0941					X					
AL-95-2.0	-33		0945					X					
AL-95a-0.5	-34		0947					X					
AL-92-0.5	-35		0959					X					
AL-92-1.0	-36		1003					X					
AL-92a-0.5	-37		1008					X					
AL-92a-1.0	-38		1011					X					
AL-86-0.5	-39		1031					X					
AL-86-1.0	-40		1034					X					
AL-86-1.5	-41		1039					X					

60108 Pb

Misc./PO#

Company Name: Leighton Consulting		Project Contact: Richard Orr		Sampler's Signature:	
Address: 16532 Acacia St Ste B6		Tel: (909) 484-2205		Project Name/ID: 603445-100	
City/State/Zip: Rancho Cucamonga, CA 91730		Fax: (909) 484-2120			
Relinquished by:	Received by:	Date & Time: 4/4/17 09:32	Instructions for Sample Storage After Analysis:		
Relinquished by:	Received by:	Date & Time: 4/4/17 12:00	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days)		
Relinquished by:	Received by: WP	Date & Time:	<input type="radio"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 4/3/17

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS				
								Misc./PO#														
AL-86a-0.5	170404-42	4/3/17	1043	soil	1		ice	X														
AL-86a-1.0	-43		1045					X														
AL-76-0.5	-44		1106					X														
AL-76-1.0	-45		1111					X														
AL-76-2.0	-46		1114					X														
AL-76a-0.5	-47		1120					X														
AL-75-0.5	-48		1217					X														
AL-75-1.0	-49		1221					X														
AL-75-2.5	-50		1230					X														
AL-75-5.0	-51		1234					X														
AL-73-0.5	-52		1245					X														
AL-73-1.0	-53		1248					X														
AL-73-2.5	-54		1249					X														
AL-73a-0.5	-55		1252					X														

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature: <u>[Signature]</u>	
Address: <u>10532 Acacia St Ste B6</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-100</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax: <u>(909) 484-2170</u>			
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>4/4/17 09:22</u>	Instructions for Sample Storage After Analysis:		
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date & Time: <u>4/4/17 12:30</u>	<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="checkbox"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: 4/3/17

WHITE WITH SAMPLE - YELLOW TO CLIENT



**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS			
		DATE	TIME																		
AL-64a-0.5	70404-70	4/3/17	1431	soil	1		icc	X													
AL-64-0.5	-71		1444					X													
AL-62-1.0	-72		1446					X													
AL-62-2.0	-73		1449					X													
AL-62a-0.5	-74		1453					X													
200-8	-75		1503	water	1		HNO <sub>3</sub>	X													

6010B Pb

Misc./PO#

Company Name: <u>Leighton Consulting</u>		Project Contact: <u>Richard Orr</u>		Sampler's Signature:	
Address: <u>10532 Avenida St Ste Bg</u>		Tel: <u>(909) 484-2205</u>		Project Name/ID: <u>603445-160</u>	
City/State/Zip: <u>Rancho Cucamonga, CA 91730</u>		Fax: <u>(909) 484-2170</u>			
Relinquished by:	Received by:	Date & Time: <u>4/3/17 6:32</u>	Instructions for Sample Storage After Analysis:		
Relinquished by:	Received by:	Date & Time: <u>4/4/17 12:00</u>	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input type="radio"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="radio"/> Other:		

Date: 4/3/17

**CHAIN OF CUSTODY RECORD**

WHITE WITH SAMPLE • YELLOW TO CLIENT



**Enviro - Chem, Inc.**

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

Date: April 12, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170405-39 through -77**

Dear Mr. Orr:

The **analytical results** for the soil and water samples, received by our lab on April 5, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 04/05/17

SAMPLING DATE: 04/04/17

DATE ANALYZED: 04/05/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/12/17

**pH ANALYSIS**  
METHOD: EPA 9045C  
UNIT: pH UNITS

SAMPLE I.D.	LAB I.D.	pH RESULT
<u>AL-52-0.5</u>	<u>170405-47</u>	<u>8.15</u>
<u>AL-52-1.0</u>	<u>170405-48</u>	<u>8.47</u>
<u>AL-52a-0.5</u>	<u>170405-49</u>	<u>8.22</u>
<u>AL-52a-1.0</u>	<u>170405-50</u>	<u>8.48</u>
<u>AL-152-0.5</u>	<u>170405-51</u>	<u>8.27</u>
<u>AL-152-1.0</u>	<u>170405-52</u>	<u>8.71</u>
<u>AL-152a-0.5</u>	<u>170405-53</u>	<u>8.33</u>
<u>AL-152a-1.0</u>	<u>170405-54</u>	<u>8.46</u>

**COMMENTS:**

pH ANALYSIS CONDUCTED ON 1:1 SOIL/DEIONIZED WATER EXTRACTION

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

Matrix: Soil/Solid/Sludge

## QA/QC Report

Analysis	Units	Date Analyzed	Sample I.D.	S.R.	Duplicate	% RPD	ACP %RPD
Alkalinity	mg/L					0.00%	0-20
Residual Chlorine	mg/Kg					0.00%	0-20
EPA 1664A	mg/Kg					0.00%	0-20
EC	umhos/cm					0.00%	0-20
pH	pH units	4/5/2017	170405-47	8.15	8.17	0.25%	0-20
TDS	mg/L					0.00%	0-20
TSS	mg/Kg					0.00%	0-20
Resistivity	ohms					0.00%	0-20
% SOLID	%					0.00%	0-20
BTU	BTU/lb					0.00%	0-20
% MOISTURE	%					0.00%	0-20

%RPD = Relative Percent Difference

ACP %RPD = Acceptable Relative Percent Difference

Analysis	Units	Date Analyzed	Sample I.D.	Spk Conc	S.R.	ACP %RPD	ACP %RC	MS	MS %RC	MSD	MSD %RC	% RPD
Acidity	mg/Kg					0-20	80-120					#VALUE!
Ammonia as N	mg/Kg					0-20	80-120					0.0%
MBAS	mg/Kg			6.0	0.0	0-20	80-120					0.0%
Chloride	mg/Kg			200	35.0	0-20	80-120					0.0%
COD	mg/Kg			500	0.0	0-20	80-120					0.0%
Cr VI	mg/Kg			4.00	0.0	0-20	80-120					0.0%
Cyanide	mg/Kg			10.0	0.00	0-20	80-120					0.0%
Fluoride	mg/Kg			10.0	0.2	0-20	80-120					0.0%
Nitrate as N	mg/Kg			4.00	0.0	0-20	80-120					0.0%
Nitrite as N	mg/Kg			4.00	0.0	0-20	80-120					0.0%
1664	WIPE/mg			5000	0	0-20	80-120					0.0%
Phenolics	mg/Kg					0-20	80-120					0.0%
Sulfate	mg/Kg			200	16.2	0-20	80-120					0.0%
Sulfide	mg/Kg			3.0	0.0	0-20	80-120					0.0%
TRPH	mg/Kg	3/30/2017	LCS1/2	667	0.0	0-20	80-120	665	99.7%	664	99.6%	0.1%
Sulfide, Dissolved	mg/Kg			3.0	0.0	0-20	80-120					0.0%
Sulfide, Reactive	mg/Kg			3.0	0.0	0-20	80-120					#VALUE!

S.R. = Sample Results

%RC = Percent Recovery

ACP %RC = Accepted Percent Recovery

Spk Conc = Spike Concentration

Analyst Signature: WJH

Final Reviewer: [Signature]

## LABORATORY REPORT

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 04/05/17

SAMPLING DATE: 04/04/17

DATE ANALYZED: 04/10/17

REPORT TO: MR. RICHARD ORR

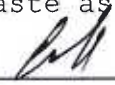
DATE REPORTED: 04/12/17

EPA 6010B FOR TTLC-LEAD; PAGE 1 OF 2  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
<u>AL-59-0.5</u>	<u>170405-39</u>	<u>4.45</u>	<u>1</u>
<u>AL-59-1.0</u>	<u>170405-40</u>	<u>4.31</u>	<u>1</u>
<u>AL-59a-0.5</u>	<u>170405-41</u>	<u>3.68</u>	<u>1</u>
<u>AL-59a-1.0</u>	<u>170405-42</u>	<u>2.63</u>	<u>1</u>
<u>AL-58-0.5</u>	<u>170405-43</u>	<u>9.24</u>	<u>1</u>
<u>AL-58-1.0</u>	<u>170405-44</u>	<u>83.2 *</u>	<u>1</u>
<u>AL-58a-0.5</u>	<u>170405-45</u>	<u>81.2 *</u>	<u>1</u>
<u>AL-58a-1.0</u>	<u>170405-46</u>	<u>9.42</u>	<u>1</u>
<u>AL-04-0.5</u>	<u>170405-55</u>	<u>35.1</u>	<u>1</u>
<u>AL-04-1.0</u>	<u>170405-56</u>	<u>5.12</u>	<u>1</u>
<u>AL-04a-0.5</u>	<u>170405-57</u>	<u>11.5</u>	<u>1</u>
<u>AL-04a-1.0</u>	<u>170405-58</u>	<u>3.69</u>	<u>1</u>
<u>Method Blank</u>	<u>---</u>	<u>ND</u>	<u>1</u>
	<b>MDL</b>	<b>0.084</b>	
	<b>PQL</b>	<b>0.50</b>	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

### LABORATORY REPORT

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**


MATRIX: SOIL DATE RECEIVED: 04/05/17  
 SAMPLING DATE: 04/04/17 DATE ANALYZED: 04/10/17  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 04/12/17

EPA 6010B FOR TTLC-LEAD; PAGE 2 OF 2  
 UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
<u>AL-104-0.5</u>	<u>170405-59</u>	<u>3.49</u>	<u>1</u>
<u>AL-104-1.0</u>	<u>170405-60</u>	<u>13.1</u>	<u>1</u>
<u>AL-104a-0.5</u>	<u>170405-61</u>	<u>22.2</u>	<u>1</u>
<u>AL-104a-1.0</u>	<u>170405-62</u>	<u>1.93</u>	<u>1</u>
<u>AL-37-0.5</u>	<u>170405-63</u>	<u>138 *</u>	<u>1</u>
<u>AL-37-1.0</u>	<u>170405-64</u>	<u>27.0</u>	<u>1</u>
<u>AL-37-2.5</u>	<u>170405-65</u>	<u>4.64</u>	<u>1</u>
<u>AL-37-5.0</u>	<u>170405-66</u>	<u>6.87</u>	<u>1</u>
<u>AL-38-0.5</u>	<u>170405-67</u>	<u>6.85</u>	<u>1</u>
<u>AL-38-1.0</u>	<u>170405-68</u>	<u>4.25</u>	<u>1</u>
<u>AL-38-2.5</u>	<u>170405-69</u>	<u>4.60</u>	<u>1</u>
<u>AL-38-5.0</u>	<u>170405-70</u>	<u>4.45</u>	<u>1</u>
<u>AL-67-0.5</u>	<u>170405-71</u>	<u>7.21</u>	<u>1</u>
<u>AL-67-1.0</u>	<u>170405-72</u>	<u>6.29</u>	<u>1</u>
<u>AL-67-2.5</u>	<u>170405-73</u>	<u>6.42</u>	<u>1</u>
<u>AL-67a-0.5</u>	<u>170405-74</u>	<u>7.74</u>	<u>1</u>
<u>AL-83a-0.5</u>	<u>170405-75</u>	<u>4.39</u>	<u>1</u>
<u>AL-83a-1.0</u>	<u>170405-76</u>	<u>2.72</u>	<u>1</u>
<u>Method Blank</u>	<u>---</u>	<u>ND</u>	<u>1</u>
	<b>MDL</b>	<b>0.084</b>	
	<b>PQL</b>	<b>0.50</b>	

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 STLC Limit for lead = 5 PPM  
 \* = STLC analysis is recommended (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 04/05/17

SAMPLING DATE: 04/04/17

DATE ANALYZED: 04/10/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/12/17

**EPA 6010B FOR TTLC-ARSENIC/LEAD**

UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	ARSENIC RESULT	DF	LEAD RESULT	DF
<u>AL-52-0.5</u>	170405-47	2.53	1	6.50	1
<u>AL-52-1.0</u>	170405-48	1.24	1	4.92	1
<u>AL-52a-0.5</u>	170405-49	2.21	1	5.56	1
<u>AL-52a-1.0</u>	170405-50	0.889	1	2.80	1
<u>AL-152-0.5</u>	170405-51	2.11	1	5.91	1
<u>AL-152-1.0</u>	170405-52	0.887	1	3.39	1
<u>AL-152a-0.5</u>	170405-53	2.08	1	4.58	1
<u>AL-152a-1.0</u>	170405-54	0.976	1	3.42	1
<u>Method Blank</u>	---	ND	1	ND	1
	<b>MDL</b>	<b>0.248</b>		<b>0.084</b>	
	<b>PQL</b>	<b>0.30</b>		<b>0.50</b>	

**COMMENTS:**

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = DF X PQL

ND = Non-Detected or below the Actual Detection Limit

TTLC = Total Threshold Limit Concentration


STLC = Soluble Threshold Limit Concentration

TTLC Limit for Arsenic = 500 PPM / STLC Limit for Arsenic = 5 PPM

TTLC Limit for lead = 1000 PPM / STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/10/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170405-66	50.0	102	PASS	4.75	50.0	54.1	99%	54.7	100%	1%
Chromium(Cr)	170405-66	50.0	106	PASS	17.2	50.0	66.0	98%	66.6	99%	1%
Lead(Pb)	170405-66	50.0	102	PASS	6.87	50.0	50.6	87%	50.3	87%	1%

ANALYSIS DATE. : 4/7/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170406-13	0.125	96	PASS	0	0.125	0.109	87%	0.104	83%	5%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/10/2017

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170405-42	50.0	102	PASS	0.984	50.0	47.3	93%	46.3	91%	2%
Chromium(Cr)	170405-42	50.0	105	PASS	12.5	50.0	57.6	90%	58.9	93%	3%
Lead(Pb)	170405-42	50.0	104	PASS	2.63	50.0	44.2	83%	46.4	88%	5%

ANALYSIS DATE. : 4/7/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170406-13	0.125	96	PASS	0	0.125	0.109	87%	0.104	83%	5%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control



**LABORATORY REPORT**

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PROJECT: **603445.100**

MATRIX: WATER

DATE RECEIVED: 04/05/17

SAMPLING DATE: 04/04/17

DATE ANALYZED: 04/06/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/12/17

SAMPLE I.D.: **200-9**

LAB I.D.: 170405-77

**TOTAL METALS ANALYSIS**

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Arsenic (As)	ND	0.01	0.005	1	200.7
Lead (Pb)	ND	0.01	0.004	1	200.7

**COMMENTS**

DF = Dilution Factor


MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

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



## QA/QC for TLLC Metals Analysis --WATER MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/6/2017

Unit : *mg/L(ppm)*

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	170404-25	1.00	104	PASS	0	1.00	0.955	96%	0.975	98%	2%
Lead(Pb)	170404-25	1.00	106	PASS	0	1.00	0.857	86%	0.869	87%	1%
Zinc(Zn)	170404-25	1.00	106	PASS	0.016	1.00	0.991	98%	1.02	100%	3%

ANALYSIS DATE. : 4/5/2017

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170404-25	0.00250	92	PASS	0	0.00250	0.00210	84%	0.00210	84%	0%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Zinc(Zn)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 04/05/17

SAMPLING DATE: 04/04/17

DATE ANALYZED: 04/07/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/12/17

**EPA 6010B FOR STLC-LEAD**  
**UNIT: mg/L IN THE STLC LEACHATE**

SAMPLE I.D.	LAB I.D.	STLC-LEAD RESULT	DF
<b>AL-52-0.5</b>	170405-47	0.139	1
<b>AL-52-1.0</b>	170405-48	ND	1
<b>AL-52a-0.5</b>	170405-49	0.084	1
<b>AL-52a-1.0</b>	170405-50	ND	1
<b>AL-152-0.5</b>	170405-51	0.177	1
<b>AL-152-1.0</b>	170405-52	ND	1
<b>AL-152a-0.5</b>	170405-53	0.086	1
<b>AL-152a-1.0</b>	170405-54	ND	1
<b>Method Blank</b>	---	ND	1

**MDL** 0.02  
**PQL** 0.05

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL


Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

STLC = Soluble Threshold Limit Concentration

mg/L = Milligram Per Liter = PPM

\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --STLC

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/7/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	170405-50	5.00	101	PASS	0	5.00	4.28	86%	4.27	85%	0%
Copper(Cu)	170405-50	5.00	105	PASS	0.115	5.00	4.86	95%	4.85	95%	0%
Lead(Pb)	170405-50	5.00	103	PASS	0	5.00	3.77	75%	3.78	76%	0%

ANALYSIS DATE: 3/27/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170323-54	0.0125	94	PASS	0	0.0125	0.0111	89%	0.0106	85%	5%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Copper(Cu)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_ 

FINAL REVIEWER: \_\_\_\_\_ 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control



## LABORATORY REPORT

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10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 04/04/17  
REPORT TO: MR. RICHARD ORR  
DATE RECEIVED: 04/05/17  
DATE EXTRACTED: 04/10/17  
DATE ANALYZED: 04/11/17  
DATE REPORTED: 04/12/17

SAMPLE I.D.: **AL-52-1.0**

LAB I.D.: 170405-48

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxyclor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:

CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

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Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
SAMPLING DATE: 04/04/17  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 04/05/17  
DATE EXTRACTED: 04/10/17  
DATE ANALYZED: 04/11/17  
DATE REPORTED: 04/12/17

SAMPLE I.D.: **AL-52a-0.5**

LAB I.D.: 170405-49

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit


Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:

CAL-DHS CERTIFICATE # 1555

  
\_\_\_\_\_



## LABORATORY REPORT

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10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
PROJECT: 603445.100

MATRIX: SOIL  
SAMPLING DATE: 04/04/17  
REPORT TO: MR. RICHARD ORR  
DATE RECEIVED: 04/05/17  
DATE EXTRACTED: 04/10/17  
DATE ANALYZED: 04/11/17  
DATE REPORTED: 04/12/17

SAMPLE I.D.: AL-52a-1.0

LAB I.D.: 170405-50

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

#### COMMENTS:

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:

CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: Leighton Consulting, Inc.  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
PROJECT: 603445.100

MATRIX: SOIL  
SAMPLING DATE: 04/04/17  
REPORT TO: MR. RICHARD ORR  
DATE RECEIVED: 04/05/17  
DATE EXTRACTED: 04/10/17  
DATE ANALYZED: 04/11/17  
DATE REPORTED: 04/12/17

SAMPLE I.D.: AL-152-0.5

LAB I.D.: 170405-51

### Organochlorine Pesticides Analysis

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

#### COMMENTS:

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:

CAL-DHS CERTIFICATE # 1555

  
\_\_\_\_\_

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 04/04/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 04/05/17  
 DATE EXTRACTED: 04/10/17  
 DATE ANALYZED: 04/11/17  
 DATE REPORTED: 04/12/17

SAMPLE I.D.: **AL-152-1.0** LAB I.D.: 170405-52

**Organochlorine Pesticides Analysis**


method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555



**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL  
 SAMPLING DATE: 04/04/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 04/05/17  
 DATE EXTRACTED: 04/10/17  
 DATE ANALYZED: 04/11/17  
 DATE REPORTED: 04/12/17

SAMPLE I.D.: **AL-152a-1.0** LAB I.D.: 170405-54

**Organochlorine Pesticides Analysis**

method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = PQL X DF  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



**METHOD BLANK REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

SAMPLING DATE: 04/04/17

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 04/05/17

DATE EXTRACTED: 04/10/17

DATE ANALYZED: 04/11/17

DATE REPORTED: 04/12/17

METHOD BLANK REPORT FOR LAB I.D.:  
 170405-47 THROUGH -54

Organochlorine Pesticides Analysis  
 method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



# Enviro-Chem, Inc.

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

## EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)**

Date Analyzed: **4/11/2017**

Unit: **mg/Kg (ppm)**

### Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **170405-47 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00534	<b>107%</b>	0.00542	<b>108%</b>	<b>2%</b>	<b>0-20%</b>	<b>70-130</b>
Aldrin	0.000	0.00500	0.00557	<b>111%</b>	0.00590	<b>118%</b>	<b>6%</b>	<b>0-20%</b>	<b>70-130</b>
4,4-DDE	0.000	0.00500	0.00513	<b>103%</b>	0.00491	<b>98%</b>	<b>4%</b>	<b>0-20%</b>	<b>70-130</b>

### Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00537	<b>107%</b>	<b>75-125</b>
Aldrin	0.00500	0.00583	<b>117%</b>	<b>75-125</b>
4,4-DDE	0.00500	0.00549	<b>110%</b>	<b>75-125</b>
Dieldrin	0.00500	0.00527	<b>105%</b>	<b>75-125</b>

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		<b>MB</b>	170405-47	170405-48	170405-49	170405-50	170405-51	170405-52	
Tetra-chloro-meta-xylene	50-150	136%	136%	133%	140%	128%	143%	134%	
Decachlorobiphenyl	50-150	92%	95%	140%	93%	73%	103%	69%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		170405-53	170405-54						
Tetra-chloro-meta-xylene	50-150	134%	131%						
Decachlorobiphenyl	50-150	89%	93%						

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene	50-150								
Decachlorobiphenyl	50-150								

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

\* = Surrogate fail due to matrix interference (If Marked)

**Note: LCS, MS, MSD are in control therefore results are in control.**

Analyzed and Reviewed By: 

Final Reviewer: 

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER  
 SAMPLING DATE: 04/04/17  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 04/05/17  
 DATE EXTRACTED: 04/05/17  
 DATE ANALYZED: 04/12/17  
 DATE REPORTED: 04/12/17

SAMPLE I.D.: **200-9**

LAB I.D.: 170405-77

**Organochlorine Pesticides Analysis**

Method: EPA 8081A

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555





**METHOD BLANK REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: WATER DATE RECEIVED: 04/05/17  
 SAMPLING DATE: 04/04/17 DATE EXTRACTED: 04/05/17  
 REPORT TO: MR. RICHARD ORR DATE ANALYZED: 04/12/17  
 DATE REPORTED: 04/12/17

METHOD BLANK REPORT FOR LAB I.D.: 170405-77

**Organochlorine Pesticides Analysis**


Method: EPA 8081A

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

# EPA 608 QA/QC Report

Matrix: Water/Liquid  
Unit: ug/L

Date Analyzed: 4/12/2017

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.: 170405-77 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0	0.500	0.533	107%	0.515	103%	3%	0-20%	70-130
Aldrin	0	0.500	0.587	117%	0.610	122%	4%	0-20%	70-130
4,4-DDE	0	0.500	0.560	112%	0.510	102%	9%	0-20%	70-130

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.500	0.593	119%	75-125
Aldrin	0.500	0.564	113%	75-125
4,4-DDE	0.500	0.408	82%	75-125
Dieldrin	0.500	0.402	80%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		M-BLK	170405-77	170406-59					
Tetra-chloro-meta-xylene	50-150	137%	145%	89%					
Decachlorobipneyl	50-150	77%	80%	54%					

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene									
Decachlorobipneyl									

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>							
Tetra-chloro-meta-xylene							
Decachlorobipneyl							

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

\* = Surrogate fail due to matrix interference

Note: LCS, MS, MSD are in control therefore results are in control.

Final Reviewer: 

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS
AL-59-0.5	170405-39	4/4/17	0916	Sos1	1	ice	X						
AL-59-1.0	-40		0931				X						
AL-59a-0.5	-41		0944				X						
AL-59a-1.0	-42		0955				X						
AL-58-0.5	-43		1007				X						
AL-58-1.0	-44		1016				X						
AL-58a-0.5	-45		1024				X						
AL-58a-1.0	-46		1037				X						
AL-52-0.5	-47		1053				X	X	X	X	X		
AL-52-1.0	-48		1057				X	X	X	X	X		
AL-52a-0.5	-49		1108				X	X	X	X	X		
AL-52a-1.0	-50		1113				X	X	X	X	X		
AL-152-0.5	-51		1054				X	X	X	X	X		
AL-152-1.0	-52		1058				X	X	X	X	X		
AL-152a-0.5	-53		1109				X	X	X	X	X		

60103 Pb  
 5720 Pb  
 CA WET  
 60103 As  
 8081A  
 PH

Company Name: Leighton Consulting  
 Address: 10532 Acacia St Ste B6  
 City/State/Zip: Rancho Cucamonga, CA 91730

Project Contact: Richard Orr  
 Tel: (909) 484-2205  
 Fax: (909) 484-2170

Sampler's Signature: [Signature]  
 Project Name/ID: 603445-100

Relinquished by: [Signature]  
 Relinquished by: [Signature]  
 Relinquished by: [Signature]

Received by: [Signature]  
 Received by: [Signature]  
 Received by: [Signature]

Date & Time: 4/5/17 08:07  
 Date & Time: 4/5/17 9:50  
 Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

Date: 4/4/17

**CHAIN OF CUSTODY RECORD**

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS
								6010B Pb	372C Pb CA WET	6010B As	8081A	pH	
AL-152a-1.0	170405-54	4/4/17	1114	Soil	1		100	X	X	X	X	X	
AL-04-0.5	-55		1145					X					
AL-04-6.0	-56		1149					X					
AL-04a-0.5	-57		1200					X					
AL-04a-1.0	-58		1205					X					
AL-104-0.5	-59		1146					X					
AL-104-1.0	-60		1150					X					
AL-104a-0.5	-61		1201					X					
AL-104a-1.0	-62		1206					X					
AL-37-0.5	-63		1249					X					
AL-37-1.0	-64		1252					X					
AL-37-2.5	-65		1258					X					
AL-37-5.0	-66		1302					X					
AL-38-0.5	-67		1307					X					
AL-38-1.0	-68		1313					X					

Company Name: Leighton Consulting  
 Address: 10537 Avenida St Ste B6  
 City/State/Zip: Rancho Cucamonga, CA 91730

Project Contact: Richard Orr  
 Tel: (909) 484-2205  
 Fax: (909) 484-2170

Sampler's Signature: [Signature]  
 Project Name/ID: 603445-100

Relinquished by: [Signature]  
 Relinquished by: [Signature]  
 Relinquished by: [Signature]

Received by: [Signature]  
 Received by: [Signature]  
 Received by: [Signature]

Date & Time: 08:57  
 Date & Time: 4/5/17  
 Date & Time: 9:50

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 4/4/17

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required			COMMENTS
		DATE	TIME					6010B Pb	6010B As	8081A	
AL-38-2.5	170405-69	4/4/17	1318	soil	1		ice	X			
AL-38-5.0	-70		1323					X			
AL-67-0.5	-71		1350					X			
AL-67-1.0	-72		1407					X			
AL-67-2.5	-73		1421					X			
AL-67a-0.5	-74		1425					X			
<del>AL-83-0.5</del>			<del>1443</del>					<del>X</del>			
<del>AL-83-1.0</del>			<del>1444</del>					<del>X</del>			
AL-83a-0.5	-75		1445					X			
AL-83a-1.0	-76		1450					X			
200-9	-77		1515	water	2		ice/HNO <sub>3</sub>	X	X	X	

Company Name: Leighton Consulting  
 Address: 10532 Acacia St Ste B6  
 City/State/Zip: Rancho Cucamonga, CA 91730

Project Contact: Richard Orr  
 Tel: (909) 484-2205  
 Fax: (909) 484-2170

Sampler's Signature: [Signature]  
 Project Name/ID: 603445-100

Relinquished by: [Signature]  
 Relinquished by: [Signature]  
 Relinquished by:

Received by: [Signature]  
 Received by: wep  
 Received by:

Date & Time: 4/5/17 08:57  
 Date & Time: 4/5/17  
 Date & Time:

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

Date: 4/4/17

WHITE WITH SAMPLE • YELLOW TO CLIENT

**Enviro - Chem, Inc.**

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

Date: April 21, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170405-39 through -77**

Dear Mr. Orr:

The **additional STLC-Pb results** for the soil and water samples, received by our lab on April 5, 2017, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

Enviro - Chem, Inc.

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

LABORATORY REPORT

CUSTOMER: Leighton Consulting, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445.100

MATRIX: SOIL

DATE RECEIVED: 04/05/17

SAMPLING DATE: 04/04/17

DATE ANALYZED: 04/21/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/21/17

EPA 6010B FOR STLC-LEAD
UNIT: mg/L IN THE STLC LEACHATE

Table with 4 columns: SAMPLE I.D., LAB I.D., STLC-LEAD RESULT, DF. Rows include AL-58-1.0, AL-58a-0.5, AL-37-0.5, Method Blank, MDL, and PQL.

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
STLC = Soluble Threshold Limit Concentration
mg/L = Milligram Per Liter = PPM
\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis -STLC

**Matrix Spike/ Matrix Spike Duplicate/ LCS :**

ANALYSIS DATE: 4/21/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Lead(Pb)	170405-63	5.00	101	PASS	4.89	5.00	9.81	98%	9.83	99%	0%

ANALYSIS DATE:

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD

**MS/MSD Status:**

Analysis	%MS	%MSD	%LCS	%RPD
Lead(Pb)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST:  \_\_\_\_\_

FINAL REVIEWER:  \_\_\_\_\_

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control



**Subject:** Fwd: Additional STLC analyses  
**From:** "Curtis B. Desilets" <curt.envirocheminc@gmail.com>  
**Date:** 4/19/2017 3:12 PM  
**To:** Jessica Lin <envirocheminc@gmail.com>

Please start...

----- Forwarded message -----

**From:** Zachary Freeman <zfreeman@leightongroup.com>  
**Date:** Wed, Apr 19, 2017 at 2:59 PM  
**Subject:** Additional STLC analyses  
**To:** "jessicaylin628@gmail.com" <jessicaylin628@gmail.com>  
**Cc:** "Curtis B. Desilets" <curt.envirocheminc@gmail.com>

Hi Jessica and Curtis,

I have some additional WET citric acid lead analyses I need run. Lab ID numbers: 170405-63 (AL-37-0.5), 170405-44 (AL-58-1.0), 170405-45 (AL-58a-0.5), 170330-15 (AL-129-0.5), 170330-25 (AL-138-1.0), and 170330-26 (AL-138a-1.0). I need these on 48-hour turn. If any of the analyses exceed the 5mg/l limit please run those samples for WET-DI lead as well.

Thanks,

**Zach Freeman, PG**

Project Geologist

10532 Acacia Street Suite B-6

Rancho Cucamonga, CA 91786

951-743-2642 Cellular

909-484-2205 Office

**Leighton**

Solutions You Can Build On

**Enviro - Chem, Inc.**

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

Date: April 24, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445.100**  
Lab I.D.: **170405-39 through -77**

Dear Mr. Orr:

The **additional STLC DI-Pb results** for the soil and water samples, received by our lab on April 5, 2017, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets  
Vice President/Program Manger

  
Andy Wang  
Laboratory Manager

**Enviro - Chem, Inc.**

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

**LABORATORY REPORT**

CUSTOMER: **Leighton Consulting, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445.100**

MATRIX: SOIL

DATE RECEIVED: 04/05/17

SAMPLING DATE: 04/04/17

DATE ANALYZED: 04/22-24/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/24/17

EPA 6010B FOR STLC DI-LEAD  
UNIT: mg/L IN THE STLC LEACHATE

SAMPLE I.D.	LAB I.D.	STLC DI-LEAD RESULT	DF
AL-58a-0.5	170405-45	0.045J	1
Method Blank	---	ND	1
	MDL	0.02	
	PQL	0.05	

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF


ND = Below the Actual Detection Limit or non-detected

STLC = Soluble Threshold Limit Concentration

mg/L = Milligram Per Liter = PPM

**Extraction performed using DI Water**

\*\*\* = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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

## QA/QC for Metals Analysis --STLC

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/24/2017

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Barium(Ba)	170420-18	5.00	100	PASS	3.25	5.00	7.24	80%	7.22	79%	1%
Chromium(Cr)	170420-18	5.00	101	PASS	0.062	5.00	4.40	87%	4.41	87%	0%
Lead(Pb)	170420-18	5.00	101	PASS	1.42	5.00	5.50	82%	5.48	81%	0%

ANALYSIS DATE: 4/17/2017

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170414-32	0.0125	92	PASS	0	0.0125	0.0113	90%	0.0106	85%	6%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Barium(Ba)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_ 

FINAL REVIEWER: \_\_\_\_\_ 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

**Enviro - Chem, Inc.**

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

Date: April 12, 2017

Mr. Richard Orr  
Leighton Consulting, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445-100**  
Lab I.D.: **170406-1 through -8**

Dear Mr. Orr:

The **analytical results** for the soil samples, received by our lab on April 6, 2017, are attached. The samples were received chilled, intact and with chain of custody record.

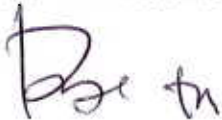
Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

Enviro - Chem, Inc.

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

LABORATORY REPORT

CUSTOMER: Leighton Consulting, Inc.
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: 603445-100

MATRIX: SOIL

DATE RECEIVED: 04/06/17

SAMPLING DATE: 04/05/17

DATE ANALYZED: 04/11/17

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 04/12/17

EPA 6010B FOR TTLC-LEAD
UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

Table with 4 columns: SAMPLE I.D., LAB I.D., TTLC-LEAD RESULT, DF. Rows include samples like AL-60-0.5, AL-60-1.0, AL-60-2.5, AL-60a-0.5, AL-130-0.5, AL-130-1.0, AL-130a-0.5, AL-130a-1.0, and Method Blank.

MDL 0.192
PQL 0.50

COMMENTS:

DF = Dilution Factor
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
J = Trace Concentration between MDL and PQL
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
STLC Limit for lead = 5 PPM
\* = STLC analysis is recommended (if marked)
\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste, as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/11/2017

Unit : mg/Kg(ppm)


Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	170407-13	50.0	104	PASS	45.9	50.0	94.2	97%	93.8	96%	1%
Lead(Pb)	170407-13	50.0	103	PASS	4.88	50.0	46.4	83%	45.7	82%	2%
Nickel(Ni)	170407-13	50.0	104	PASS	73.4	50.0	122	97%	121	95%	2%

ANALYSIS DATE. : 4/10/2017

Analysis	Spk.Sample ID	O CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	170407-39	0.125	94	PASS	0	0.125	0.105	84%	0.111	89%	6%

### MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Nickel(Ni)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_ 

FINAL REVIEWER: \_\_\_\_\_ 

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control





Date: November 11, 2016

Mr. Richard Orr  
Leighton & Associates, Inc.  
10532 Acacia, Suite B-6  
Rancho Cucamonga, CA 91730  
Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

Project: **603445-100**  
Lab I.D.: **161104-23 through -37**

Dear Mr. Orr:

The **analytical results** for the soil and water samples, received by our lab on November 4, 2016, are attached. The samples were received chilled, intact and with chain of custody record.

Trace concentrations between the MDL and the PQL have been reported with a "J" flag indicator.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manger



Andy Wang  
Laboratory Manager

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL  
 SAMPLING DATE: 11/04/16  
 REPORT TO: MR. RICHARD ORR


DATE RECEIVED: 11/04/16  
 DATE EXTRACTED: 11/08/16  
 DATE ANALYZED: 11/08&09/16  
 DATE REPORTED: 11/11/16

**TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS**  
**METHOD: EPA 8015B**  
**UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM**

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
RR-10-0.5	161104-23	ND	7.23J*	39.7J	1
RR-10-1.0	161104-24	ND	5.99J*	ND	1
RR-10-2.5	161104-25	ND	5.64J*	ND	1
RR-9-0.5	161104-26	ND	6.62J*	ND	1
RR-9-1.0	161104-27	ND	5.54J*	ND	1
RR-0-2.5	161104-28	ND	5.77J*	ND	1
RR-9-5.0	161104-30	ND	5.43J*	ND	1
RR-8-0.5	161104-31	ND	6.05J*	ND	1
RR-8-1.0	161104-32	ND	5.45J*	ND	1
RR-8-2.5	161104-33	ND	6.09J*	27.7J	1
R-8-3.0	161104-34	ND	5.67J*	26.7J	1
RR-7-0.5	161104-35	ND	5.46J*	ND	1
RR-7-1.0	161104-36	ND	5.97J*	68.6	1
RR-7-2.5	161104-37	ND	5.73J*	ND	1
<b>METHOD BLANK</b>		ND	ND	ND	1
	<b>MDL</b>	5	5	25	
	<b>PQL</b>	10	10	50	

**COMMENTS**

C4-C10 = GASOLINE RANGE  
 C11-C22 = DIESEL RANGE  
 C23-C35 = MOTOR OIL RANGE  
 DF = DILUTION FACTOR  
 MDL = METHOD DETECTION LIMIT  
 PQL = PRACTICAL QUANTITATION LIMIT  
 J = TRACE CONCENTRATION BETWEEN MDL AND PQL  
 ACTUAL DETECTION LIMIT = DF X PQL  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT  
 \* = PEAKS IN DIESEL RANGE BUT CHROMATOGRAM DOES NOT MATCH THAT OF DIESEL STANDARD

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

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

# 8015B QA/QC Report

Date Analyzed: 11/8/2016

Units: ug/L (PPB)

Matrix: Water/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 161104-29 MS/MSD

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11-C22 RANGE	0	12000	10571	88%	10571	88%	0%	75-125	0-20%

### LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11-C22 RANGE	12000	11344	95%	75-125

Analyzed and Reviewed by: \_\_\_\_\_



Final Reviewer: \_\_\_\_\_



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: WATER

SAMPLING DATE: 11/04/16

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16

DATE EXTRACTED: 11/04/16

DATE ANALYZED: 11/08/16

DATE REPORTED: 11/11/16

**TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS**

METHOD: EPA 8015B

UNIT:  $\mu\text{G/L}$  = MICROGRAM PER LITER = PPB

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
<u>100-1</u>	<u>161104-29</u>	ND	ND	ND	1
<u>METHOD BLANK</u>		ND	ND	ND	1
	<b>MDL</b>	250	250	2500	
	<b>PQL</b>	500	500	5000	

**COMMENTS**

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE

C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR


MDL = METHOD DETECTION LIMIT

PQL = PRACTICAL QUANTITATION LIMIT

J = TRACE CONCENTRATION BETWEEN MDL AND PQL

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

# 8015B QA/QC Report

Date Analyzed: 11/8-9/2016

Units: mg/Kg (ppm)

Matrix: Soil/Solid/Sludge/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **161103-34 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	200	166	83%	165	83%	1%	75-125	0-20%

**LCS STD RECOVERY:**

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	189	95%	75-125

Analyzed and Reviewed By: \_\_\_\_\_



Final Reviewer: \_\_\_\_\_



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-10-0.5**

LAB I.D.: 161104-23

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLT LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	2.07	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	151	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	0.616	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	34.3	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.42	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	32.0	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	29.8	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.038	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	18.4	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	44.7	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	179	0.5	0.131	1	5,000	250	6010B

### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLT = Soluble Threshold Limit Concentration

@ = Must meet both the STLT Limit at 560 and EPA-TCLP Limit at 5

\* = STLT analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-10-1.0**

LAB I.D.: 161104-24

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.12	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	91.0	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	17.0	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.69	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	17.1	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	19.9	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.024	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	11.3	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	40.3	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	75.3	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-10-2.5**

LAB I.D.: 161104-25

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLT LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.14	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	113	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	17.6	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.16	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	15.4	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	10.8	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.026	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	11.6	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	43.1	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	59.6	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLT = Soluble Threshold Limit Concentration

@ = Must meet both the STLT Limit at 560 and EPA-TCLP Limit at 5

\* = STLT analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL DATE RECEIVED: 11/04/16  
 SAMPLING DATE: 11/04/16 DATE ANALYZED: 11/07/16  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-9-0.5**

LAB I.D.: 161104-26

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.37	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	99.4	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	0.351J	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	19.0	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.90	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	21.4	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	28.2	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.026	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	13.2	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	40.9	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	89.8	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5  
 \* = STLC analysis for the metal is recommended (if marked)  
 \*\* = Additional Analysis required, please call to discuss (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)  
 -- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-9-1.0**

LAB I.D.: 161104-27

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLT LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.04	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	119	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	28.1	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	8.43	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	66.4	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	14.8	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.026	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	15.5	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	46.6	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	60.8	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLT = Soluble Threshold Limit Concentration

@ = Must meet both the STLT Limit at 560 and EPA-TCLP Limit at 5

\* = STLT analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL DATE RECEIVED: 11/04/16  
 SAMPLING DATE: 11/04/16 DATE ANALYZED: 11/07/16  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-9-2.5**

LAB I.D.: 161104-28

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.04	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	110	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	25.6	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.62	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	18.5	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	10.2	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.028	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	15.3	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	43.2	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	54.9	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5  
 \* = STLC analysis for the metal is recommended (if marked)  
 \*\* = Additional Analysis required, please call to discuss (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)  
 -- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-9-5.0**

LAB I.D.: 161104-30

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.90	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	117	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	22.2	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	8.24	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	14.4	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	2.31	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.023	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	13.7	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	45.3	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	42.8	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-8-0.5**

LAB I.D.: 161104-31

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLT LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	0.923	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	90.5	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	17.9	0.5	0.138	1	2,500	560/500	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.65	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	12.4	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	8.50	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.028	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	10.9	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	39.5	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	51.5	0.5	0.131	1	5,000	250	6010B

### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLT = Soluble Threshold Limit Concentration

@ = Must meet both the STLT Limit at 560 and EPA-TCLP Limit at 5

\* = STLT analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-8-1.0**

LAB I.D.: 161104-32

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLT LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.13	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	96.8	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	17.8	0.5	0.138	1	2,500	560/500	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.14	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	17.5	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	19.4	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.038	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	11.7	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	42.7	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	69.7	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLT = Soluble Threshold Limit Concentration

@ = Must meet both the STLT Limit at 560 and EPA-TCLP Limit at 5

\* = STLT analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-8-2.5**

LAB I.D.: 161104-33

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLT LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.22	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	107	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	18.5	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.60	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	16.5	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	10.3	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.024	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	11.8	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	43.7	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	69.3	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLT = Soluble Threshold Limit Concentration

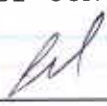
@ = Must meet both the STLT Limit at 560 and EPA-TCLP Limit at 5

\* = STLT analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **R-8-3.0**

LAB I.D.: 161104-34

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLT LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	0.927	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	106	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	18.4	0.5	0.138	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.50	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	14.0	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	7.12	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.022	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	11.1	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	42.1	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	52.3	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLT = Soluble Threshold Limit Concentration


@ = Must meet both the STLT Limit at 560 and EPA-TCLP Limit at 5

\* = STLT analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-7-0.5**

LAB I.D.: 161104-35

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	0.888	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	90.2	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	15.2	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.71	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	16.6	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	17.9	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.024	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	10.2	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	39.0	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	62.1	0.5	0.131	1	5,000	250	6010B

#### COMMENTS

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLT = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5  
 \* = STLC analysis for the metal is recommended (if marked)  
 \*\* = Additional Analysis required, please call to discuss (if marked)  
 \*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)  
 -- = Not analyzed/not requested

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

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-7-1.0**

LAB I.D.: 161104-36

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
**UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM**

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	0.680	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	98.0	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	49.3	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	6.54	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	13.4	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	5.56	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.022	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	10.1	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	59.1	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	47.0	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

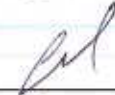
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-7-2.5**

LAB I.D.: 161104-37

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**  
 UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	1.08	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	96.9	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	28.2	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	7.23	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	14.3	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	8.81	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	0.022	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	15.5	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	40.7	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	52.2	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

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

**METHOD BLANK REPORT**

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL DATE RECEIVED: 11/04/16  
 SAMPLING DATE: 11/04/16 DATE ANALYZED: 11/07/16  
 REPORT TO: MR. RICHARD ORR DATE REPORTED: 11/11/16

**METHOD BLANK FOR LAB I.D.:**

161104-23, -24, -25, -26, -27, -28, -30, -31, -32, -33, -34, -35, -36,  
 -37

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	0.250	1	500	15	6010B
Arsenic (As)	ND	0.3	0.248	1	500	5.0	6010B
Barium (Ba)	ND	5.0	0.143	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	0.180	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	0.119	1	100	1.0	6010B
Chromium Total (Cr)	ND	0.5	0.138	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.2	0.0156	1	500	5.0	7196A
Cobalt (Co)	ND	1.0	0.156	1	8,000	80	6010B
Copper (Cu)	ND	1.0	0.203	1	2,500	25	6010B
Lead (Pb)	ND	0.5	0.192	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	0.0062	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	0.274	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	0.165	1	2,000	20	6010B
Selenium (Se)	ND	1.0	0.234	1	100	1.0	6010B
Silver (Ag)	ND	1.0	0.414	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	0.432	1	700	7.0	6010B
Vanadium (V)	ND	5.0	0.171	1	2,400	24	6010B
Zinc (Zn)	ND	0.5	0.131	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 Actual Detection Limit = PQL X DF  
 ND = Below the Actual Detection Limit or non-detected  
 TTLC = Total Threshold Limit Concentration  
 STLC = Soluble Threshold Limit Concentration  
 @ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5  
 \* = STLC analysis for the metal is recommended (if marked)  
 \*\* = Additional Analysis required, please call to discuss (if marked)  
 \*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)  
 -- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis--TTLC--SOLID/SOIL MATRIX

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

Metals Analysis Date : 11/7/2016

Mercury Analysis Date : 11/7/2016

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	LCS	LCS	LCS	Sample Result	Spike Conc.	MS	% Rec	MSD	% Rec	% RPD
		CONC.	%Rec.	STATUS				MS		MSD	
Antimony (Sb)	161104-15	50.0	102	PASS	0	50	39.1	78%	39.7	79%	2%
Arsenic (As)	161104-15	50.0	102	PASS	3.15	50	43.4	81%	43.8	81%	1%
Barium (Ba)	161104-15	50.0	98	PASS	77.2	50	86.9	19%	87.4	20%	5%
Beryllium (Be)	161104-15	50.0	95	PASS	3.68	50	44.1	81%	44.2	81%	0%
Cadmium (Cd)	161104-15	50.0	104	PASS	0	50	43.5	87%	44.1	88%	1%
Chromium (Cr)	161104-15	50.0	97	PASS	27.6	50	79.2	103%	79.3	103%	0%
Cobalt (Co)	161104-15	50.0	105	PASS	3.63	50	48.8	90%	49.3	91%	1%
Copper (Cu)	161104-15	50.0	99	PASS	3.70	50	61.0	115%	61.2	115%	0%
Lead (Pb)	161104-15	50.0	107	PASS	0	50	38.3	77%	38.9	78%	2%
Mercury (Hg)	161104-38	0.125	97	PASS	0.014	0.125	0.120	85%	0.116	82%	4%
Molybdenum(Mo)	161104-15	50.0	105	PASS	0	50	40.7	81%	41.3	83%	1%
Nickel (Ni)	161104-15	50.0	104	PASS	12.1	50	48.4	73%	49.2	74%	2%
Selenium (Se)	161104-15	50.0	100	PASS	0	50	41.9	84%	42.4	85%	1%
Silver (Ag)	161104-15	5.0	100	PASS	0	5.0	2.85	57%*	2.82	56%*	2%
Thallium (Tl)	161104-15	50.0	98	PASS	0	50	38.3	77%	38.3	77%	2%
Vanadium (V)	161104-15	50.0	98	PASS	7.35	50	56.8	99%	56.6	99%	0%
Zinc (Zn)	161104-15	50.0	107	PASS	19.6	50	80.6	122%	81.2	123%	5%

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: WATER

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07&08/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **100-1**

LAB I.D.: 161104-29

### TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Antimony (Sb)	ND	0.02	0.005	1	200.7
Arsenic (As)	ND	0.01	0.005	1	200.7
Barium (Ba)	ND	0.10	0.003	1	200.7
Beryllium (Be)	ND	0.01	0.004	1	200.7
Cadmium (Cd)	ND	0.01	0.002	1	200.7
Chromium (Cr)	ND	0.01	0.003	1	200.7
Cobalt (Co)	ND	0.02	0.003	1	200.7
Copper (Cu)	ND	0.02	0.004	1	200.7
Lead (Pb)	ND	0.01	0.004	1	200.7
Mercury (Hg)	ND	0.0005	0.0002	1	245.1
Molybdenum (Mo)	ND	0.1	0.005	1	200.7
Nickel (Ni)	ND	0.05	0.003	1	200.7
Selenium (Se)	ND	0.02	0.005	1	200.7
Silver (Ag)	ND	0.02	0.008	1	200.7
Thallium (Tl)	ND	0.02	0.009	1	200.7
Vanadium (V)	ND	0.1	0.003	1	200.7
Zinc (Zn)	0.055	0.01	0.003	1	200.7

#### COMMENTS

DF = Dilution Factor


MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## METHOD BLANK REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: WATER

DATE RECEIVED: 11/04/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07&08/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

METHOD BLANK REPORT FOR LAB I.D.: 161104-29

### TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	MDL	DF	EPA METHOD
Antimony (Sb)	ND	0.02	0.005	1	200.7
Arsenic (As)	ND	0.01	0.005	1	200.7
Barium (Ba)	ND	0.10	0.003	1	200.7
Beryllium (Be)	ND	0.01	0.004	1	200.7
Cadmium (Cd)	ND	0.01	0.002	1	200.7
Chromium (Cr)	ND	0.01	0.003	1	200.7
Cobalt (Co)	ND	0.02	0.003	1	200.7
Copper (Cu)	ND	0.02	0.004	1	200.7
Lead (Pb)	ND	0.01	0.004	1	200.7
Mercury (Hg)	ND	0.0005	0.0002	1	245.1
Molybdenum (Mo)	ND	0.1	0.005	1	200.7
Nickel (Ni)	ND	0.05	0.003	1	200.7
Selenium (Se)	ND	0.02	0.005	1	200.7
Silver (Ag)	ND	0.02	0.008	1	200.7
Thallium (Tl)	ND	0.02	0.009	1	200.7
Vanadium (V)	ND	0.1	0.003	1	200.7
Zinc (Zn)	ND	0.01	0.003	1	200.7

#### COMMENTS

DF = Dilution Factor


MDL = Method Detection Limit

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC for Metals Analysis--TTLC--WATER

### Matrix Spike/ Matrix Spike Duplicate/ LCS :

Metals Analysis Date : 11/8/2016

Mercury Analysis Date : 11/7/2016

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Antimony (Sb)	161104-29	1.00	103	PASS	0	1.00	1.14	114%	1.15	115%	1%
Arsenic (As)	161104-29	1.00	103	PASS	0	1.00	1.10	110%	1.11	111%	1%
Barium (Ba)	161104-29	1.00	101	PASS	0	1.00	1.09	109%	1.10	110%	1%
Beryllium (Be)	161104-29	1.00	98	PASS	0	1.00	1.02	102%	1.04	104%	2%
Cadmium (Cd)	161104-29	1.00	105	PASS	0	1.00	1.14	114%	1.15	115%	1%
Chromium (Cr)	161104-29	1.00	100	PASS	0	1.00	1.05	105%	1.06	106%	1%
Cobalt (Co)	161104-29	1.00	105	PASS	0	1.00	1.11	111%	1.12	112%	1%
Copper (Cu)	161104-29	1.00	111	PASS	0	1.00	1.04	104%	1.06	106%	2%
Lead (Pb)	161104-29	1.00	106	PASS	0	1.00	1.13	113%	1.15	115%	2%
Mercury (Hg)	161104-29	0.0025	96.0	PASS	0	0.0025	0.0022	88%	0.0022	88%	0%
Molybdenum(Mo)	161104-29	1.00	105	PASS	0	1.00	1.13	113%	1.14	114%	1%
Nickel (Ni)	161104-29	1.00	100	PASS	0	1.00	1.07	107%	1.08	108%	1%
Selenium (Se)	161104-29	1.00	102	PASS	0	1.00	1.13	113%	1.14	114%	1%
Silver (Ag)	161104-29	0.10	100	PASS	0	0.100	0.076	76%	0.075	75%	1%
Thallium (Tl)	161104-29	1.00	100	PASS	0	1.00	1.04	104%	1.02	102%	2%
Vanadium (V)	161104-29	1.00	99	PASS	0	1.00	1.03	103%	1.06	106%	3%
Zinc (Zn)	161104-29	1.00	108	PASS	0.055	1.00	1.21	116%	1.22	117%	1%

\*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL  
 SAMPLING DATE: 11/04/16  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16  
 DATE EXTRACTED: 11/07/16  
 DATE ANALYZED: 11/07&08/16  
 DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-10-0.5**

LAB I.D.: 161104-23

**Organochlorine Pesticides & PCBs Analysis**  
**Method: EPA 8081A/8082**  
**Unit: mg/Kg = Milligram per Kilogram = PPM**

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	5*
alpha-BHC	ND	0.001	0.0001	5*
beta-BHC	ND	0.001	0.0001	5*
gamma-BHC (Lindane)	ND	0.001	0.0001	5*
delta-BHC	ND	0.001	0.0001	5*
alpha-Chlordane	ND	0.001	0.0001	5*
gamma-Chlordane	ND	0.001	0.0001	5*
Technical Chlordane	ND	0.005	0.0005	5*
4,4'-DDD	ND	0.001	0.0002	5*
4,4'-DDE	ND	0.001	0.0001	5*
4,4'-DDT	ND	0.001	0.0001	5*
Dieldrin	ND	0.001	0.0002	5*
Endosulfan I	ND	0.001	0.0002	5*
Endosulfan II	ND	0.001	0.0002	5*
Endosulfan Sulfate	ND	0.001	0.0001	5*
Endrin	ND	0.001	0.0001	5*
Endrin Aldehyde	ND	0.001	0.0001	5*
Endrin Ketone	ND	0.001	0.0001	5*
Heptachlor Epoxide	ND	0.001	0.0001	5*
Heptachlor	ND	0.001	0.0001	5*
Methoxychlor	ND	0.001	0.0001	5*
Toxaphene	ND	0.020	0.0100	5*
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected  
 \* = Actual detection limit raised due to matrix interference

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

DATE RECEIVED: 11/04/16

MATRIX: SOIL

DATE EXTRACTED: 11/07/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07&08/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-10-1.0**

LAB I.D.: 161104-24

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	5*
alpha-BHC	ND	0.001	0.0001	5*
beta-BHC	ND	0.001	0.0001	5*
gamma-BHC (Lindane)	ND	0.001	0.0001	5*
delta-BHC	ND	0.001	0.0001	5*
alpha-Chlordane	ND	0.001	0.0001	5*
gamma-Chlordane	ND	0.001	0.0001	5*
Technical Chlordane	ND	0.005	0.0005	5*
4,4'-DDD	ND	0.001	0.0002	5*
4,4'-DDE	ND	0.001	0.0001	5*
4,4'-DDT	ND	0.001	0.0001	5*
Dieldrin	ND	0.001	0.0002	5*
Endosulfan I	ND	0.001	0.0002	5*
Endosulfan II	ND	0.001	0.0002	5*
Endosulfan Sulfate	ND	0.001	0.0001	5*
Endrin	ND	0.001	0.0001	5*
Endrin Aldehyde	ND	0.001	0.0001	5*
Endrin Ketone	ND	0.001	0.0001	5*
Heptachlor Epoxide	ND	0.001	0.0001	5*
Heptachlor	ND	0.001	0.0001	5*
Methoxychlor	ND	0.001	0.0001	5*
Toxaphene	ND	0.020	0.0100	5*
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

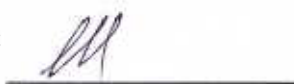
PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

\* = Actual detection limit raised due to matrix interference

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL  
SAMPLING DATE: 11/04/16  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16  
DATE EXTRACTED: 11/07/16  
DATE ANALYZED: 11/07/16  
DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-10-2.5**

LAB I.D.: 161104-25

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	10*
alpha-BHC	ND	0.001	0.0001	10*
beta-BHC	ND	0.001	0.0001	10*
gamma-BHC (Lindane)	ND	0.001	0.0001	10*
delta-BHC	ND	0.001	0.0001	10*
alpha-Chlordane	ND	0.001	0.0001	10*
gamma-Chlordane	ND	0.001	0.0001	10*
Technical Chlordane	ND	0.005	0.0005	10*
4,4'-DDD	ND	0.001	0.0002	10*
4,4'-DDE	ND	0.001	0.0001	10*
4,4'-DDT	ND	0.001	0.0001	10*
Dieldrin	ND	0.001	0.0002	10*
Endosulfan I	ND	0.001	0.0002	10*
Endosulfan II	ND	0.001	0.0002	10*
Endosulfan Sulfate	ND	0.001	0.0001	10*
Endrin	ND	0.001	0.0001	10*
Endrin Aldehyde	ND	0.001	0.0001	10*
Endrin Ketone	ND	0.001	0.0001	10*
Heptachlor Epoxide	ND	0.001	0.0001	10*
Heptachlor	ND	0.001	0.0001	10*
Methoxychlor	ND	0.001	0.0001	10*
Toxaphene	ND	0.020	0.0100	10*
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit


Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

\* = Actual detection limit raised due to matrix interference

Data Reviewed and Approved by:   
CAL-DHS CERTIFICATE # 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 11/04/16

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16

DATE EXTRACTED: 11/07/16

DATE ANALYZED: 11/07&08/16

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-9-0.5**

LAB I.D.: 161104-26

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	5*
alpha-BHC	ND	0.001	0.0001	5*
beta-BHC	ND	0.001	0.0001	5*
gamma-BHC (Lindane)	ND	0.001	0.0001	5*
delta-BHC	ND	0.001	0.0001	5*
alpha-Chlordane	ND	0.001	0.0001	5*
gamma-Chlordane	ND	0.001	0.0001	5*
Technical Chlordane	ND	0.005	0.0005	5*
4,4'-DDD	ND	0.001	0.0002	5*
4,4'-DDE	ND	0.001	0.0001	5*
4,4'-DDT	ND	0.001	0.0001	5*
Dieldrin	ND	0.001	0.0002	5*
Endosulfan I	ND	0.001	0.0002	5*
Endosulfan II	ND	0.001	0.0002	5*
Endosulfan Sulfate	ND	0.001	0.0001	5*
Endrin	ND	0.001	0.0001	5*
Endrin Aldehyde	ND	0.001	0.0001	5*
Endrin Ketone	ND	0.001	0.0001	5*
Heptachlor Epoxide	ND	0.001	0.0001	5*
Heptachlor	ND	0.001	0.0001	5*
Methoxychlor	ND	0.001	0.0001	5*
Toxaphene	ND	0.020	0.0100	5*
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

\* = Actual detection limit raised due to matrix interference

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

DATE RECEIVED: 11/04/16

MATRIX: SOIL

DATE EXTRACTED: 11/07/16

SAMPLING DATE: 11/04/16

DATE ANALYZED: 11/07/16

REPORT TO: MR. RICHARD ORR

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-9-1.0**

LAB I.D.: 161104-27

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	10*
alpha-BHC	ND	0.001	0.0001	10*
beta-BHC	ND	0.001	0.0001	10*
gamma-BHC (Lindane)	ND	0.001	0.0001	10*
delta-BHC	ND	0.001	0.0001	10*
alpha-Chlordane	ND	0.001	0.0001	10*
gamma-Chlordane	ND	0.001	0.0001	10*
Technical Chlordane	ND	0.005	0.0005	10*
4,4'-DDD	ND	0.001	0.0002	10*
4,4'-DDE	ND	0.001	0.0001	10*
4,4'-DDT	ND	0.001	0.0001	10*
Dieldrin	ND	0.001	0.0002	10*
Endosulfan I	ND	0.001	0.0002	10*
Endosulfan II	ND	0.001	0.0002	10*
Endosulfan Sulfate	ND	0.001	0.0001	10*
Endrin	ND	0.001	0.0001	10*
Endrin Aldehyde	ND	0.001	0.0001	10*
Endrin Ketone	ND	0.001	0.0001	10*
Heptachlor Epoxide	ND	0.001	0.0001	10*
Heptachlor	ND	0.001	0.0001	10*
Methoxychlor	ND	0.001	0.0001	10*
Toxaphene	ND	0.020	0.0100	10*
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF


PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

\* = Actual detection limit raised due to matrix interference

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555





### LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 11/04/16

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16

DATE EXTRACTED: 11/07/16

DATE ANALYZED: 11/07&08/16

DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-9-5.0**

LAB I.D.: 161104-30

**Organochlorine Pesticides & PCBs Analysis**

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL  
SAMPLING DATE: 11/04/16  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16  
DATE EXTRACTED: 11/07/16  
DATE ANALYZED: 11/07&08/16  
DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-8-0.5**

LAB I.D.: 161104-31

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	0.002	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555

  
\_\_\_\_\_



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL  
 SAMPLING DATE: 11/04/16  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16  
 DATE EXTRACTED: 11/07/16  
 DATE ANALYZED: 11/07&08/16  
 DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-8-1.0**

LAB I.D.: 161104-32

**Organochlorine Pesticides & PCBs Analysis**  
**Method: EPA 8081A/8082**  
**Unit: mg/Kg = Milligram per Kilogram = PPM**

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	0.001	0.001	0.0001	1
gamma-Chlordane	0.001	0.001	0.0001	1
Technical Chlordane	0.009	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	0.004	0.001	0.0001	1
4,4'-DDT	0.003	0.001	0.0001	1
Dieldrin	0.002	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: \_\_\_\_\_  
 CAL-DHS CERTIFICATE # 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
 10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
 Tel(909)484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL  
 SAMPLING DATE: 11/04/16  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16  
 DATE EXTRACTED: 11/07/16  
 DATE ANALYZED: 11/07&08/16  
 DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-8-2.5**

LAB I.D.: 161104-33

### Organochlorine Pesticides & PCBs Analysis


Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
 CAL-DHS CERTIFICATE # 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
**10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730**  
**Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com**

PROJECT: **603445-100**

MATRIX: SOIL  
 SAMPLING DATE: 11/04/16  
 REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16  
 DATE EXTRACTED: 11/07/16  
 DATE ANALYZED: 11/07&08/16  
 DATE REPORTED: 11/11/16

SAMPLE I.D.: **R8-3.0**

LAB I.D.: 161104-34

### Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
 MDL = Method Detection Limit  
 Actual Detection Limit = PQL X DF  
 PQL = Practical Quantitation Limit  
 J = Trace Concentration between MDL and PQL  
 ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by: \_\_\_\_\_  
 CAL-DHS CERTIFICATE # 1555

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL  
SAMPLING DATE: 11/04/16  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16  
DATE EXTRACTED: 11/07/16  
DATE ANALYZED: 11/08/16  
DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-7-0.5**

LAB I.D.: 161104-35

**Organochlorine Pesticides & PCBs Analysis**  
Method: EPA 8081A/8082  
Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	0.002	0.001	0.0001	1
gamma-Chlordane	0.002	0.001	0.0001	1
Technical Chlordane	0.019	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	0.001	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL  
SAMPLING DATE: 11/04/16  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16  
DATE EXTRACTED: 11/07/16  
DATE ANALYZED: 11/08/16  
DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-7-1.0**

LAB I.D.: 161104-36

**Organochlorine Pesticides & PCBs Analysis**  
Method: EPA 8081A/8082  
Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
MDL = Method Detection Limit  
Actual Detection Limit = PQL X DF  
PQL = Practical Quantitation Limit  
J = Trace Concentration between MDL and PQL  
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555

  
\_\_\_\_\_

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL  
SAMPLING DATE: 11/04/16  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16  
DATE EXTRACTED: 11/07/16  
DATE ANALYZED: 11/08/16  
DATE REPORTED: 11/11/16

SAMPLE I.D.: **RR-7-2.5**

LAB I.D.: 161104-37


**Organochlorine Pesticides & PCBs Analysis**  
Method: EPA 8081A/8082  
Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor  
MDL = Method Detection Limit  
Actual Detection Limit = PQL X DF  
PQL = Practical Quantitation Limit  
J = Trace Concentration between MDL and PQL  
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555

  
\_\_\_\_\_

### METHOD BLANK REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: SOIL

SAMPLING DATE: 11/04/16

REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16

DATE EXTRACTED: 11/07/16

DATE ANALYZED: 11/07/16

DATE REPORTED: 11/11/16

METHOD BLANK REPORT FOR LAB I.D.:

161104-23, -24, -25, -26, -27, -28, -30, -31, -32, -33, -34, -35, -36,  
-37

Organochlorine Pesticides & PCBs Analysis

Method: EPA 8081A/8082

Unit: mg/Kg = Milligram per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.001	0.0002	1
alpha-BHC	ND	0.001	0.0001	1
beta-BHC	ND	0.001	0.0001	1
gamma-BHC (Lindane)	ND	0.001	0.0001	1
delta-BHC	ND	0.001	0.0001	1
alpha-Chlordane	ND	0.001	0.0001	1
gamma-Chlordane	ND	0.001	0.0001	1
Technical Chlordane	ND	0.005	0.0005	1
4,4'-DDD	ND	0.001	0.0002	1
4,4'-DDE	ND	0.001	0.0001	1
4,4'-DDT	ND	0.001	0.0001	1
Dieldrin	ND	0.001	0.0002	1
Endosulfan I	ND	0.001	0.0002	1
Endosulfan II	ND	0.001	0.0002	1
Endosulfan Sulfate	ND	0.001	0.0001	1
Endrin	ND	0.001	0.0001	1
Endrin Aldehyde	ND	0.001	0.0001	1
Endrin Ketone	ND	0.001	0.0001	1
Heptachlor Epoxide	ND	0.001	0.0001	1
Heptachlor	ND	0.001	0.0001	1
Methoxychlor	ND	0.001	0.0001	1
Toxaphene	ND	0.020	0.0100	1
PCB-1016	ND	0.010	0.0050	1
PCB-1221	ND	0.010	0.0050	1
PCB-1232	ND	0.010	0.0050	1
PCB-1242	ND	0.010	0.0050	1
PCB-1248	ND	0.010	0.0050	1
PCB-1254	ND	0.010	0.0050	1
PCB-1260	ND	0.010	0.0050	1

**COMMENTS:**

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:

CAL-DHS CERTIFICATE # 1555



# Enviro-Chem, Inc.

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

## EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)**

Date Analyzed: 11/7-8/2016

Unit: **mg/Kg (ppm)**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.:      161103-25 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00556	<b>111%</b>	0.00599	<b>120%</b>	<b>7%</b>	<b>0-20%</b>	<b>70-130</b>
Aldrin	0.000	0.00500	0.00493	<b>99%</b>	0.00532	<b>106%</b>	<b>8%</b>	<b>0-20%</b>	<b>70-130</b>
4,4-DDE	0.000	0.00500	0.00460	<b>92%</b>	0.00461	<b>92%</b>	<b>0%</b>	<b>0-20%</b>	<b>70-130</b>

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00508	<b>102%</b>	<b>75-125</b>
Aldrin	0.00500	0.00548	<b>110%</b>	<b>75-125</b>
4,4-DDE	0.00500	0.00504	<b>101%</b>	<b>75-125</b>
Dieldrin	0.00500	0.00468	<b>94%</b>	<b>75-125</b>

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		MB	161103-17	161103-19	161103-21	161103-23	161103-25	161103-27	
Tetra-chloro-meta-xylene	50-150	109%	107%	112%	104%	114%	108%	105%	
Decachlorobiphenyl	50-150	66%	65%	60%	64%	70%	73%	59%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		161103-29	161103-31	161103-36	161103-37	161104-23	161104-24	161104-25	
Tetra-chloro-meta-xylene	50-150	111%	105%	109%	103%	92%	83%	103%	
Decachlorobiphenyl	50-150	60%	63%	60%	65%	62%	68%	70%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		161104-26	161104-27	161104-28	161104-30	161104-31	161104-32	161104-33	
Tetra-chloro-meta-xylene	50-150	102%	86%	108%	119%	110%	105%	132%	
Decachlorobiphenyl	50-150	93%	83%	56%	106%	76%	87%	134%	

S.R. = Sample Result

\* = Surrogate fail due to matrix interference (If Marked)

spk conc = Spike Concentration

**Note: LCS, MS, MSD are in control therefore results are in control.**

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: \_\_\_\_\_

Final Reviewer: \_\_\_\_\_



# Enviro-Chem, Inc.

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

## EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)**  
 Unit: **mg/Kg (ppm)**

Date Analyzed: **11/7-8/2016**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.:      161107-LCS1/2**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00528	<b>106%</b>	0.00496	<b>99%</b>	<b>6%</b>	<b>0-20%</b>	<b>70-130</b>
Aldrin	0.000	0.00500	0.00579	<b>116%</b>	0.00549	<b>110%</b>	<b>5%</b>	<b>0-20%</b>	<b>70-130</b>
4,4-DDE	0.000	0.00500	0.00518	<b>104%</b>	0.00574	<b>115%</b>	<b>10%</b>	<b>0-20%</b>	<b>70-130</b>

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00579	<b>116%</b>	<b>75-125</b>
Aldrin	0.00500	0.00444	<b>89%</b>	<b>75-125</b>
4,4-DDE	0.00500	0.00468	<b>94%</b>	<b>75-125</b>
Dieldrin	0.00500	0.00528	<b>106%</b>	<b>75-125</b>

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		<b>MB</b>	<b>161104-34</b>	<b>161104-35</b>	<b>161104-36</b>	<b>161104-37</b>			
Tetra-chloro-meta-xylene	50-150	<b>121%</b>	75%	93%	99%	92%			
Decachlorobiphenyl	50-150	<b>60%</b>	121%	70%	67%	80%			

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene	50-150								
Decachlorobiphenyl	50-150								

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene	50-150								
Decachlorobiphenyl	50-150								

S.R. = Sample Result

\* = Surrogate fail due to matrix interference (If Marked)

spk conc = Spike Concentration

**Note: LCS, MS, MSD are in control therefore results are in control.**

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: \_\_\_\_\_

Final Reviewer: \_\_\_\_\_

# QA/QC Report

## Analysis: EPA 8082 (PCB)

Matrix: **Soil/Solid/Liquid/Sludge**

Date Analyzed: **11/7-8/2016**

Unit: **mg/Kg (PPM)**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

Spiked Sample Lab I.D.: **161104-23 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP % RPD	ACP %REC
PCB (1016+1260)	0.00	0.100	0.083	<b>83%</b>	0.084	<b>84%</b>	<b>1%</b>	<b>0-20%</b>	<b>70-130</b>

**LCS STD RECOVERY:**

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.085	<b>85%</b>	<b>75-125</b>

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

## LABORATORY REPORT

CUSTOMER: **Leighton & Associates, Inc.**  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com

PROJECT: **603445-100**

MATRIX: WATER  
SAMPLING DATE: 11/04/16  
REPORT TO: MR. RICHARD ORR

DATE RECEIVED: 11/04/16  
DATE EXTRACTED: 11/04/16  
DATE ANALYZED: 11/08&09/16  
DATE REPORTED: 11/11/16

SAMPLE I.D.: **100-1**

LAB I.D.: 161104-29

### Organochlorine Pesticides Analysis


Method: EPA 8081A

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1
PCB-1016	ND	1.00	0.50	1
PCB-1221	ND	1.00	0.50	1
PCB-1232	ND	1.00	0.50	1
PCB-1242	ND	1.00	0.50	1
PCB-1248	ND	1.00	0.50	1
PCB-1254	ND	1.00	0.50	1
PCB-1260	ND	1.00	0.50	1

#### COMMENTS

DF = Dilution Factor  
MDL = Method Detection Limit  
Actual Detection Limit = PQL X DF  
PQL = Practical Quantitation Limit  
J = Trace Concentration between MDL and PQL  
ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:   
CAL-DHS CERTIFICATE # 1555

## METHOD BLANK REPORT

CUSTOMER: Leighton & Associates, Inc.  
10532 Acacia, Suite B-6, Rancho Cucamonga, CA 91730  
Tel (909) 484-2205 E-Mail: Rorr@Leightongroup.com  
PROJECT: 603445-100

MATRIX: WATER  
SAMPLING DATE: 11/04/16  
REPORT TO: MR. RICHARD ORR  
DATE RECEIVED: 11/04/16  
DATE EXTRACTED: 11/04/16  
DATE ANALYZED: 11/08&09/16  
DATE REPORTED: 11/11/16

METHOD BLANK REPORT FOR LAB I.D.: 161104-29

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	MDL	DF
Aldrin	ND	0.100	0.0157	1
alpha-BHC	ND	0.100	0.0151	1
beta-BHC	ND	0.100	0.0133	1
gamma-BHC (Lindane)	ND	0.100	0.0119	1
delta-BHC	ND	0.100	0.0180	1
alpha-Chlordane	ND	0.100	0.0154	1
gamma-Chlordane	ND	0.100	0.0140	1
Total Chlordane	ND	0.500	0.050	1
4,4'-DDD	ND	0.100	0.0217	1
4,4'-DDE	ND	0.100	0.0175	1
4,4'-DDT	ND	0.100	0.0115	1
Dieldrin	ND	0.100	0.0164	1
Endosulfan I	ND	0.100	0.0152	1
Endosulfan II	ND	0.100	0.0146	1
Endosulfan Sulfate	ND	0.100	0.0121	1
Endrin	ND	0.100	0.0146	1
Endrin Aldehyde	ND	0.100	0.0163	1
Endrin Ketone	ND	0.100	0.0138	1
Heptachlor Epoxide	ND	0.100	0.0170	1
Heptachlor	ND	0.100	0.0170	1
Methoxychlor	ND	0.100	0.0125	1
Toxaphene	ND	2.00	1.00	1
PCB-1016	ND	1.00	0.50	1
PCB-1221	ND	1.00	0.50	1
PCB-1232	ND	1.00	0.50	1
PCB-1242	ND	1.00	0.50	1
PCB-1248	ND	1.00	0.50	1
PCB-1254	ND	1.00	0.50	1
PCB-1260	ND	1.00	0.50	1

#### COMMENTS

DF = Dilution Factor

MDL = Method Detection Limit

Actual Detection Limit = PQL X DF

PQL = Practical Quantitation Limit

J = Trace Concentration between MDL and PQL

ND = Below the Actual Detection Limit or non-detected

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



**Enviro-Chem, Inc.**

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

**EPA 608 QA/QC Report**

+ 8081 A

Matrix: **Water/Liquid**

Date Analyzed: 11/9/2016

Unit: ug/L

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.:** 161109-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0	0.500	0.540	108%	0.542	108%	0%	0-20%	70-130
Aldrin	0	0.500	0.496	99%	0.452	90%	9%	0-20%	70-130
4,4-DDE	0	0.500	0.479	96%	0.446	89%	7%	0-20%	70-130

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.500	0.580	116%	75-125
Aldrin	0.500	0.507	101%	75-125
4,4-DDE	0.500	0.583	117%	75-125
Dieldrin	0.500	0.548	110%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
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<b>Sample I.D.</b>		M-BLK	161104-29						
Tetra-chloro-meta-xylene	50-150	95%	136%						
Decachlorobipneyl	50-150	105%	70%						

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
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<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene									
Decachlorobipneyl									

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
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<b>Sample I.D.</b>						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

\* = Surrogate fail due to matrix interference

Note: LCS, MS, MSD are in control therefore results are in control.

Final Reviewer: \_\_\_\_\_

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

## QA/QC Report

Analysis: EPA 608 (PCB)

78082

Matrix: Water/Liquid

Date Analyzed: 11/8/2016

Unit: ug/L (PPB)

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 161104-29 MS/MSD

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP % RPD	ACP %REC
PCB (1016+1260)	0	10.0	9.12	91%	9.95	100%	9%	0-20%	70-130

LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	10.0	10.9	109%	75-125

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)
- Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
		DATE	TIME									
RR-10-0.5	161104-23	11/4/16	0825	soil	2		ice	X	X	X	X	
RR-10-1.0	-24		0845				ice	X	X	X	X	
RR-10-2.5	-25		0917					X	X	X	X	
RR-9-0.5	-26		0833					X	X	X	X	
RR-9-1.0	-27		0850					X	X	X	X	
RR-9-2.5	-28		0921					X	X	X	X	
100-1	-29		0944	water	5	4XLA	HNO3 TCC	X	X	X	X	
RR-9-9.0	-30		0922	soil	2		ice	X	X	X	X	
RR-8-0.5	-31		0955					X	X	X	X	
RR-8-1.0	-32		1610					X	X	X	X	
RR-8-2.5	-33		1040					X	X	X	X	
R-8-3.0	-34		1048					X	X	X	X	
RR-7-0.5	-35		1002					X	X	X	X	
RR-7-1.0	-36		1011					X	X	X	X	
RR-7-2.5	-37		1032					X	X	X	X	

60108/1471A  
8081A/808Z  
8015A  
8310

Misc./PO#

Company Name:

Leighton Consulting

Address:

10532 Acacia St Ste B6

City/State/Zip:

Rancho Cucamonga, CA 91730

Project Contact:

Richard Orr

Tel:

(909) 484-2205

Fax/Email:

(909) 484-2170

Sampler's Signature:

Project Name/ID:

603445-100

Relinquished by:

[Signature]

Received by:

[Signature]

Date & Time:

11/4/16 1230

Instructions for Sample Storage After Analysis:

Dispose of  Return to Client  Store (30 Days)

Other:

Relinquished by:

Received by:

Date & Time:

Relinquished by:

Received by:

Date & Time:

**CHAIN OF CUSTODY RECORD**

Date:

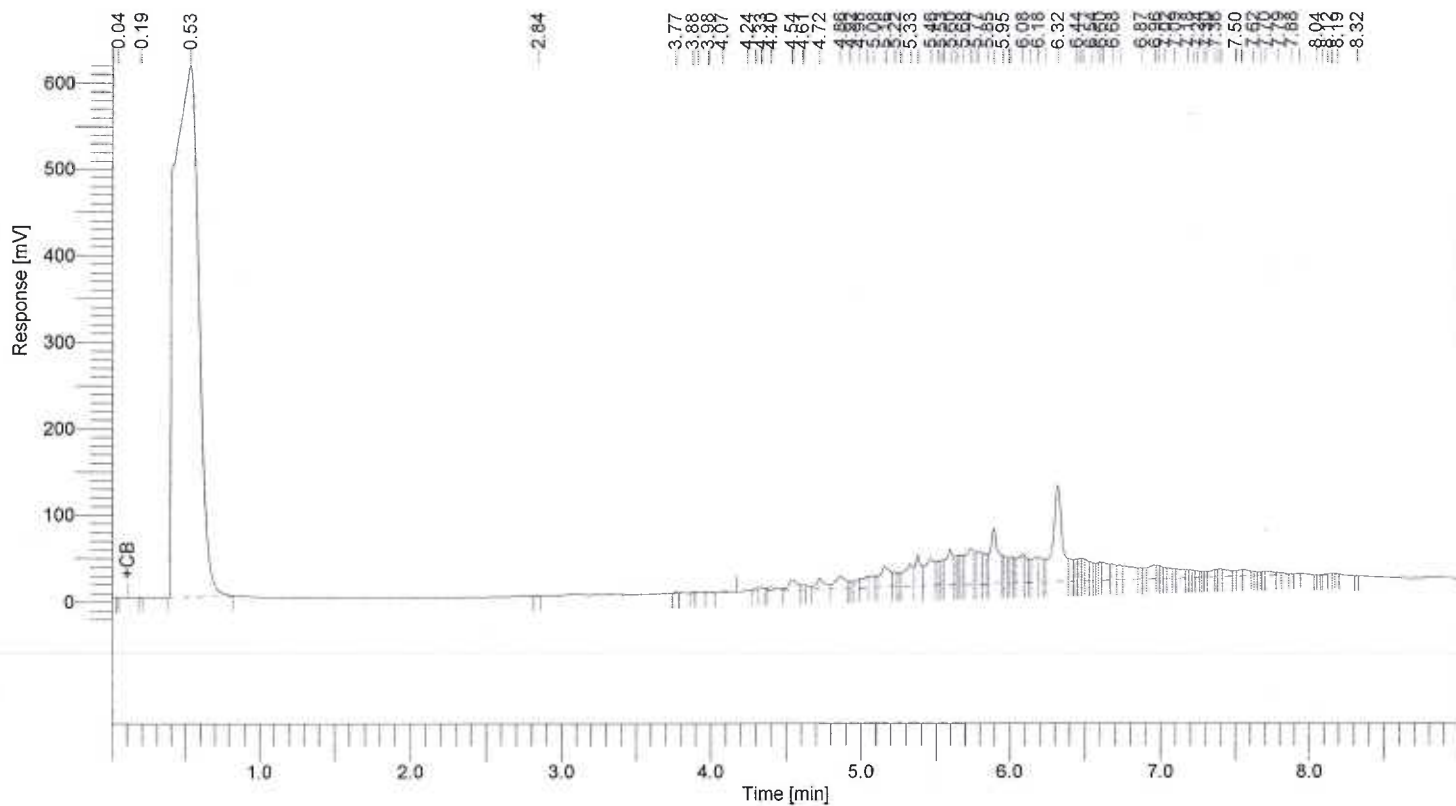
11/4/16

WHITE WITH SAMPLE • YELLOW TO CLIENT

Software Version : 6.3.2.0646  
 Sample Name : 161104-23 20/2  
 Instrument Name : GC-I  
 Rack/Vial : 0/20  
 Sample Amount : 1.000000  
 Cycle : 28

Date : 11/10/2016 12:43:58 PM  
 Data Acquisition Time : 11/8/2016 9:48:36 PM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

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 Sequence File : D:\GC DATA\GC-1102016\1611\161108\161108.seq



## 8015 Results

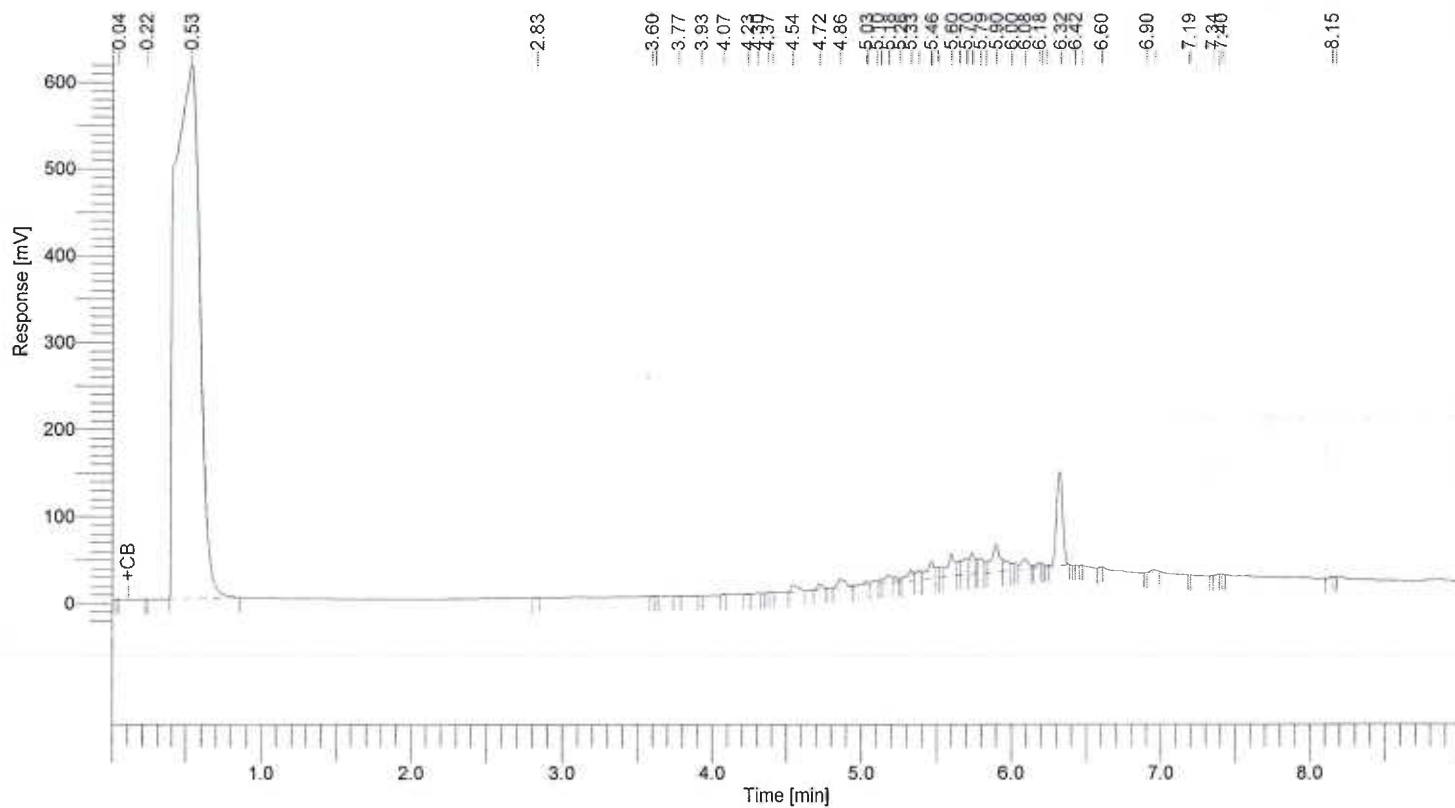
Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	899	90.0
C11-C22	238961	72.3
C23-C35	2820031	396.9
	3059891	559.2



Software Version : 6.3.2.0646  
 Sample Name : 161104-24 20/2  
 Instrument Name : GC-I  
 Rack/Vial : 0/21  
 Sample Amount : 1.000000  
 Cycle : 29

Date : 11/10/2016 12:44:02 PM  
 Data Acquisition Time : 11/8/2016 10:00:36 PM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-1102016\1611\161108\A029.rst  
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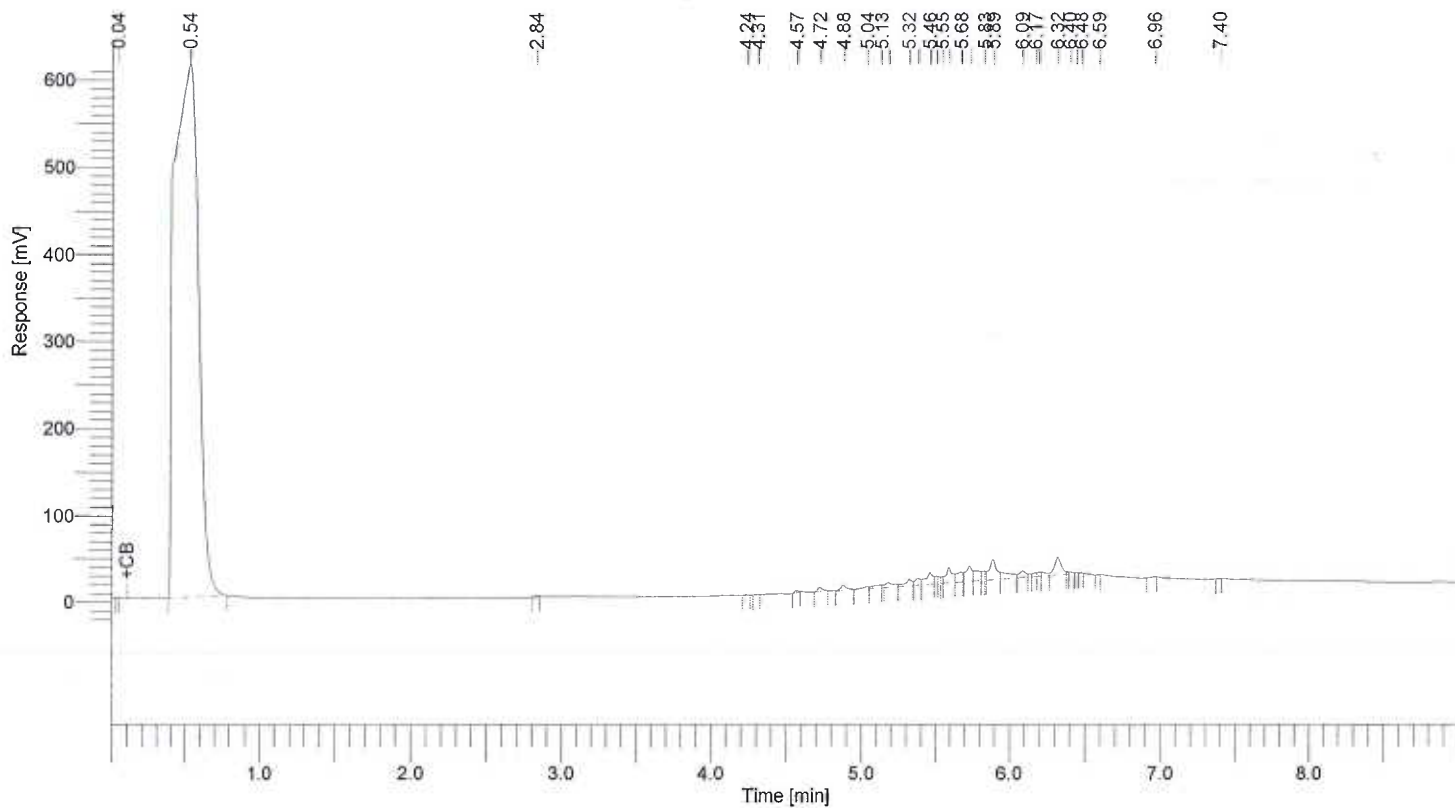
## 8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	1241	90.0
C11-C22	76701	59.9
C23-C35	1006848	183.9
	1084790	333.8

Software Version : 6.3.2.0646  
 Sample Name : 161104-25 20/2  
 Instrument Name : GC-I  
 Rack/Vial : 0/22  
 Sample Amount : 1.000000  
 Cycle : 30

Date : 11/10/2016 12:44:06 PM  
 Data Acquisition Time : 11/8/2016 10:12:35 PM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-NO2016\1611\161108\A030.rst  
 Sequence File : D:\GC DATA\GC-NO2016\1611\161108\161108.seq



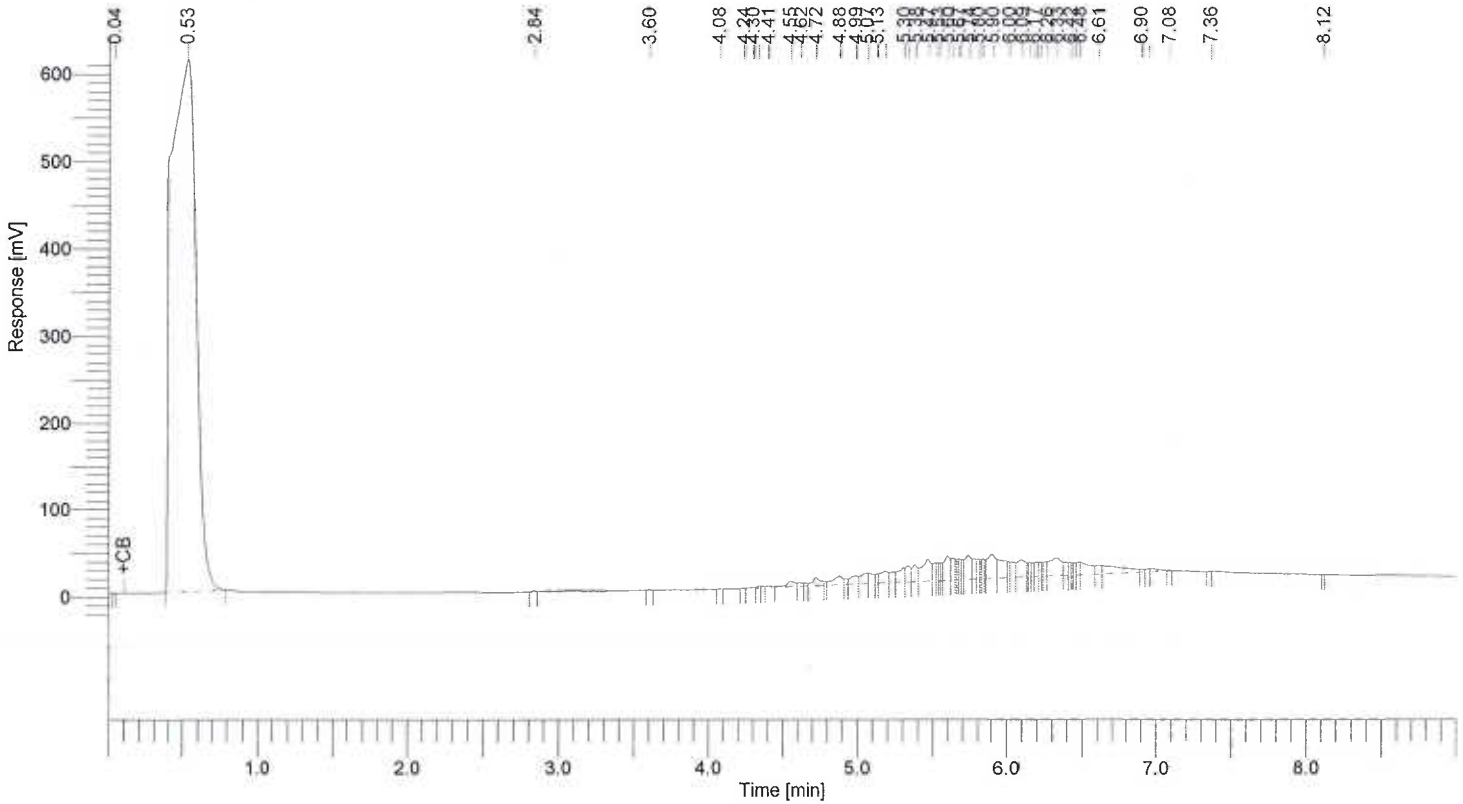
## 8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	1729	90.1
C11-C22	31762	56.4
C23-C35	494579	123.7
	528070	270.2

Software Version : 6.3.2.0646  
 Sample Name : 161104-26 20/2  
 Instrument Name : GC-I  
 Rack/Vial : 0/23  
 Sample Amount : 1.000000  
 Cycle : 31

Date : 11/10/2016 12:44:10 PM  
 Data Acquisition Time : 11/8/2016 10:24:35 PM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-1102016\1611\161108\A031.rst  
 Sequence File : D:\GC DATA\GC-1102016\1611\161108\161108.seq



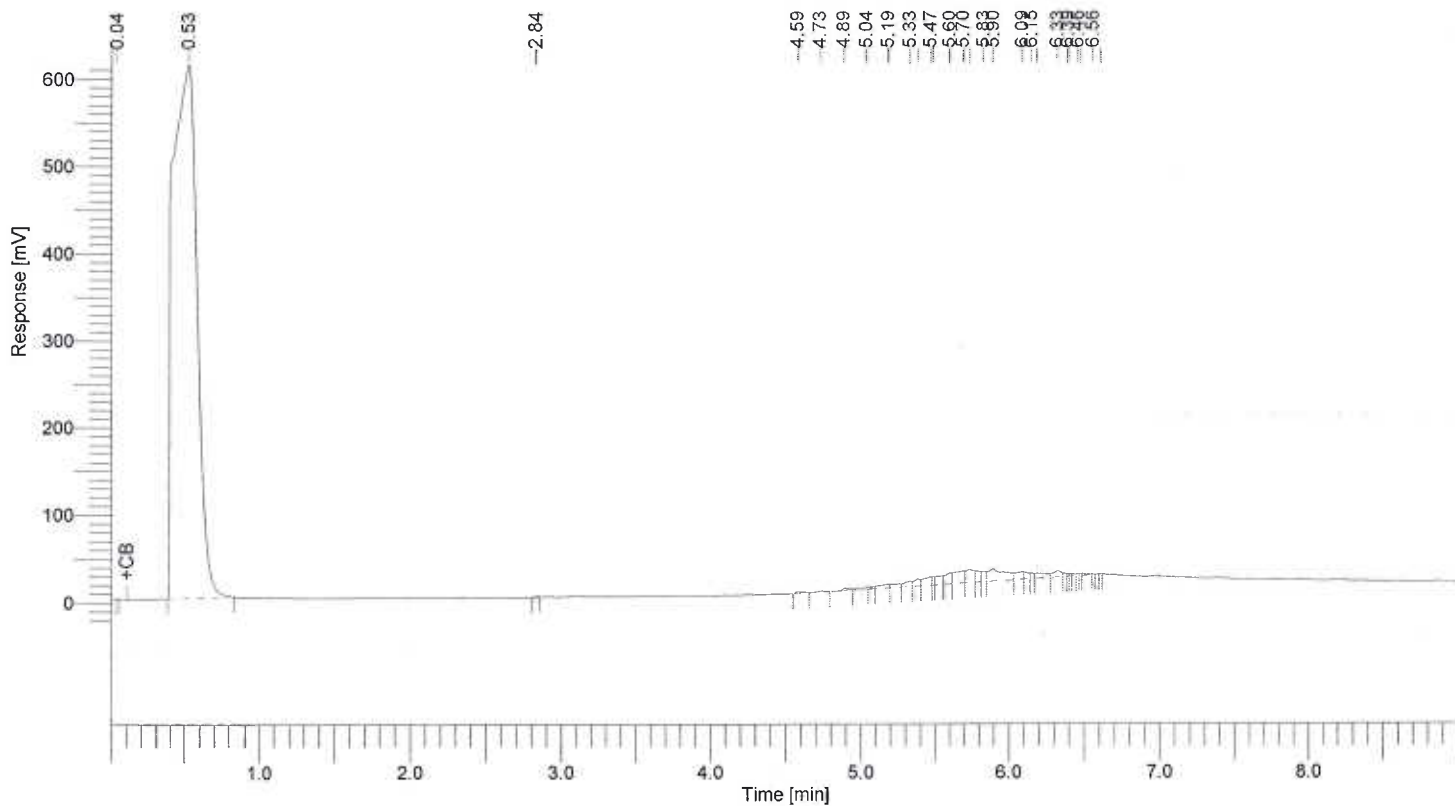
8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	1674	90.1
C11-C22	160230	66.2
C23-C35	1247655	212.2
	1409560	368.5

Software Version : 6.3.2.0646  
 Sample Name : 161104-27 20/2  
 Instrument Name : GC-I  
 Rack/Vial : 0/24  
 Sample Amount : 1.000000  
 Cycle : 32

Date : 11/10/2016 12:44:14 PM  
 Data Acquisition Time : 11/8/2016 10:36:34 PM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-1102016\1611\161108\A032.rst  
 Sequence File : D:\GC DATA\GC-1102016\1611\161108\161108.seq



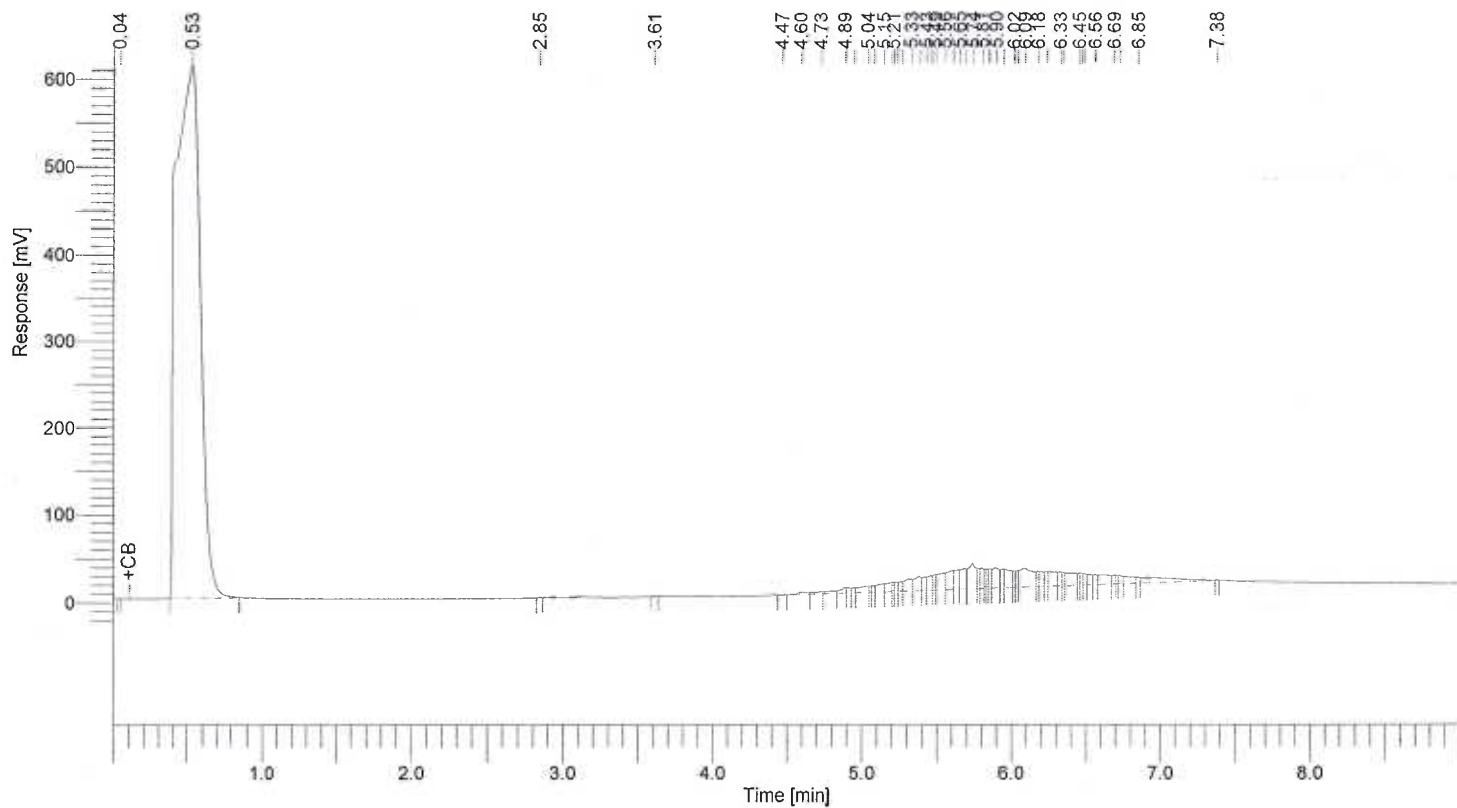
8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	1246	90.0
C11-C22	18639	55.4
C23-C35	502306	124.6
	522190	270.1

Software Version : 6.3.2.0646  
 Sample Name : 161104-28 20/2  
 Instrument Name : GC-I  
 Rack/Vial : 0/25  
 Sample Amount : 1.000000  
 Cycle : 34

Date : 11/10/2016 12:44:52 PM  
 Data Acquisition Time : 11/8/2016 11:00:42 PM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-1102016\1611\161108\A034.rst  
 Sequence File : D:\GC DATA\GC-1102016\1611\161108\161108.seq



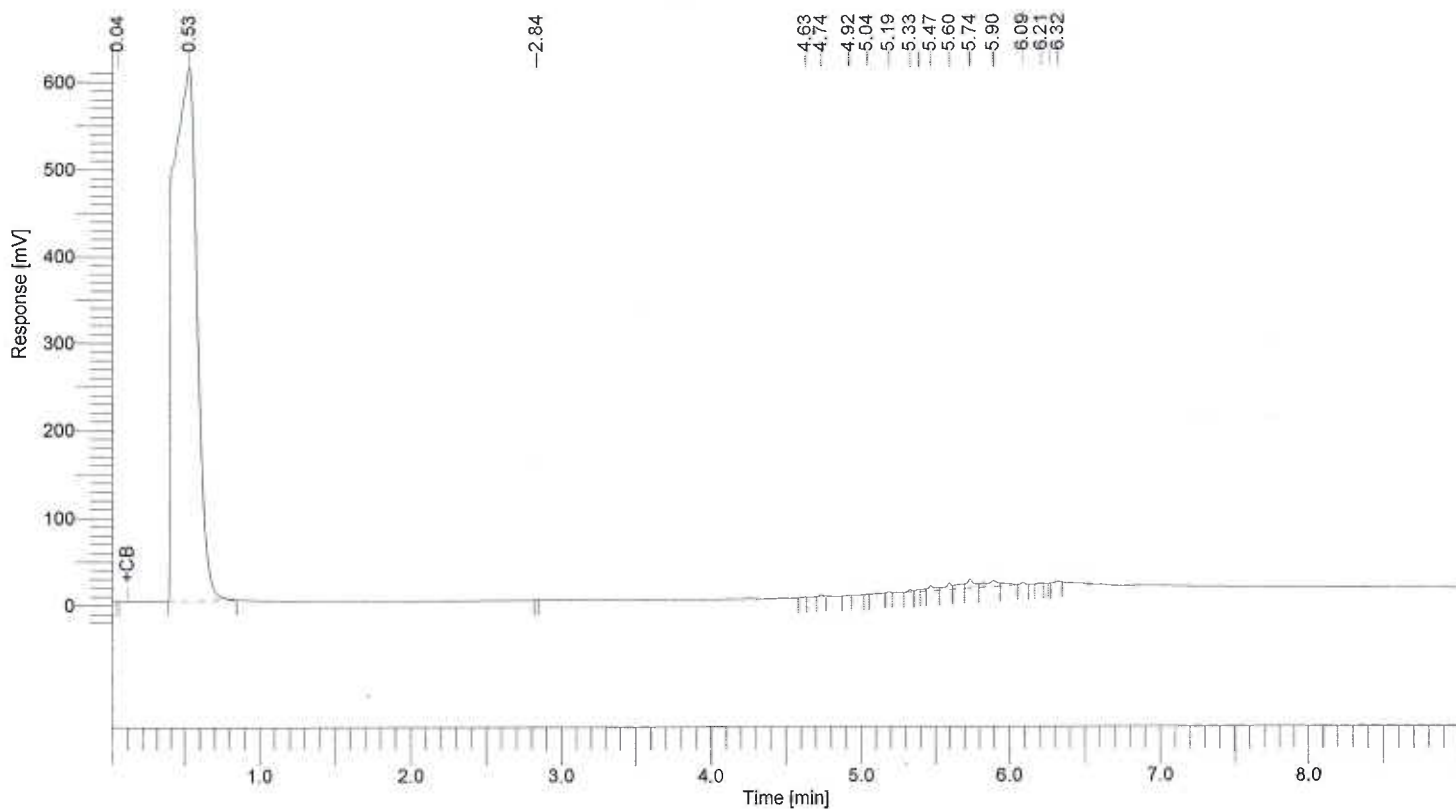
8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	820	90.0
C11-C22	48817	57.7
C23-C35	1191217	205.6
	1240853	353.3

Software Version : 6.3.2.0646  
 Sample Name : 161104-30 20/2  
 Instrument Name : GC-I  
 Rack/Vial : 0/26  
 Sample Amount : 1.000000  
 Cycle : 35

Date : 11/10/2016 12:44:55 PM  
 Data Acquisition Time : 11/8/2016 11:12:52 PM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-1102016\1611\161108\A035.rst  
 Sequence File : D:\GC DATA\GC-1102016\1611\161108\161108.seq



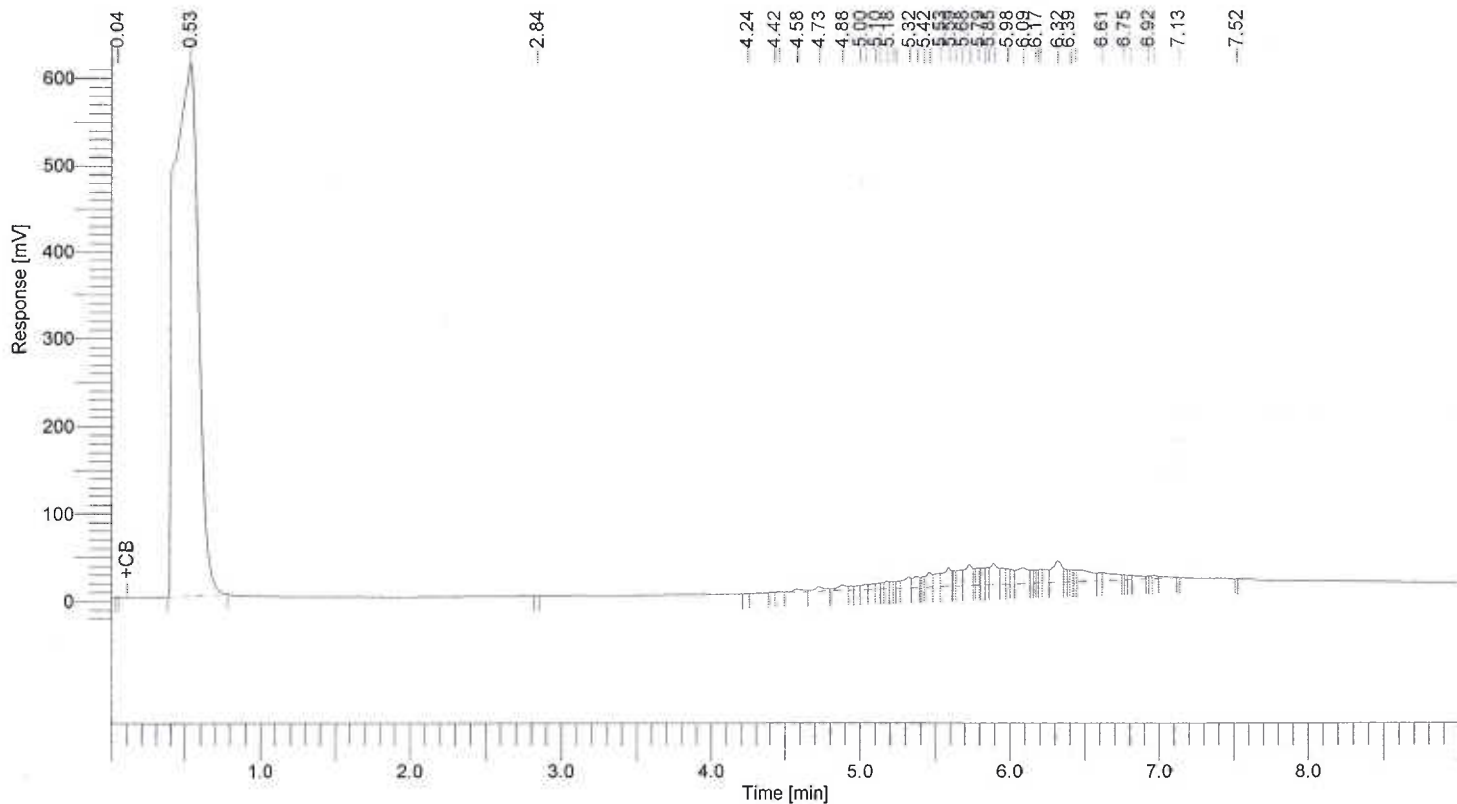
## 8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	395	89.9
C11-C22	4198	54.3
C23-C35	137142	81.7
	141736	225.9

Software Version : 6.3.2.0646  
 Sample Name : 161104-31 20/2  
 Instrument Name : GC-1  
 Rack/Vial : 0/27  
 Sample Amount : 1.000000  
 Cycle : 36

Date : 11/10/2016 12:44:58 PM  
 Data Acquisition Time : 11/8/2016 11:25:00 PM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-1\02016\1611\161108\A036.rst  
 Sequence File : D:\GC DATA\GC-1\02016\1611\161108\161108.seq



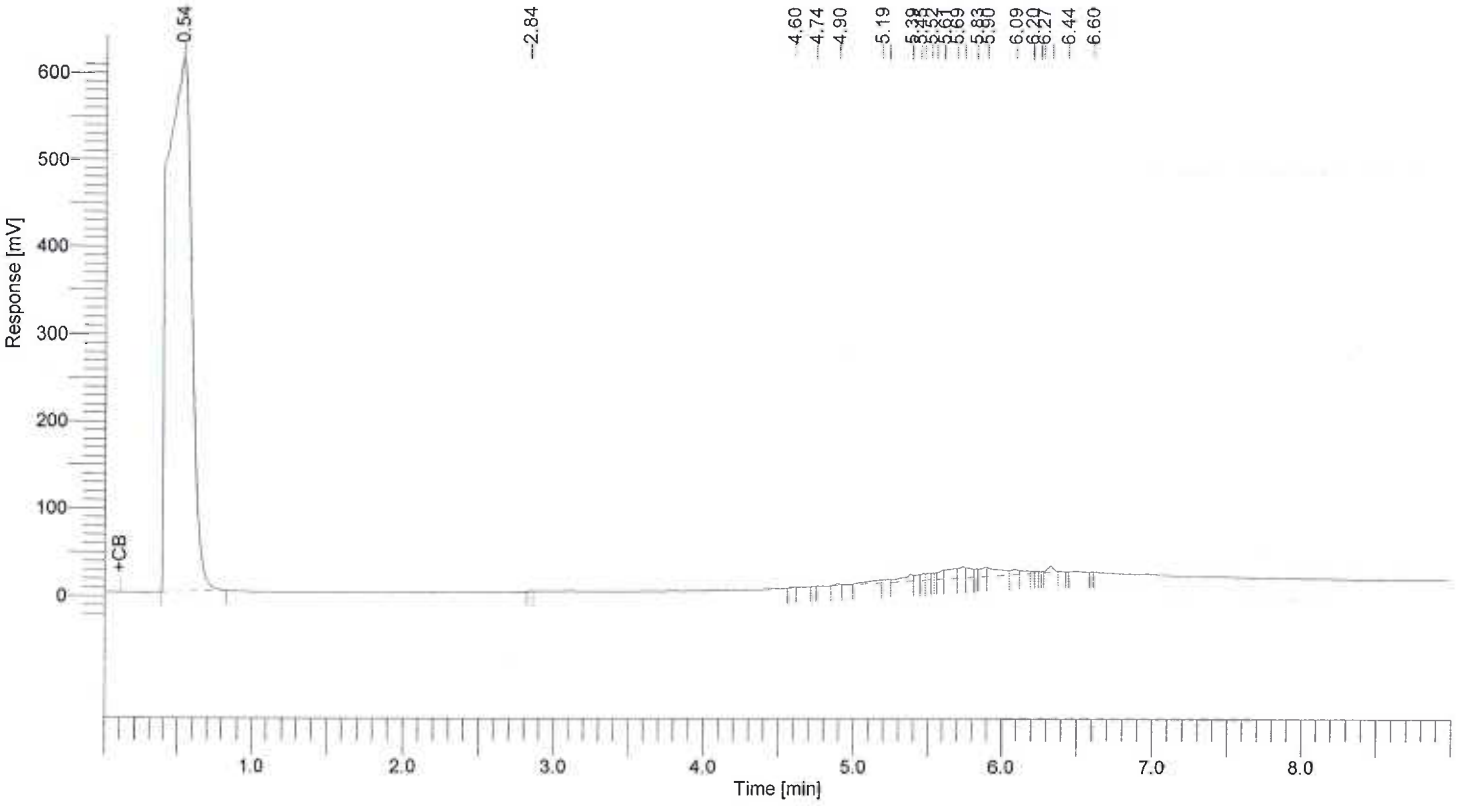
8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	396	89.9
C11-C22	84577	60.5
C23-C35	1047307	188.7
	1132280	339.0

Software Version : 6.3.2.0646  
 Sample Name : 161104-32 20/2  
 Instrument Name : GC-I  
 Rack/Vial : 0/28  
 Sample Amount : 1.000000  
 Cycle : 37

Date : 11/10/2016 12:45:00 PM  
 Data Acquisition Time : 11/8/2016 11:37:08 PM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-NO2016\1611\161108\A037.rst  
 Sequence File : D:\GC DATA\GC-NO2016\1611\161108\161108.seq



8015 Results

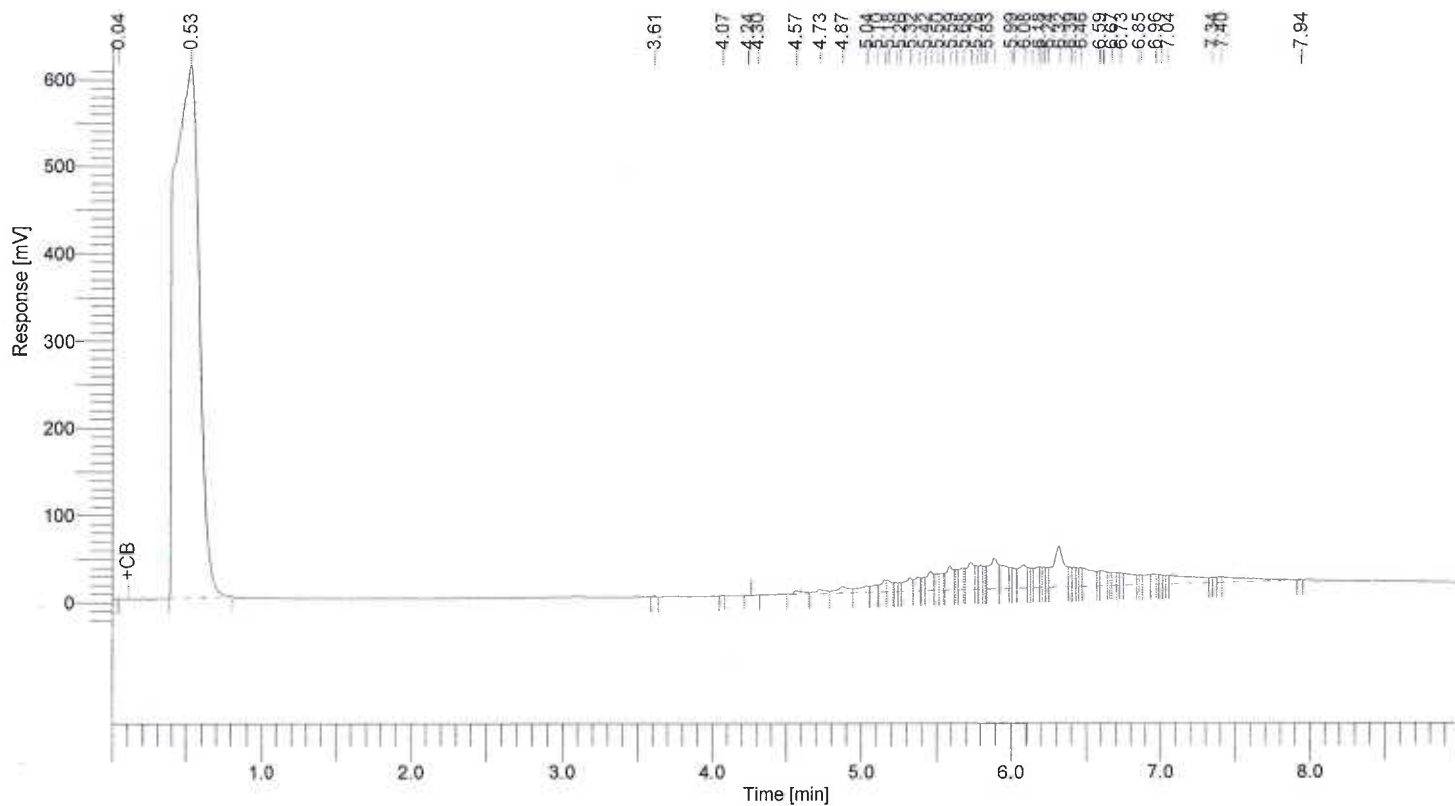
Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	677	89.9
C11-C22	7463	54.5
C23-C35	335406	105.0
	343546	249.5



Software Version : 6.3.2.0646  
 Sample Name : 161104-33 20/2  
 Instrument Name : GC-I  
 Rack/Vial : 0/29  
 Sample Amount : 1.000000  
 Cycle : 38

Date : 11/10/2016 12:45:03 PM  
 Data Acquisition Time : 11/8/2016 11:49:17 PM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-IN02016\1611\161108\A038.rst  
 Sequence File : D:\GC DATA\GC-IN02016\1611\161108\161108.seq



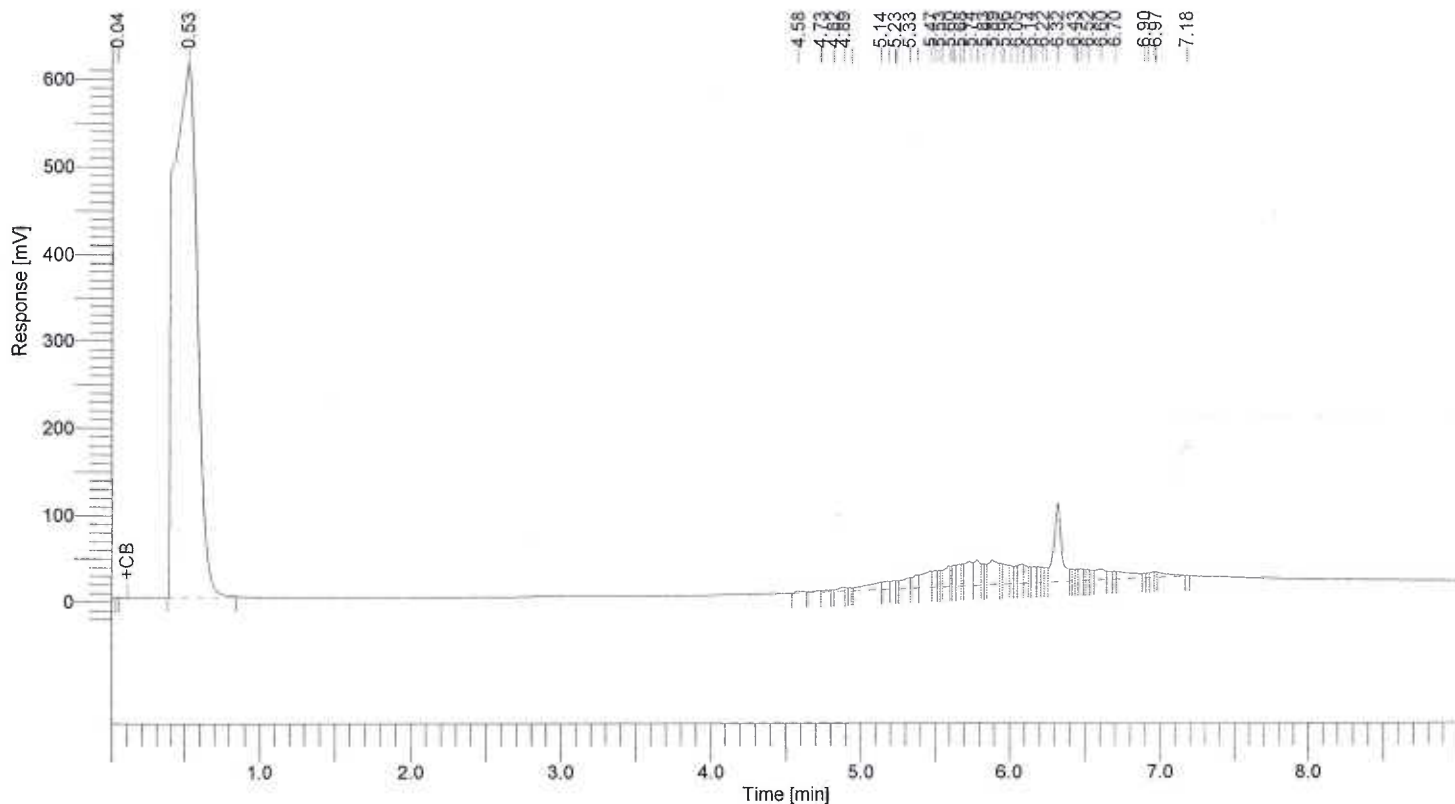
## 8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C11-C22	90411	60.9
C23-C35	1795789	276.6
	1886201	337.5

Software Version : 6.3.2.0646  
 Sample Name : 161104-34 20/2  
 Instrument Name : GC-1  
 Rack/Vial : 0/30  
 Sample Amount : 1.000000  
 Cycle : 39

Date : 11/10/2016 12:45:06 PM  
 Data Acquisition Time : 11/9/2016 12:01:24 AM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-IN02016\1611\161108\A039.rst  
 Sequence File : D:\GC DATA\GC-IN02016\1611\161108\161108.seq



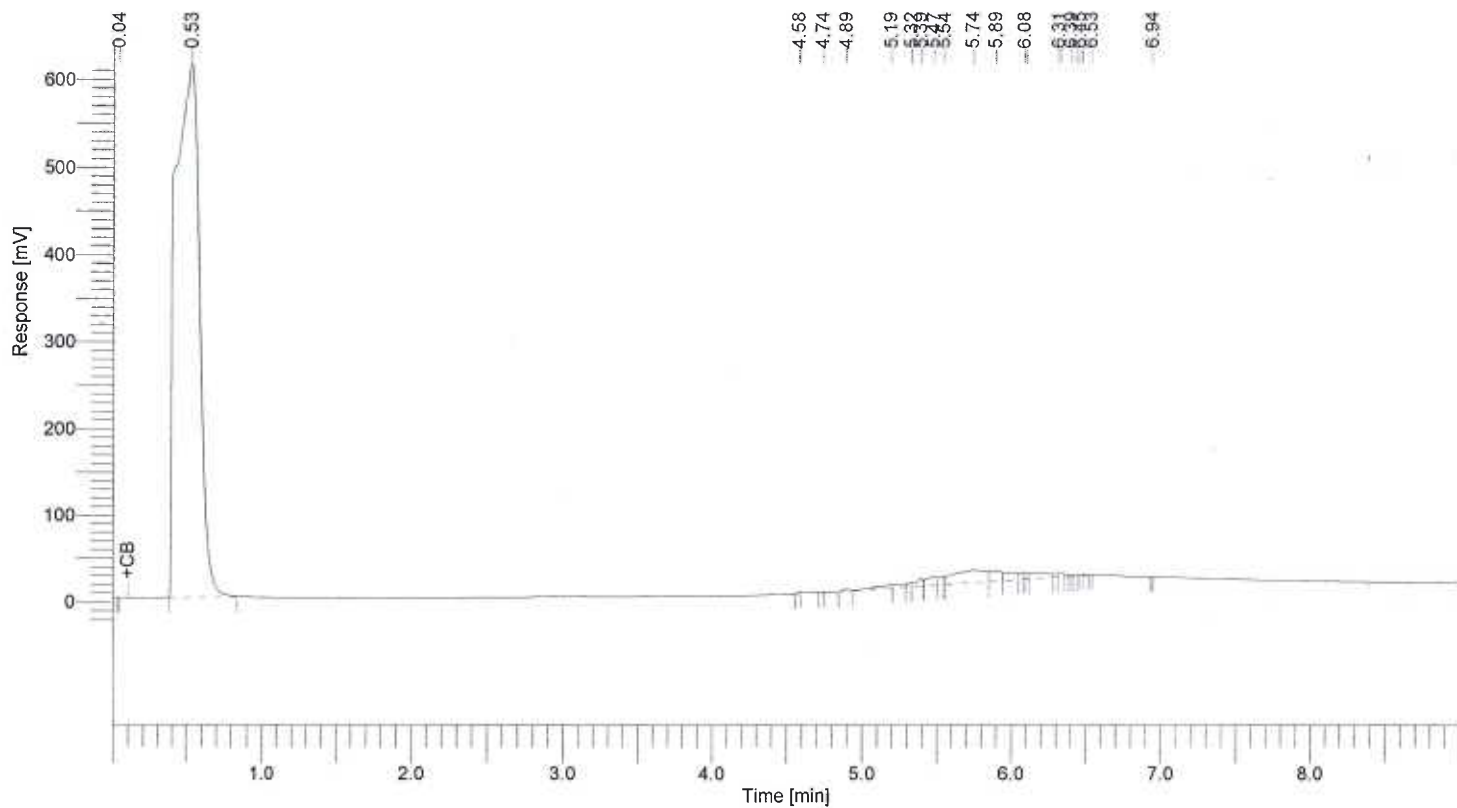
8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C11-C22	36080	56.7
C23-C35	1711225	266.7
	1747305	323.4

Software Version : 6.3.2.0646  
 Sample Name : 161104-35 20/2  
 Instrument Name : GC-I  
 Rack/Vial : 0/31  
 Sample Amount : 1.000000  
 Cycle : 40

Date : 11/10/2016 12:45:13 PM  
 Data Acquisition Time : 11/9/2016 12:13:29 AM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-1102016\1611\161108\A040.rst  
 Sequence File : D:\GC DATA\GC-1102016\1611\161108\161108.seq



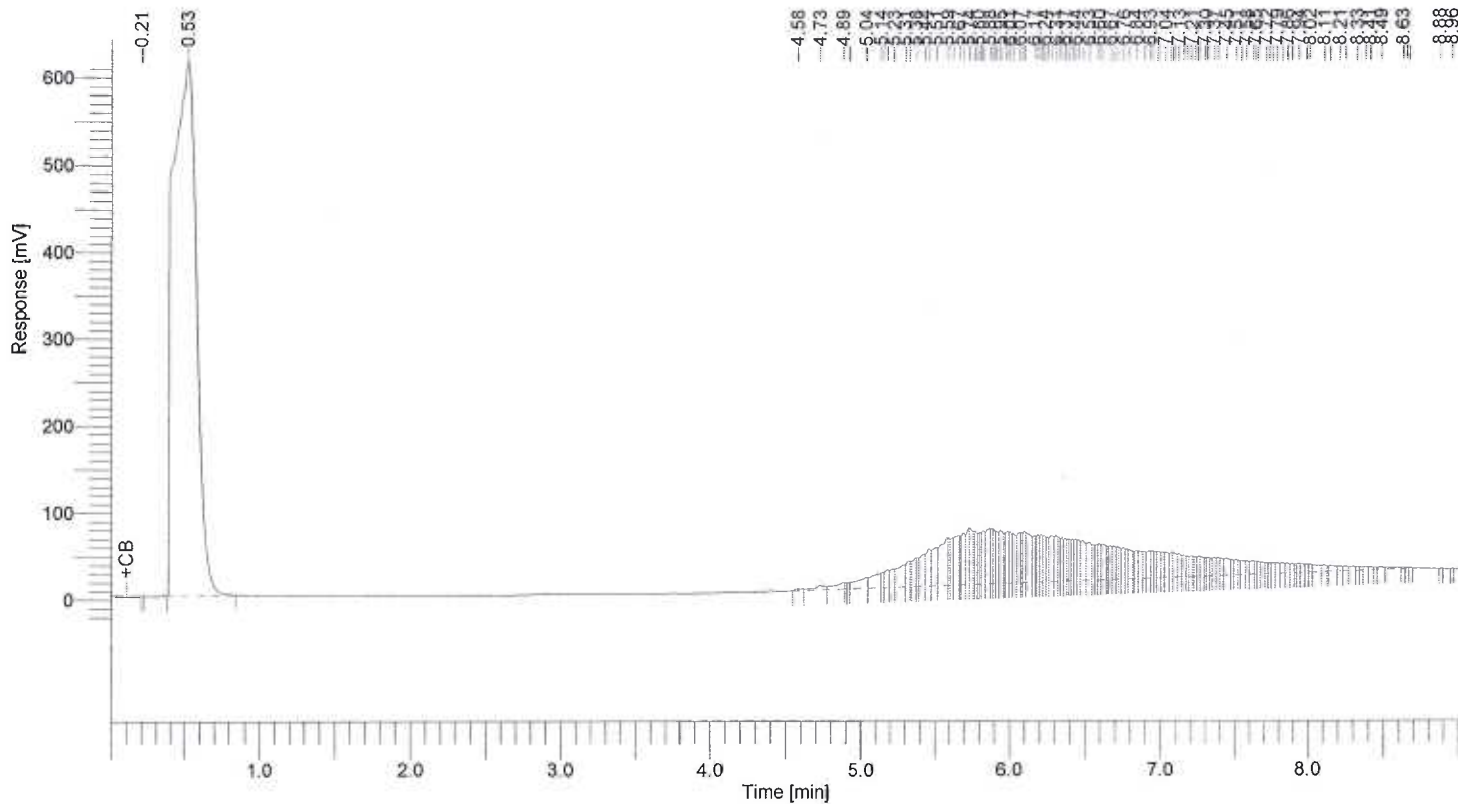
8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C11-C22	8390	54.6
C23-C35	462998	120.0
	471388	174.6

Software Version : 6.3.2.0646  
 Sample Name : 161104-36 20/2\*\*\*  
 Instrument Name : GC-I  
 Rack/Vial : 0/32  
 Sample Amount : 1.000000  
 Cycle : 41

Date : 11/10/2016 12:45:15 PM  
 Data Acquisition Time : 11/9/2016 12:25:33 AM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-1102016\1611\161108\A041.rst  
 Sequence File : D:\GC DATA\GC-1102016\1611\161108\161108.seq



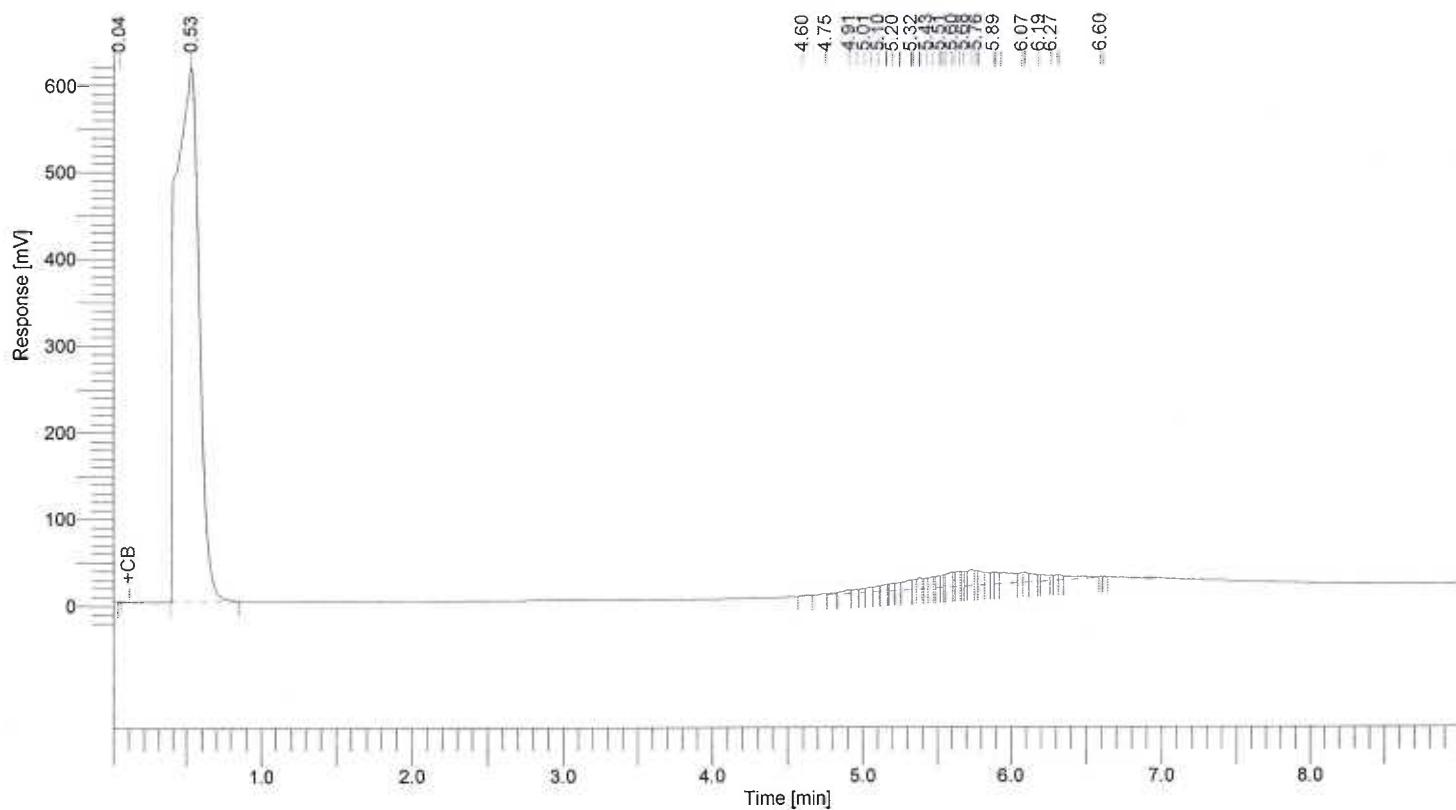
8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C11-C22	74660	59.7
C23-C35	5283158	686.3
	5357818	746.0

Software Version : 6.3.2.0646  
 Sample Name : 161104-37 20/2  
 Instrument Name : GC-1  
 Rack/Vial : 0/33  
 Sample Amount : 1.000000  
 Cycle : 44

Date : 11/10/2016 12:45:36 PM  
 Data Acquisition Time : 11/9/2016 1:01:30 AM  
 Channel : A  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-1\02016\1611\161108\A044.rst  
 Sequence File : D:\GC DATA\GC-1\02016\1611\161108\161108.seq



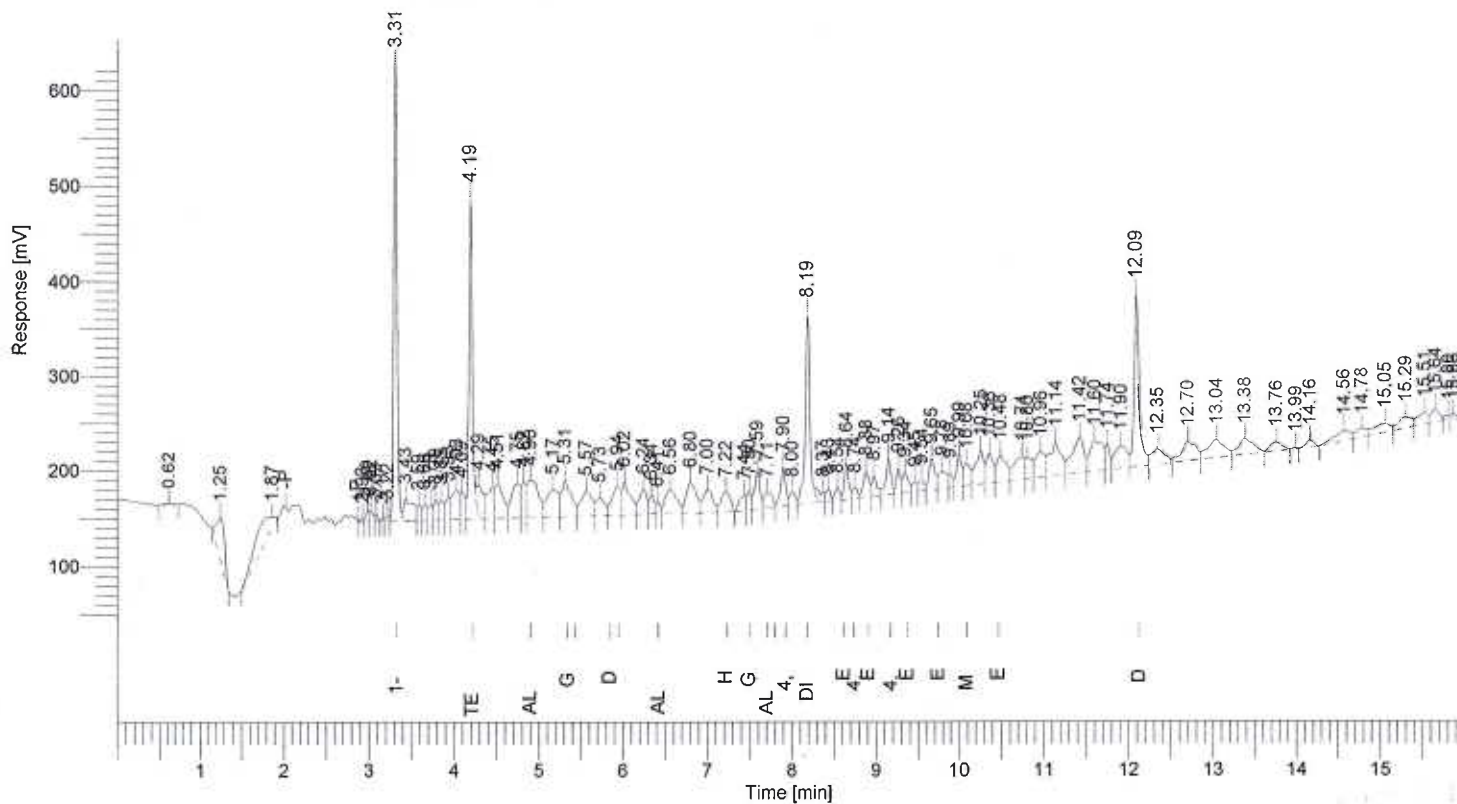
## 8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C11-C22	42789	57.3
C23-C35	702985	148.2
	745774	205.5

Software Version : 6.3.2.0646  
 Sample Name : 161104-23 20/10 RE  
 Instrument Name : GC-J  
 Rack/Vial : 0/9  
 Sample Amount : 1.000000  
 Cycle : 1

Date : 11/11/2016 8:04:13 AM  
 Data Acquisition Time : 11/10/2016 4:55:42 PM  
 Channel : B  
 Operator : manager  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-JJ02016\J16111\J161110\B013.rst  
 Sequence File : D:\GC DATA\GC-JJ02016\J16111\J161110\J161110.seq



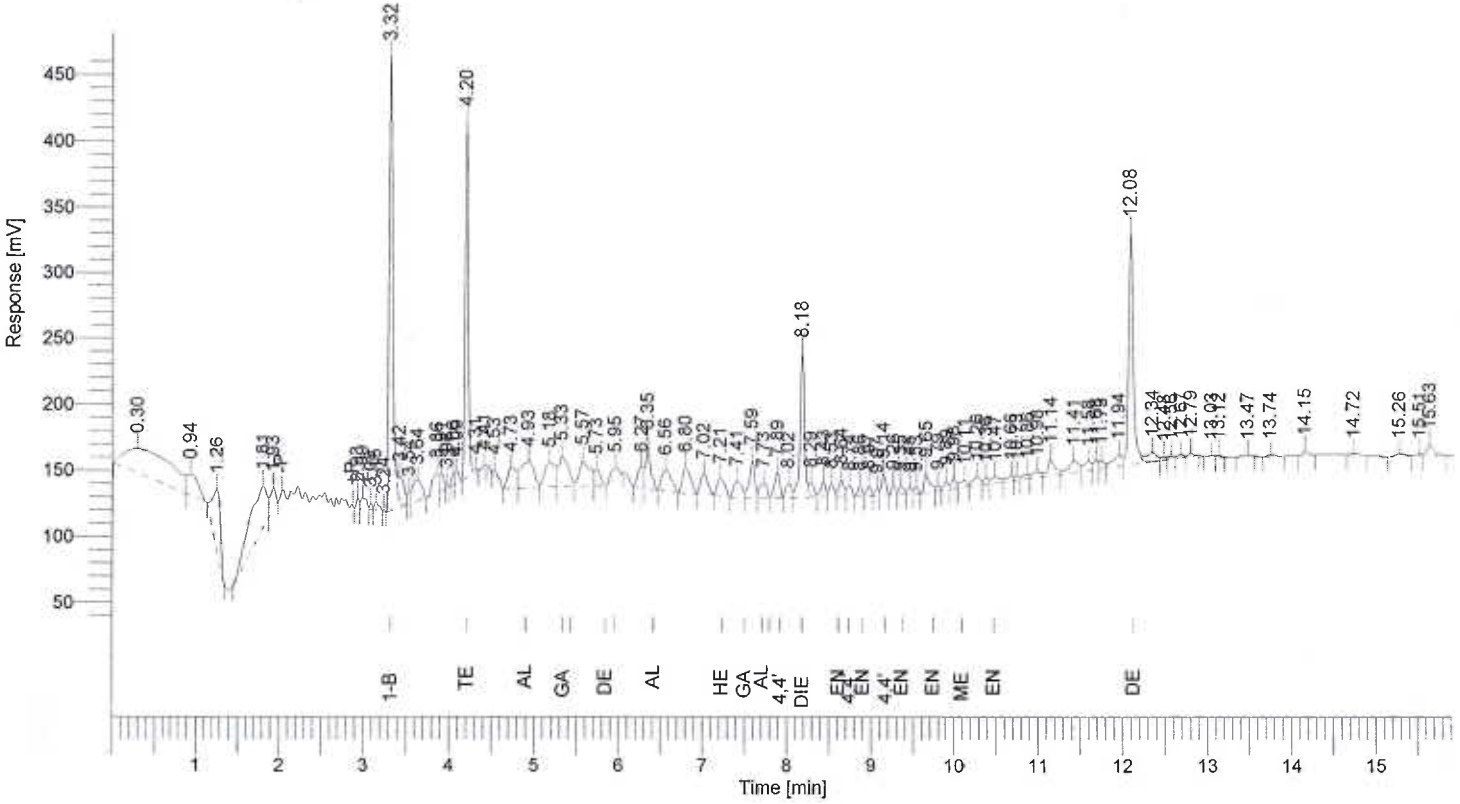
Results

Component Name	Time [min]	Area [uV*sec]	Height [uV]	Adjusted Amount
1-Bromo-2-Nitrobenze	3.31	1286244	473799	
Tetra chloro-meta-xy	4.19	930451	322977	92.1377
Alpha-BHC	4.90	366642	38606	0.0104
Gamma-BHC	5.31	304917	38624	0.0089
Delta-BHC	5.73	137388	18254	0.0039
Heptachlor	5.94	215925	30332	0.0062
Aldrin	6.41	40012	12185	0.0013
Heptachlor Epoxide	7.22	157367	20052	0.0053
Gamma Chlordane	7.44	85924	15918	0.0035
Alpha Chlordane	7.71	110188	15759	0.0044
4,4' DDE	7.90	175856	40481	0.0076
Dieldrin	8.19	774121	196888	0.0308
Endrin	8.64	138531	37258	0.0063
4,4' DDD	8.74	43855	10630	0.0026
Endosulfan II	8.88	132046	27192	0.0062
4,4' DDT	9.14	160448	37123	0.0090
Endrin Aldehyde	9.34	93635	20991	0.0051
Endosulfan Sulfate	9.78	138253	18191	0.0073
Methoxychlor	10.08	124264	22255	0.0118
Endrin Ketone	10.48	212658	27343	0.0099
Decachlorobiphenyl	12.09	796838	180896	61.9470
		6425563	1605755	154.2252

Software Version : 6.3.2.0646  
 Sample Name : 161104-24 20/10 RE  
 Instrument Name : GC-J  
 Rack/Vial : 0/6  
 Sample Amount : 1.000000  
 Cycle : 1

Date : 11/10/2016 4:34:46 PM  
 Data Acquisition Time : 11/10/2016 3:38:04 PM  
 Channel : B  
 Operator : manager  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-JJ02016\J16111\J161110\B010.rst  
 Sequence File : D:\GC DATA\GC-JJ02016\J16111\J161110\J161110.seq



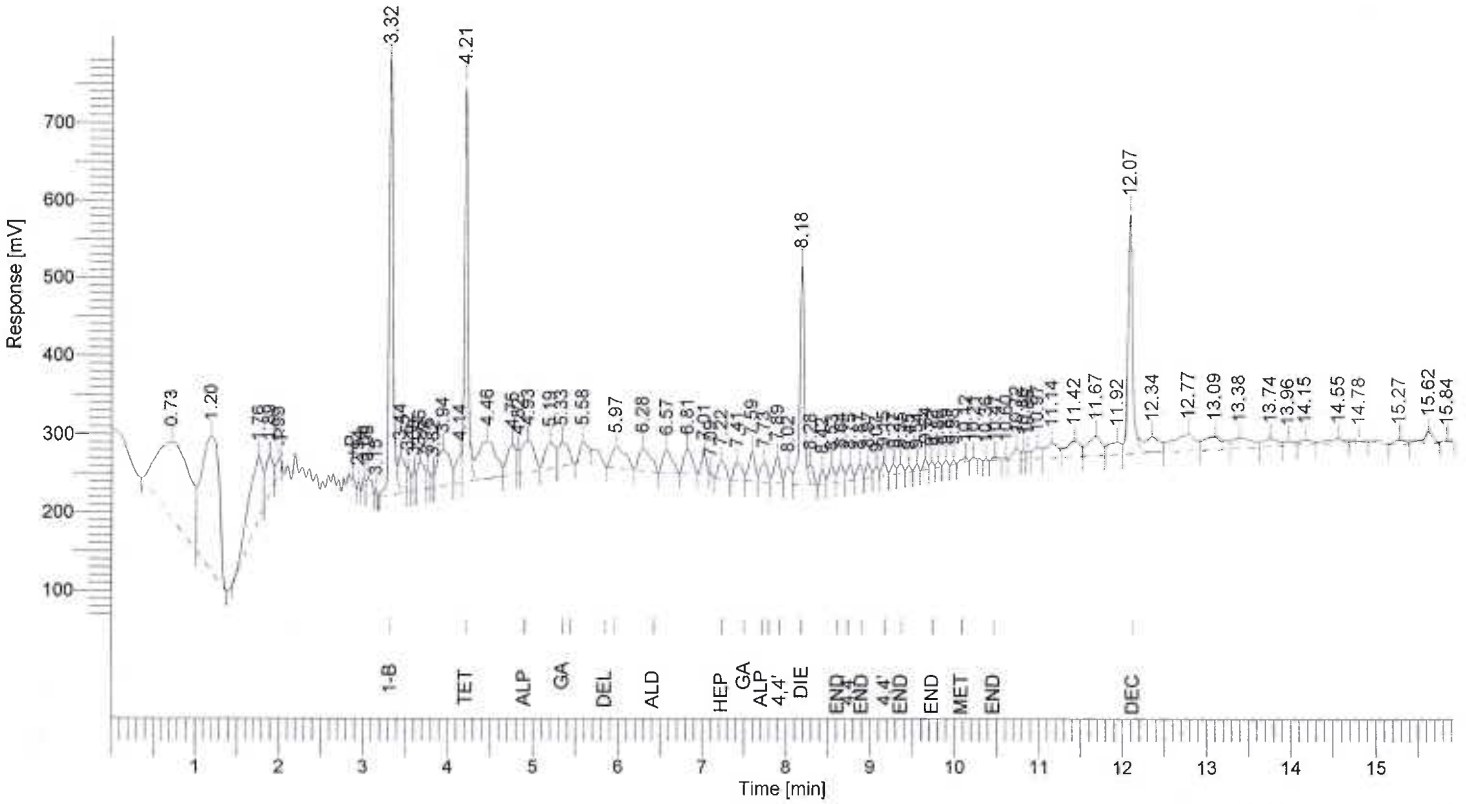
Results

Component Name	Time [min]	Area [uV*sec]	Height [uV]	Adjusted Amount
1-Bromo-2-Nitrobenze	3.32	994934	334970	
Tetra chloro-meta-xy	4.20	645247	257056	82.6036
Alpha-BHC	4.93	214745	19441	0.0079
Gamma-BHC	5.33	188379	22945	0.0071
Heptachlor	5.95	56839	8280	0.0021
Aldrin	6.35	141768	32542	0.0058
Heptachlor Epoxide	7.21	83117	12836	0.0036
Gamma Chlordane	7.41	83765	11958	0.0044
Alpha Chlordane	7.73	66690	10558	0.0035
4,4' DDE	7.89	76349	18834	0.0042
Dieldrin	8.18	390483	107086	0.0201
Endrin	8.64	53794	12398	0.0031
4,4' DDD	8.74	32666	7775	0.0025
Endosulfan II	8.86	26369	7495	0.0016
4,4' DDT	9.14	57075	15586	0.0042
Endrin Aldhyde	9.35	23957	5858	0.0017
Endosulfan Sulfate	9.79	15873	4242	0.0011
Methoxychlor	10.11	33771	5107	0.0041
Endrin Ketone	10.47	33133	4448	0.0020
Decachlorobiphenyl	12.08	681448	175287	68.4875
		3900383	1074703	151.1703

Software Version : 6.3.2.0646  
 Sample Name : 161104-25 20/20  
 Instrument Name : GC-J  
 Rack/Vial : 0/20  
 Sample Amount : 1.000000  
 Cycle : 22

Date : 11/11/2016 8:08:43 AM  
 Data Acquisition Time : 11/7/2016 7:48:12 PM  
 Channel : B  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-J\J02016\J1611\J161107\B022.rst  
 Sequence File : D:\GC DATA\GC-J\J02016\J1611\J161107\J161107.seq



Results

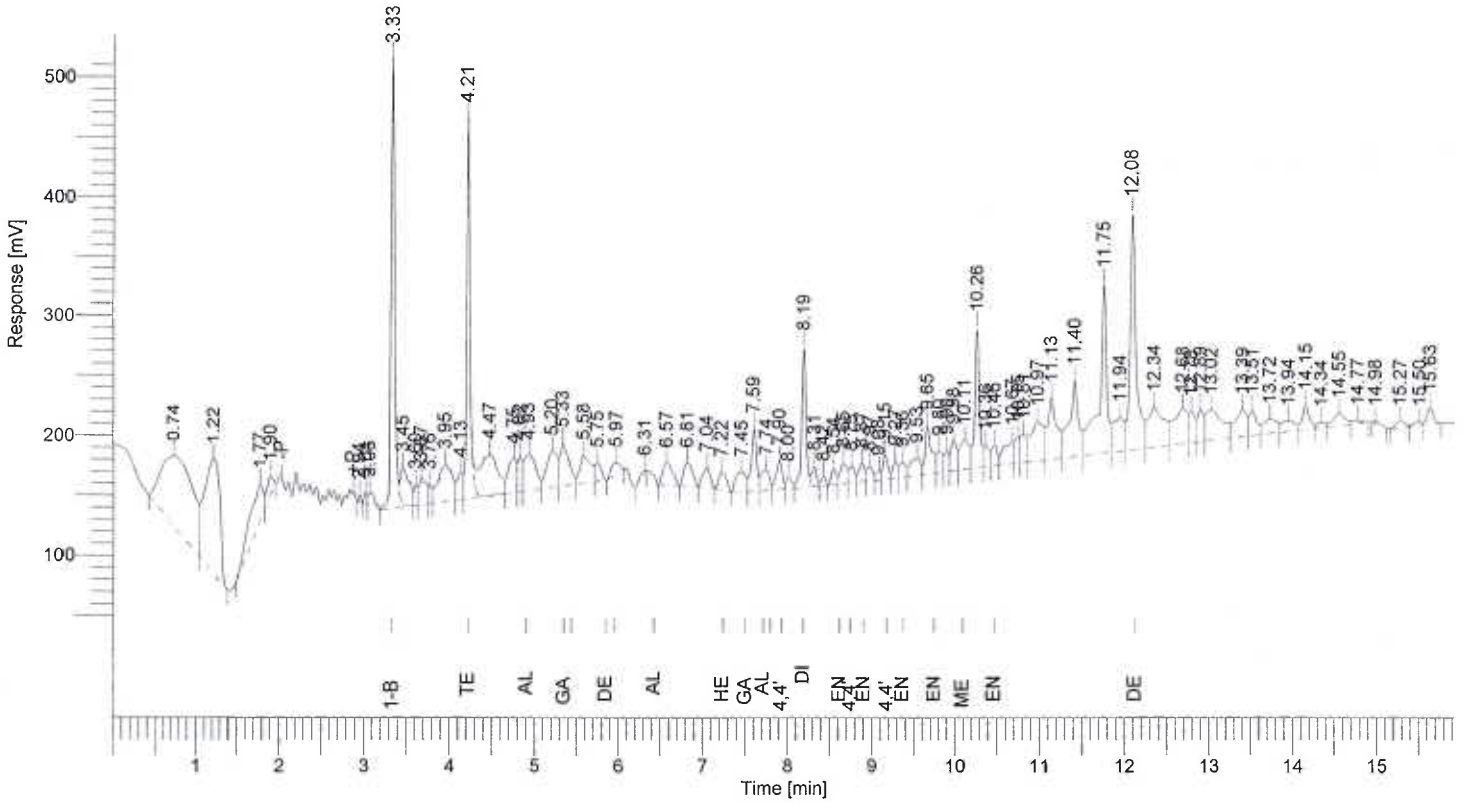
Component Name	Time [min]	Area [uV*sec]	Height [uV]	Adjusted Amount
1-Bromo-2-Nitrobenze	3.32	1687058	552193	
Tetra chloro-meta-xy	4.21	1364971	489035	103.0530
Alpha-BHC	4.93	394870	40182	0.0085
Gamma-BHC	5.33	258319	32234	0.0057
Heptachlor	5.97	309831	25285	0.0068
Heptachlor Epoxide	7.22	147531	22845	0.0038
Gamma Chlordane	7.41	163037	23597	0.0050
Alpha Chlordane	7.73	165300	25115	0.0051
4,4' DDE	7.89	167557	33706	0.0055
Dieldrin	8.18	1006172	277865	0.0305
Endrin	8.64	108396	22757	0.0037
4,4' DDD	8.75	89480	19817	0.0041
Endosulfan II	8.87	80675	18035	0.0029
4,4' DDT	9.15	72028	16495	0.0031
Endrin Aldehyde	9.35	50258	11507	0.0021
Endosulfan Sulfate	9.72	28272	8109	0.0011
Methoxychlor	10.12	27959	4967	0.0020
Endrin Ketone	10.47	22290	4107	0.0008
Decachlorobiphenyl	12.07	1183044	305991	70.1204
		7327047	1933842	173.2643



Software Version : 6.3.2.0646  
 Sample Name : 161104-26 20/10 RE  
 Instrument Name : GC-J  
 Rack/Vial : 0/10  
 Sample Amount : 1.000000  
 Cycle : 2

Date : 11/11/2016 8:06:13 AM  
 Data Acquisition Time : 11/10/2016 5:16:41 PM  
 Channel : B  
 Operator : manager  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-JJ02016\J16111\J161110\B014.rst  
 Sequence File : D:\GC DATA\GC-JJ02016\J16111\J161110\J161110.seq



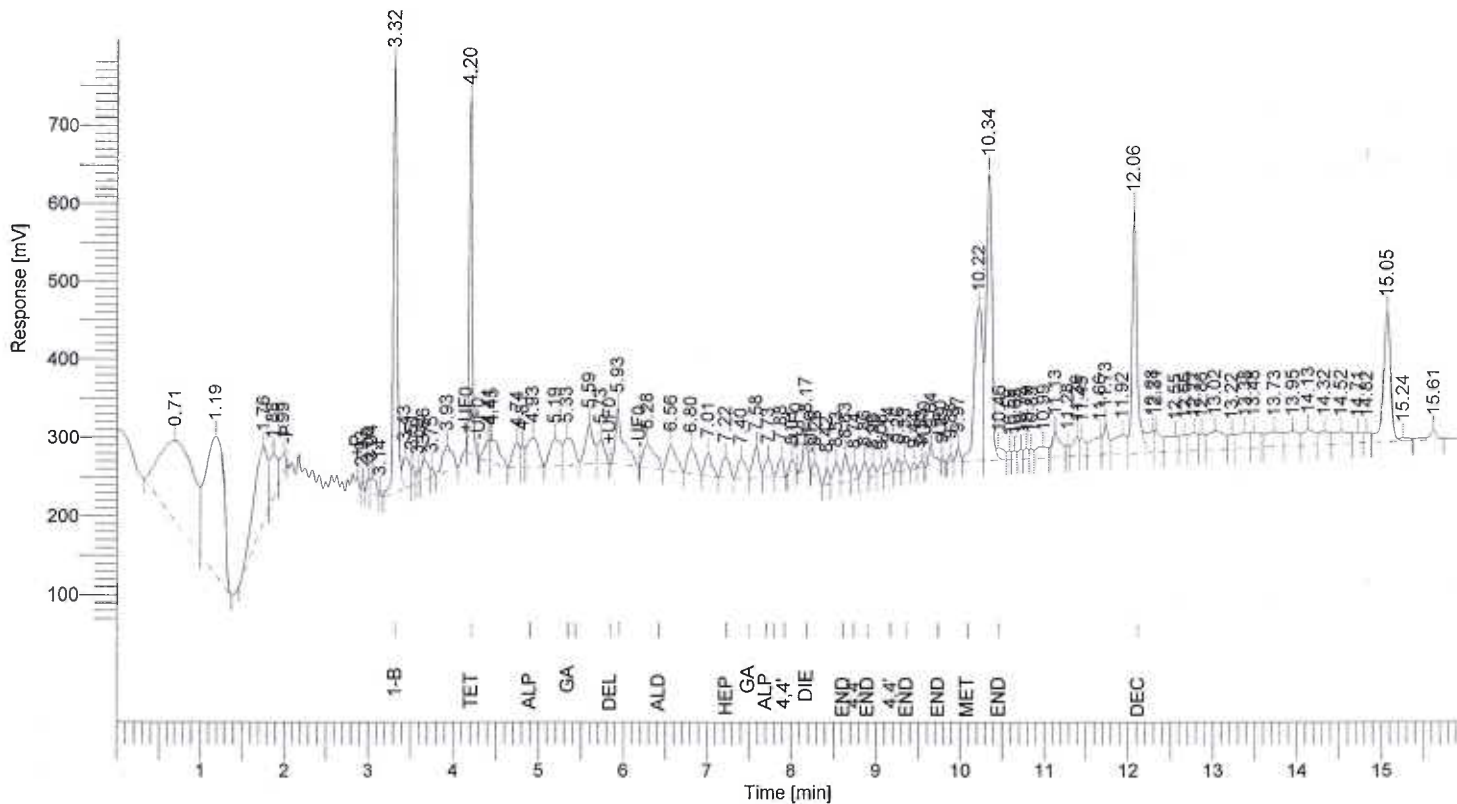
Results

Component Name	Time [min]	Area [uV*sec]	Height [uV]	Adjusted Amount
1-Bromo-2-Nitrobenze	3.33	1060660	361271	-----
Tetra chloro-meta-xy	4.21	852162	302100	102.3325
Alpha-BHC	4.93	287208	29638	0.0099
Gamma-BHC	5.33	265115	35490	0.0094
Heptachlor	5.97	70725	9501	0.0025
Aldrin	6.31	16744	1856	0.0006
Heptachlor Epoxide	7.22	95078	15006	0.0039
Gamma Chlordane	7.45	135213	15983	0.0067
Alpha Chlordane	7.74	116251	16069	0.0057
4,4' DDE	7.90	114313	23260	0.0060
Dieldrin	8.19	411093	114683	0.0198
Endrin	8.65	94153	17366	0.0052
4,4' DDD	8.75	65318	13531	0.0048
Endosulfan II	8.87	71934	14993	0.0041
4,4' DDT	9.15	82606	19891	0.0056
Endrin Aldhyde	9.36	59905	11815	0.0040
Endosulfan Sulfate	9.80	93525	17720	0.0060
Methoxychlor	10.11	192231	23862	0.0221
Endrin Ketone	10.46	78459	17435	0.0044
Decachlorobiphenyl	12.08	988280	196444	93.1683
		5150953	1257914	195.6213

Software Version : 6.3.2.0646  
 Sample Name : 161104-27 20/20  
 Instrument Name : GC-J  
 Rack/Vial : 0/22  
 Sample Amount : 1.000000  
 Cycle : 24

Date : 11/11/2016 8:08:07 AM  
 Data Acquisition Time : 11/7/2016 8:30:25 PM  
 Channel : B  
 Operator : GC  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-JJ02016\J16111\J161107\B024.rst  
 Sequence File : D:\GC DATA\GC-JJ02016\J16111\J161107\J161107.seq



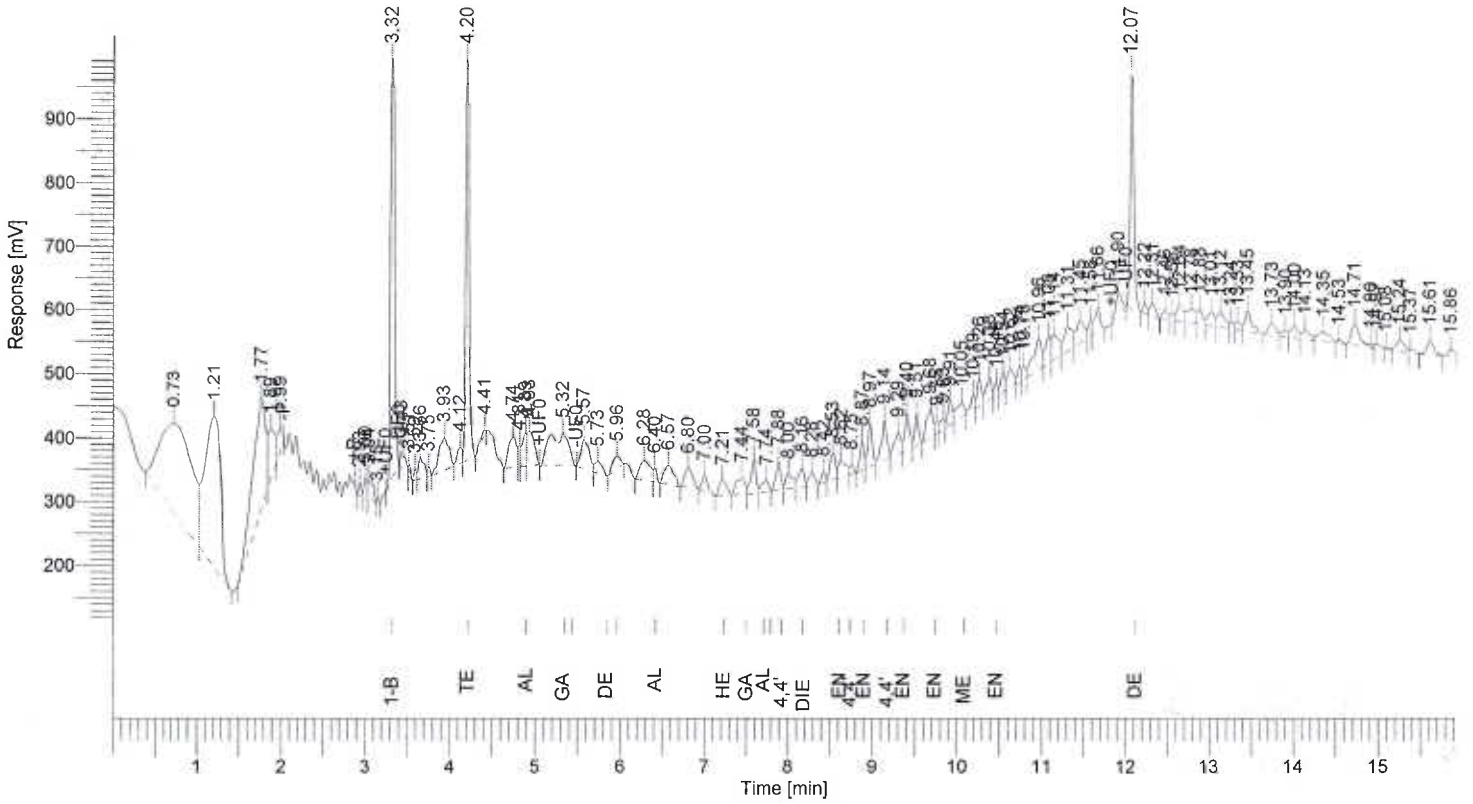
Results

Component Name	Time [min]	Area [uV*sec]	Height [uV]	Adjusted Amount
1-Bromo-2-Nitrobenze	3.32	1595271	534625	
Tetra chloro-meta-xy	4.20	1077405	453226	86.0224
Alpha-BHC	4.93	339911	36527	0.0078
Gamma-BHC	5.33	299926	34307	0.0071
Heptachlor	5.93	472607	71534	0.0110
Heptachlor Epoxide	7.22	166390	25299	0.0045
Gamma Chlordane	7.40	157233	23194	0.0051
Alpha Chlordane	7.73	134046	23060	0.0044
4,4' DDE	7.88	109912	24930	0.0038
Dieldrin	8.17	172193	54316	0.0055
Endrin	8.63	146369	33890	0.0053
4,4' DDD	8.74	81587	19138	0.0040
Endosulfan II	8.86	78018	19620	0.0029
4,4' DDT	9.14	80099	19093	0.0036
Endrin Aldehyde	9.33	50940	13042	0.0023
Endosulfan Sulfate	9.79	6431	2698	0.0003
Methoxychlor	9.97	52016	16847	0.0040
Endrin Ketone	10.46	77533	10834	0.0029
Decachlorobiphenyl	12.06	1321568	311435	82.8378
		6419456	1727614	168.9347

Software Version : 6.3.2.0646  
 Sample Name : 161104-28 20/10 RE  
 Instrument Name : GC-J  
 Rack/Vial : 0/16  
 Sample Amount : 1.000000  
 Cycle : 20

Date : 11/11/2016 8:09:45 AM  
 Data Acquisition Time : 11/8/2016 3:08:11 PM  
 Channel : B  
 Operator : manager  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-J\J02016\J1611\J161107\B063.rst  
 Sequence File : D:\GC DATA\GC-J\J02016\J1611\J161107\J161107.seq



Results

Component Name	Time [min]	Area [uV*sec]	Height [uV]	Adjusted Amount
1-Bromo-2-Nitrobenze	3.32	2081644	658519	
Tetra chloro-meta-xy	4.20	1766709	655510	108.1000
Alpha-BHC	4.89	172820	51314	0.0030
Gamma-BHC	5.32	771413	49636	0.0139
Heptachlor	5.96	129863	19148	0.0023
Aldrin	6.40	58367	21840	0.0011
Heptachlor Epoxide	7.21	153475	24249	0.0032
Gamma Chlordane	7.44	190138	26132	0.0048
Alpha Chlordane	7.74	106293	17334	0.0026
4,4' DDE	7.88	182614	44354	0.0049
Dieldrin	8.16	141740	28632	0.0035
Endrin	8.62	165988	26122	0.0046
4,4' DDD	8.75	41417	13758	0.0015
Endosulfan II	8.87	148748	43154	0.0043
4,4' DDT	9.14	268300	61041	0.0093
Endrin Aldehyde	9.29	171196	32330	0.0058
Endosulfan Sulfate	9.75	53483	18820	0.0017
Methoxychlor	10.05	165278	23287	0.0097
Endrin Ketone	10.46	55898	19734	0.0016
Decachlorobiphenyl	12.07	1162368	365078	55.8355
		7987752	2199992	164.0136



## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Number of Pages 8  
Date Received 11/07/2016  
Date Reported 11/14/2016

Telephone: (909)590-5905  
Attention: Curtis Desilets

Job Number	Order Date	Client
85178	11/07/2016	ENVIRO

Project ID: 603445-100  
Project Name: (161104-23~37)

Enclosed please find results of analyses of 14 soil and 1 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director

85178

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

Misc./PO#

AETZ

PAH 8310

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS			
RR-10-0.5 (161104-23)	85178.01	11/04/16	8:25	Soil	1	None	X														
RR-10-1.0 (161104-24)	85178.02	11/04/16	8:45	Soil	1	None	X														
RR-10-2.5 (161104-25)	85178.03	11/04/16	9:17	Soil	1	None	X														
RR-9-0.5 (161104-26)	85178.04	11/04/16	8:33	Soil	1	None	X														
RR-9-1.0 (161104-27)	85178.05	11/04/16	8:50	Soil	1	None	X														
RR-9-2.5 (161104-28)	85178.06	11/04/16	9:21	Soil	1	None	X														
100-1 (161104-29)	85178.07	11/04/16	9:49	Water	1	None	X														
RR-9-5.0 (161104-30)	85178.08	11/04/16	9:22	Soil	1	None	X														
RR-8-0.5 (161104-31)	85178.09	11/04/16	9:55	Soil	1	None	X														
RR-8-1.0 (161104-32)	85178.10	11/04/16	10:10	Soil	1	None	X														
RR-8-2.5 (161104-33)	85178.11	11/04/16	10:40	Soil	1	None	X														
RR-8-3.0 (161104-34)	85178.12	11/04/16	10:48	Soil	1	None	X														
RR-7-0.5 (161104-35)	85178.13	11/04/16	10:02	Soil	1	None	X														
RR-7-1.0 (161104-36)	85178.14	11/04/16	10:11	Soil	1	None	X														
RR-7-2.5 (161104-37)	85178.15	11/04/16	10:32	Soil	1	None	X														

Company Name: **Enviro-Chem, Inc** Address: **1214 E. Lexington Avenue** City/State/Zip: **Pomona, CA 91766**

Project Contact: **Curtis Desilets** Tel: **909-590-5905** Fax/Email: **envirocheminc@gmail.com**

Sampler's Signature: **ZACH F.** Project Name/ID: **603445-100 (161104-23~37)**

Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: <b>11/7/16 1442</b>	Instructions for Sample Storage After Analysis: <input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days) <input type="checkbox"/> Other:
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time:	
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time: <b>11/7/16 1700</b>	

**CHAIN OF CUSTODY RECORD**



# American Environmental Testing Laboratory Inc.

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Page: 1 A

## Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Project ID: 603445-100  
Date Received 11/07/2016  
Date Reported 11/14/2016

Telephone: (909) 590-5905  
Attention: Curtis Desilets

Job Number	Order Date	Client
85178	11/07/2016	ENVIRO

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 15 samples with the following specification on 11/07/2016.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
85178.07	100-1(161104-29)	11/04/2016	Aqueous	1
	<i>Method ^ Submethod</i>	<i>Req Date</i>	<i>Priority</i>	<i>TAT</i>
	8310	11/14/2016	2	Normal
	<i>Units</i>			ug/L
Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
85178.01	RR-10-0.5(161104-2	11/04/2016	Soil	1
	3)			
85178.02	RR-10-1.0(161104-2	11/04/2016	Soil	1
	4)			
85178.03	RR-10-2.5(161104-2	11/04/2016	Soil	1
	5)			
85178.04	RR-9-0.5(161104-26	11/04/2016	Soil	1
	)			
85178.05	RR-9-1.0(161104-27	11/04/2016	Soil	1
	)			
85178.06	RR-9-2.5(161104-28	11/04/2016	Soil	1
	)			
85178.08	RR-9-5.0(161104-30	11/04/2016	Soil	1
	)			
85178.09	RR-8-0.5(161104-31	11/04/2016	Soil	1
	)			
85178.10	RR-9-1.0(161104-32	11/04/2016	Soil	1
	)			
85178.11	RR-8-2.5(161104-33	11/04/2016	Soil	1
	)			
85178.12	RR-8-3.0(161104-34	11/04/2016	Soil	1
	)			

Continued



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Page: 1 B

### Ordered By

Enviro-Chem Laboratories  
1214 E. Lexington Avenue  
Pomona, CA 91766-5519

Project ID: 603445-100  
Date Received 11/07/2016  
Date Reported 11/14/2016

Telephone: (909) 590-5905  
Attention: Curtis Desilets

Job Number	Order Date	Client
85178	11/07/2016	ENVIRO

## CERTIFICATE OF ANALYSIS

### CASE NARRATIVE

85178.12	RR-8-3.0(161104-34 11/04/2016	Soil	1
	)		
85178.13	RR-7-0.5(161104-35 11/04/2016	Soil	1
	)		
85178.14	RR-7-1.0(161104-36 11/04/2016	Soil	1
	)		
85178.15	RR-7-2.5(161104-37 11/04/2016	Soil	1
	)		

Method	Submethod	Req Date	Priority	TAT	Units
(8310)		11/14/2016	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

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 Pomona, CA 91766-5519

Telephone: (909)590-5905

Attn: Curtis Desilets

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Project ID: 603445-100

Project Name: (161104-23~37)

AETL Job Number	Submitted	Client
85178	11/07/2016	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 110916IB1

Our Lab I.D.		Method Blank	85178.01	85178.02	85178.03	85178.04	
Client Sample I.D.			RR-10-0.5(16 1104-23)	RR-10-1.0(16 1104-24)	RR-10-2.5(16 1104-25)	RR-9-0.5(161 104-26)	
Date Sampled			11/04/2016	11/04/2016	11/04/2016	11/04/2016	
Date Prepared		11/09/2016	11/09/2016	11/09/2016	11/09/2016	11/09/2016	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		11/10/2016	11/10/2016	11/10/2016	11/11/2016	11/11/2016	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	0.0112J	ND
Benzo(a)pyrene	0.010	0.020	ND	0.0246	0.0166J	0.0256	ND
Benzo(b)fluoranthene	0.010	0.020	ND	0.0308	0.0203	0.0240	0.0164J
Benzo(k)fluoranthene	0.010	0.020	ND	0.0137J	ND	0.0119J	ND
Chrysene	0.010	0.020	ND	0.0400	0.0278	0.0381	0.0146J
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.0185J	0.0116J	0.0144J	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	0.0294	0.0163J	0.0147J	ND
Fluoranthene	0.010	0.020	ND	0.0463	0.0268	0.0394	0.0174J
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	0.0178J	0.0174J	0.0224	0.0107J
Pyrene	0.010	0.020	ND	0.0384	0.0266	0.0393	0.0153J
Our Lab I.D.		Method Blank	85178.01	85178.02	85178.03	85178.04	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125	117	122	116	122	124	





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## ANALYTICAL RESULTS

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Telephone: (909)590-5905

Attn: Curtis Desilets

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Project ID: 603445-100

Project Name: (161104-23~37)

AETL Job Number	Submitted	Client
85178	11/07/2016	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 110916IB1

Our Lab I.D.			85178.05	85178.06		
Client Sample I.D.			RR-9-1.0(161 104-27)	RR-9-2.5(161 104-28)		
Date Sampled			11/04/2016	11/04/2016		
Date Prepared			11/09/2016	11/09/2016		
Preparation Method			3550B	3550B		
Date Analyzed			11/11/2016	11/11/2016		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	0.110	0.0127J		
Benzo(a)pyrene	0.010	0.020	0.123	0.0336		
Benzo(b)fluoranthene	0.010	0.020	0.173	0.0298		
Benzo(k)fluoranthene	0.010	0.020	0.0913	0.0150J		
Chrysene	0.010	0.020	0.285	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	0.0754	0.0280		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	0.0638	0.0285		
Fluoranthene	0.010	0.020	0.126	0.0242		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	0.0215	0.0143J		
Pyrene	0.010	0.020	0.141	0.0199J		
Our Lab I.D.			85178.05	85178.06		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		117	115		



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## ANALYTICAL RESULTS

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Telephone: (909)590-5905

Attn: Curtis Desilets

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Project ID: 603445-100

Project Name: (161104-23~37)

AETL Job Number	Submitted	Client
85178	11/07/2016	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 110916IB1

Our Lab I.D.			85178.08	85178.09	85178.10	85178.11	85178.12
Client Sample I.D.			RR-9-5.0(161 104-30)	RR-8-0.5(161 104-31)	RR-9-1.0(161 104-32)	RR-8-2.5(161 104-33)	RR-8-3.0(161 104-34)
Date Sampled			11/04/2016	11/04/2016	11/04/2016	11/04/2016	11/04/2016
Date Prepared			11/09/2016	11/09/2016	11/09/2016	11/09/2016	11/09/2016
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/11/2016	11/11/2016	11/11/2016	11/11/2016	11/11/2016
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.010	0.020	ND	ND	0.0285	0.0132J	ND
Benzo(b)fluoranthene	0.010	0.020	ND	0.0159J	0.0220	0.0111J	ND
Benzo(k)fluoranthene	0.010	0.020	ND	ND	0.0134J	ND	ND
Chrysene	0.010	0.020	ND	0.0245	0.0377	0.0237	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	0.0169J	ND	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	0.0206	ND	ND
Fluoranthene	0.010	0.020	0.0155J	0.0418	0.0299	0.0429	0.0211
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	0.0134J	0.0185J	0.0256	0.0383	0.0108J
Pyrene	0.010	0.020	0.0110J	0.0330	0.0274	0.0324	0.0153J
Our Lab I.D.			85178.08	85178.09	85178.10	85178.11	85178.12
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
p-Terphenyl-D14	75-125		123	121	136 S6	117	116



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## ANALYTICAL RESULTS

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Attn: Curtis Desilets

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Project ID: 603445-100

Project Name: (161104-23~37)

AETL Job Number	Submitted	Client
85178	11/07/2016	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 110916IB1

Our Lab I.D.			85178.13	85178.14	85178.15		
Client Sample I.D.			RR-7-0.5(161 104-35)	RR-7-1.0(161 104-36)	RR-7-2.5(161 104-37)		
Date Sampled			11/04/2016	11/04/2016	11/04/2016		
Date Prepared			11/09/2016	11/09/2016	11/09/2016		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			11/11/2016	11/11/2016	11/11/2016		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND	ND		
Benzo(a)pyrene	0.010	0.020	0.0102J	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	0.0105J	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	ND	ND	ND		
Chrysene	0.010	0.020	0.0128J	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	ND		
Acenaphthene	0.010	0.020	ND	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND	ND		
Anthracene	0.010	0.020	ND	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	ND		
Fluoranthene	0.010	0.020	0.0121J	ND	ND		
Fluorene	0.010	0.020	ND	ND	ND		
Naphthalene	0.010	0.020	ND	ND	ND		
Phenanthrene	0.010	0.020	ND	ND	ND		
Pyrene	0.010	0.020	0.0110J	ND	ND		
Our Lab I.D.			85178.13	85178.14	85178.15		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
p-Terphenyl-D14	75-125		119	118	119		



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## ANALYTICAL RESULTS

### Ordered By

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Attn: Curtis Desilets

Page: 6

Project ID: 603445-100

Project Name: (161104-23~37)

AETL Job Number	Submitted	Client
85178	11/07/2016	ENVIRO

Method: 8310, Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 111016IB1

<b>Our Lab I.D.</b>			Method Blank	<b>85178.07</b>		
Client Sample I.D.				100-1(161104-29)		
Date Sampled				11/04/2016		
Date Prepared			11/10/2016	11/10/2016		
Preparation Method			3510C	3510C		
Date Analyzed			11/10/2016	11/10/2016		
Matrix			Aqueous	Aqueous		
Units			ug/L	ug/L		
Dilution Factor			1	1		
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>		
Benzo(a)anthracene	0.10	0.20	ND	ND		
Benzo(a)pyrene	0.10	0.20	ND	ND		
Benzo(b)fluoranthene	0.10	0.20	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	ND	ND		
Chrysene	0.10	0.20	ND	ND		
Dibenzo(a,h)anthracene	0.10	0.20	ND	ND		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Acenaphthene	0.10	0.20	ND	ND		
Acenaphthylene	0.10	0.20	ND	ND		
Anthracene	0.10	0.20	ND	ND		
Benzo(g,h,i)perylene	0.10	0.20	ND	ND		
Fluoranthene	0.10	0.20	ND	ND		
Fluorene	0.10	0.20	ND	ND		
Naphthalene	0.10	0.20	ND	ND		
Phenanthrene	0.10	0.20	ND	ND		
Pyrene	0.10	0.20	ND	ND		
<b>Our Lab I.D.</b>			Method Blank	<b>85178.07</b>		
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>		
p-Terphenyl-D14	75-125		119	120		



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## QUALITY CONTROL RESULTS

### Ordered By

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Telephone: (909)590-5905

Attn: Curtis Desilets

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Project ID: 603445-100

Project Name: (161104-23~37)

AETL Job Number	Submitted	Client
85178	11/07/2016	ENVIRO

Method: 8310, Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 111016IB1; Dup or Spiked Sample: 1110; LCS: Clean Water; QC Prepared: 11/10/2016; QC Analyzed: 11/10/2016;  
 Units: ug/L

Analytes	MS	MS	MS	MS DUP	MS DUP	MS DUP	RPD	MS/MSD	MS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	%	% Limit	% Limit	
Benzo(a)anthracene	0.500	0.469	93.8	0.500	0.472	94.4	<1	75-125	<20	
Benzo(a)pyrene	0.500	0.453	90.6	0.500	0.451	90.2	<1	75-125	<20	
Naphthalene	5.00	4.66	93.2	5.00	4.71	94.2	1.1	70-120	<20	
<b>Surrogates</b>										
p-Terphenyl-D14	4.00	4.76	119	4.00	4.76	119	<1	75-125	<20	

QC Batch No: 111016IB1; Dup or Spiked Sample: 1110; LCS: Clean Water; QC Prepared: 11/10/2016; QC Analyzed: 11/10/2016;  
 Units: ug/L

Analytes	LCS	LCS	LCS	LCS/LCSD						
	Concen	Recov	% REC	% Limit						
Benzo(a)anthracene	0.500	0.463	92.6	75-125						
Benzo(a)pyrene	0.500	0.450	90.0	75-125						
Naphthalene	5.00	4.70	94.0	70-120						
<b>LCS</b>										
Acenaphthene	5.00	4.57	91.4	75-125						
Acenaphthylene	10.0	8.98	89.8	75-125						
Anthracene	0.500	0.448	89.6	75-125						
Benzo(b)fluoranthene	1.00	0.957	95.7	75-125						
Benzo(g,h,i)perylene	1.00	0.968	96.8	75-125						
Benzo(k)fluoranthene	0.500	0.476	95.2	75-125						
Chrysene	0.500	0.479	95.8	75-125						
Dibenzo(a,h)anthracene	1.00	0.948	94.8	75-125						
Fluoranthene	1.00	0.896	89.6	75-125						
Fluorene	1.00	0.950	95.0	75-125						
Indeno(1,2,3-cd)pyrene	0.500	0.478	95.6	75-125						
Phenanthrene	0.500	0.464	92.8	75-125						
Pyrene	0.500	0.469	93.8	60-110						
<b>Surrogates</b>										
p-Terphenyl-D14	4.00	4.68	117	75-125						



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## QUALITY CONTROL RESULTS

### Ordered By

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Telephone: (909)590-5905

Attn: Curtis Desilets

Page: 8

Project ID: 603445-100

Project Name: (161104-23~37)

AETL Job Number	Submitted	Client
85178	11/07/2016	ENVIRO

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 1109161B1; Dup or Spiked Sample: 85178.08; LCS: Clean Sand; QC Prepared: 11/09/2016; MS Analyzed: 11/11/2016;  
 LCS Analyzed: 11/10/2016; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0441	88.1	0.0500	0.0484	96.7	9.3	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0482	96.4	0.0500	0.0515	103	6.6	75-125	<20
Naphthalene	0.00	0.500	0.471	94.2	0.500	0.473	94.6	<1	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.496	124	0.400	0.476	119	4.1	75-125	<20

QC Batch No: 1109161B1; Dup or Spiked Sample: 85178.08; LCS: Clean Sand; QC Prepared: 11/09/2016; MS Analyzed: 11/11/2016;  
 LCS Analyzed: 11/10/2016; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzo(a)anthracene	0.0500	0.0475	95.0	0.0500	0.0481	96.2	1.3	75-125	<20
Benzo(a)pyrene	0.0500	0.0485	97.0	0.0500	0.0484	96.8	<1	75-125	<20
Naphthalene	0.500	0.479	95.8	0.500	0.472	94.4	1.5	75-125	<20
<b>LCS</b>									
Acenaphthene	0.500	0.480	96.0	0.500	0.470	94.0	2.1	75-125	<20
Acenaphthylene	1.00	0.959	95.9	1.00	0.947	94.7	1.3	75-125	<20
Anthracene	0.0500	0.0487	97.4	0.0500	0.0483	96.6	<1	75-125	<20
Benzo(b)fluoranthene	0.100	0.0997	99.7	0.100	0.100	100	<1	75-125	<20
Benzo(g,h,i)perylene	0.100	0.0961	96.1	0.100	0.0957	95.7	<1	75-125	<20
Benzo(k)fluoranthene	0.0500	0.0500	100	0.0500	0.0500	100	<1	75-125	<20
Chrysene	0.0500	0.0491	98.2	0.0500	0.0491	98.2	<1	75-125	<20
Dibenzo(a,h)anthracene	0.100	0.101	101	0.100	0.0991	99.1	1.9	75-125	<20
Fluoranthene	0.100	0.0945	94.5	0.100	0.0944	94.4	<1	75-125	<20
Fluorene	0.100	0.104	104	0.100	0.0956	95.6	8.4	75-125	<20
Indeno(1,2,3-cd)pyrene	0.0500	0.0496	99.2	0.0500	0.0515	103	3.8	75-125	<20
Phenanthrene	0.0500	0.0487	97.4	0.0500	0.0482	96.4	1.0	75-125	<20
Pyrene	0.0500	0.0480	96.0	0.0500	0.0491	98.2	2.3	75-125	<20
<b>Surrogates</b>									
p-Terphenyl-D14	0.400	0.464	116	0.400	0.476	119	2.6	75-125	<20



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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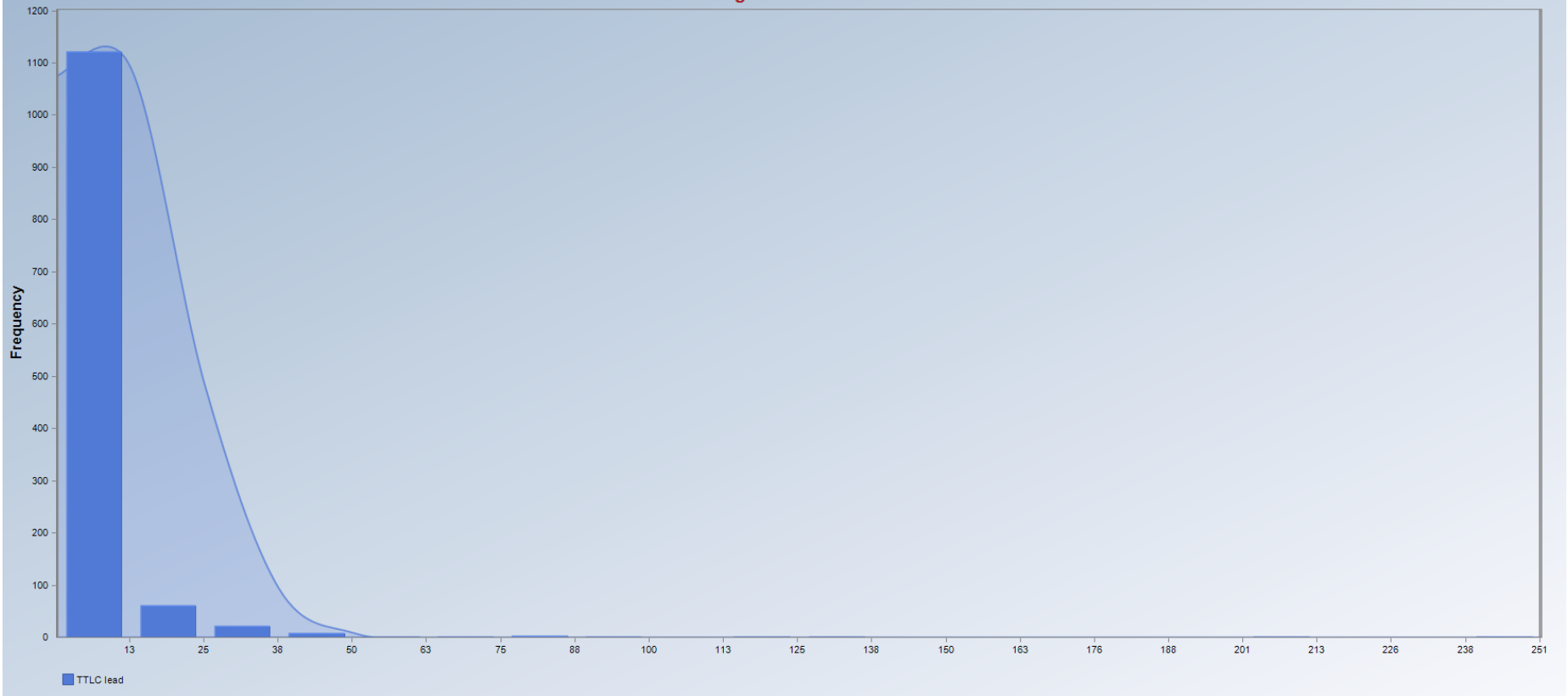
APPENDIX C

STATISTICAL ANALYSIS FOR ADL

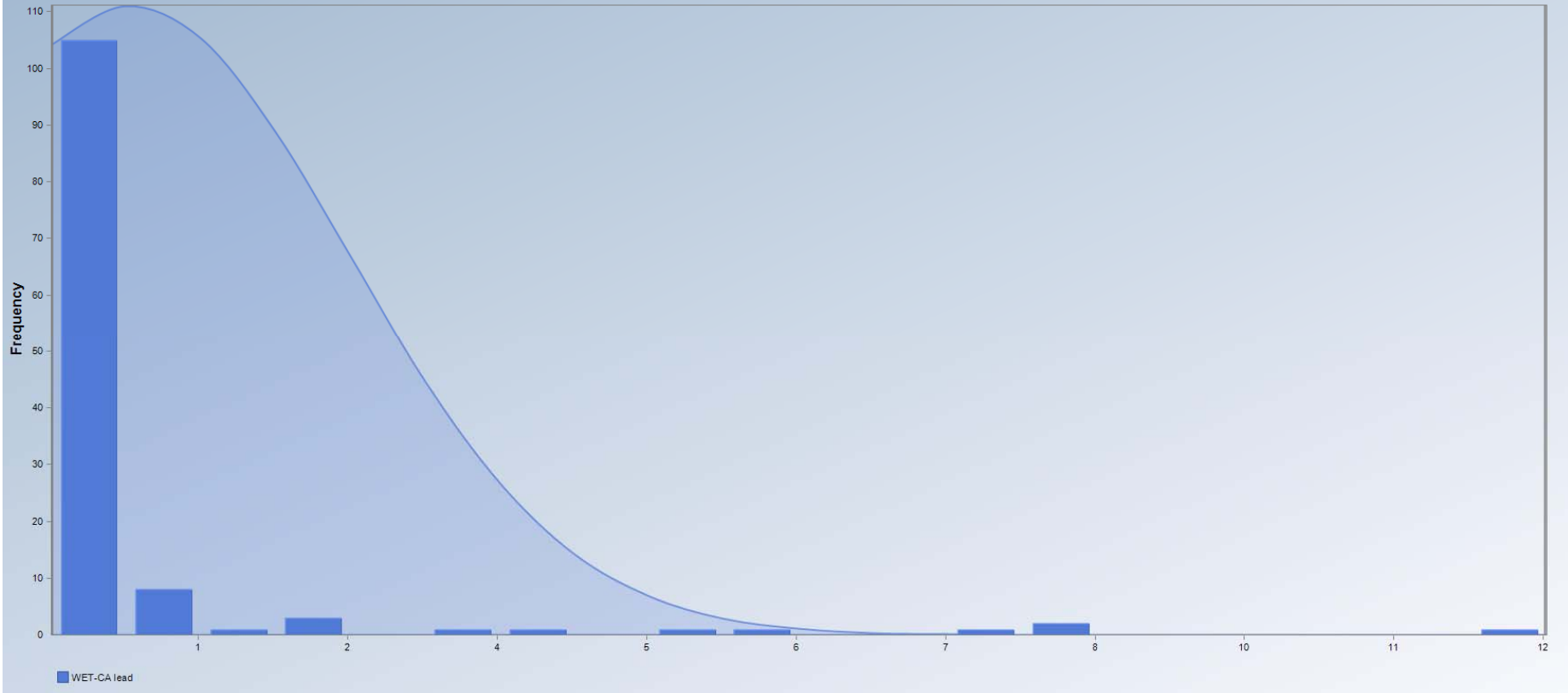
A	B	C	D	E	F	G	H	I	J	K	L
1				<b>Nonparametric UCL Statistics for Full Data Sets</b>							
2	<b>User Selected Options</b>										
3	From File		TTLc.wst								
4	Full Precision		OFF								
5	Confidence Coefficient		95%								
6	Number of Bootstrap Operations		2000								
7											
8											
9	<b>TTLc lead</b>										
10											
11	Number of Valid Observations			1227							
12	Number of Distinct Observations			642							
13	Minimum			0.192							
14	Maximum			251							
15	Mean			6.674							
16	Geometric Mean			3.959							
17	Median			3.9							
18	SD			13.8							
19	Variance			190.5							
20	Std. Error of Mean			0.394							
21	Coefficient of Variation			2.068							
22	Skewness			10.03							
23	Mean of log data			1.376							
24	SD of log data			0.924							
25											
26	<b>Data do not follow a Discernable Distribution</b>										
27											
28	<b>95% Useful UCLs</b>										
29	Student's-t UCL			7.323							
30											
31	<b>95% UCLs (Adjusted for Skewness)</b>										
32	95% Adjusted-CLT UCL (Chen-1995)			7.443							
33	95% Modified-t UCL (Johnson-1978)			7.341							
34											
35	<b>Non-Parametric UCLs</b>										
36	95% CLT UCL			7.322							
37	95% Jackknife UCL			7.323							
38	95% Standard Bootstrap UCL			7.33							
39	95% Bootstrap-t UCL			7.503							
40	95% Hall's Bootstrap UCL			7.533							
41	95% Percentile Bootstrap UCL			7.361							
42	95% BCA Bootstrap UCL			7.46							
43	95% Chebyshev(Mean, Sd) UCL			8.392							
44	97.5% Chebyshev(Mean, Sd) UCL			9.135							
45	99% Chebyshev(Mean, Sd) UCL			10.59							
46											
47	<b>Potential UCL to Use</b>										
48	Use 95% Chebyshev (Mean, Sd) UCL			8.392							
49											
50	<b>Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.</b>										
51	<b>These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)</b>										
52	<b>and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.</b>										
53											

A	B	C	D	E	F	G	H	I	J	K	L
1				<b>Nonparametric UCL Statistics for Full Data Sets</b>							
2	<b>User Selected Options</b>										
3	From File		WET-CA.wst								
4	Full Precision		OFF								
5	Confidence Coefficient		95%								
6	Number of Bootstrap Operations		2000								
7											
8											
9	<b>WET-CA lead</b>										
10											
11	Number of Valid Observations			125							
12	Number of Distinct Observations			70							
13	Minimum			0.02							
14	Maximum			12							
15	Mean			0.645							
16	Geometric Mean			0.124							
17	Median			0.07							
18	SD			1.76							
19	Variance			3.098							
20	Std. Error of Mean			0.157							
21	Coefficient of Variation			2.731							
22	Skewness			4.295							
23	Mean of log data			-2.091							
24	SD of log data			1.612							
25											
26	<b>Data do not follow a Discernable Distribution</b>										
27											
28	<b>95% Useful UCLs</b>										
29	Student's-t UCL			0.905							
30											
31	<b>95% UCLs (Adjusted for Skewness)</b>										
32	95% Adjusted-CLT UCL (Chen-1995)			0.968							
33	95% Modified-t UCL (Johnson-1978)			0.916							
34											
35	<b>Non-Parametric UCLs</b>										
36	95% CLT UCL			0.904							
37	95% Jackknife UCL			0.905							
38	95% Standard Bootstrap UCL			0.903							
39	95% Bootstrap-t UCL			1.005							
40	95% Hall's Bootstrap UCL			0.988							
41	95% Percentile Bootstrap UCL			0.923							
42	95% BCA Bootstrap UCL			0.968							
43	95% Chebyshev(Mean, Sd) UCL			1.331							
44	97.5% Chebyshev(Mean, Sd) UCL			1.628							
45	99% Chebyshev(Mean, Sd) UCL			2.211							
46											
47	<b>Potential UCL to Use</b>										
48	Use 95% Chebyshev (Mean, Sd) UCL			1.331							
49											
50	<b>Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.</b>										
51	<b>These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)</b>										
52	<b>and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.</b>										
53											

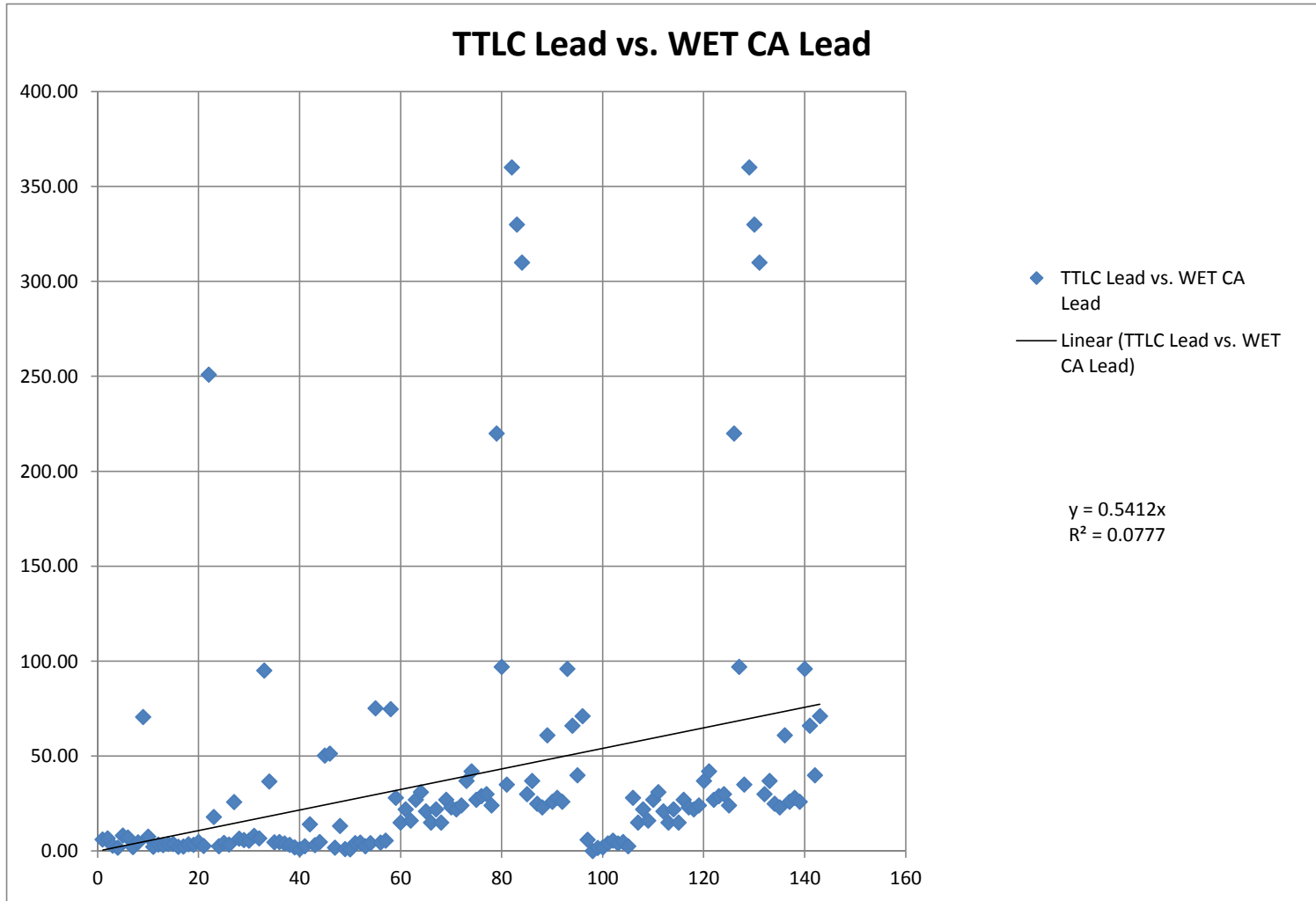
Histogram for TTLC lead



Histogram for WET-CA lead



Appendix C  
TTLC vs. WET CA Linear Regression  
I-15 SI/ADL Survey  
Riverside County MP 49.8 - 52.3  
San Bernardino County MP 0.0 - 12.2  
Cities of Jurupa Valley, Eastvale, Ontario, Rancho Cucamonga,  
and Fontana, California



sample	TTLC lead
AL-01-0.5	<b>10.8</b>
AL-01-1.0	<b>3.28</b>
AL-01-2.5	<b>4.59</b>
AL-01-5.0	<b>1.98</b>
AL-02-0.5	<b>7.83</b>
AL-02-1.0	<b>2.16</b>
AL-02-2.5	<b>2.90</b>
AL-02-5.0	<b>4.08</b>
AL-03-0.5	<b>6.16</b>
AL-03-1.0	<b>6.78</b>
AL-03-2.5	<b>2.89</b>
AL-03-5.0	<b>1.89</b>
AL-04-0.5	<b>35.1</b>
AL-04-1.0	<b>5.12</b>
AL-04a-0.5	<b>11.5</b>
AL-04a-1.0	<b>3.69</b>
AL-05-0.5	<b>8.74</b>
AL-05-1.0	<b>5.60</b>
AL-05-2.5	<b>3.19</b>
AL-05-5.0	<b>2.03</b>
AL-06-0.5	<b>14.0</b>
AL-06-1.0	<b>5.29</b>
AL-06-2.5	<b>1.91</b>
AL-06-5.0	<b>1.93</b>
AL-07-0.5	<b>6.28</b>
AL-07-1.0	<b>3.56</b>
AL-07-2.5	<b>6.03</b>
AL-07-5.0	<b>2.01</b>
AL-08-0.5	<b>8.14</b>
AL-08-1.0	<b>7.19</b>
AL-08-2.5	<b>2.13</b>
AL-08-5.0	<b>4.62</b>
AL-09-0.5	<b>5.99</b>
AL-09-1.0	<b>11.2</b>
AL-09-2.5	<b>6.82</b>
AL-09-5.0	<b>2.38</b>
AL-10-0.5	<b>9.31</b>
AL-10-1.0	<b>70.6</b>
AL-10-2.5	<b>2.43</b>
AL-10-5.0	<b>3.08</b>
AL-11-0.5	<b>25.6</b>
AL-11-1.0	<b>27.8</b>
AL-11-2.5	<b>3.15</b>
AL-11-5.0	<b>10.9</b>
AL-12-0.5	<b>7.64</b>

AL-12-1.0	<b>2.20</b>
AL-12-2.5	<b>3.41</b>
AL-12-5.0	<b>3.18</b>
AL-13-0.5	<b>3.25</b>
AL-13-1.0	<b>4.75</b>
AL-13-2.0	<b>4.26</b>
AL-13-5.0	<b>2.08</b>
AL-14-0.5	<b>5.36</b>
AL-14-1.0	<b>1.97</b>
AL-14-2.5	<b>1.95</b>
AL-14-5.0	<b>3.17</b>
AL-15-0.5	<b>26.0</b>
AL-15-1.0	<b>4.46</b>
AL-15-2.5	<b>6.42</b>
AL-15-5.0	<b>6.33</b>
AL-16-0.5	<b>21.8</b>
AL-16-1.0	<b>11.1</b>
AL-16-2.5	<b>4.42</b>
AL-16-5.0	<b>5.80</b>
AL-17-0.5	<b>3.83</b>
AL-17-1.0	<b>3.81</b>
AL-17-2.5	<b>2.28</b>
AL-17-5.0	<b>2.45</b>
AL-18-0.5	<b>3.98</b>
AL-18-1.0	<b>3.13</b>
AL-18-2.5	<b>2.49</b>
AL-18-5.0	<b>2.05</b>
AL-19-0.5	<b>4.13</b>
AL-19-1.0	<b>2.75</b>
AL-19-2.5	<b>14.6</b>
AL-19-5.0	<b>2.44</b>
AL-20-0.5	<b>4.59</b>
AL-20-1.0	<b>2.69</b>
AL-20-2.5	<b>3.11</b>
AL-20-5.0	<b>3.13</b>
AL-21-0.5	<b>5.73</b>
AL-21-1.0	<b>4.04</b>
AL-21-2.5	<b>2.48</b>
AL-21-5.0	<b>3.34</b>
AL-22-0.5	<b>25.0</b>
AL-22-1.0	<b>3.70</b>
AL-22-2.5	<b>3.23</b>
AL-22-5.0	<b>2.84</b>
AL-23-0.5	<b>11.6</b>
AL-23-1.0	<b>4.61</b>
AL-23-2.5	<b>3.56</b>



AL-23-5.0	<b>3.28</b>
AL-24-0.5	<b>3.13</b>
AL-24-1.0	<b>4.10</b>
AL-24-2.5	<b>6.65</b>
AL-24-5.0	<b>4.91</b>
AL-25-0.5	<b>3.61</b>
AL-25-1.0	<b>3.35</b>
AL-25-2.5	<b>4.76</b>
AL-25-5.0	<b>2.72</b>
AL-26-0.5	<b>251</b>
AL-26-1.0	<b>12.5</b>
AL-26-2.5	<b>7.53</b>
AL-26-5.0	<b>18.3</b>
AL-27-0.5	<b>5.99</b>
AL-27-1.0	<b>3.28</b>
AL-27-2.5	<b>6.34</b>
AL-27-5.0	<b>2.05</b>
AL-28-0.5	<b>11.2</b>
AL-28-1.0	<b>12.4</b>
AL-28-2.5	<b>2.77</b>
AL-28-5.0	<b>2.32</b>
AL-29-0.5	<b>7.05</b>
AL-29-1.0	<b>14.1</b>
AL-29-2.5	<b>8.66</b>
AL-29-5.0	<b>7.76</b>
AL-30-0.5	<b>18.0</b>
AL-30-1.0	<b>2.64</b>
AL-30-2.5	<b>4.38</b>
AL-30-5.0	<b>3.52</b>
AL-31-0.5	<b>4.07</b>
AL-31-1.0	<b>3.50</b>
AL-31-2.5	<b>3.11</b>
AL-31-5.0	<b>3.06</b>
AL-32-0.5	<b>0.37</b>
AL-32-1.0	<b>3.02</b>
AL-32-2.5	<b>3.29</b>
AL-32-5.0	<b>4.69</b>
AL-33-0.5	<b>3.73</b>
AL-33-1.0	<b>2.48</b>
AL-33-2.5	<b>4.31</b>
AL-33-5.0	<b>2.75</b>
AL-34-0.5	<b>3.01</b>
AL-34-1.0	<b>3.90</b>
AL-34-2.5	<b>3.20</b>
AL-34-5.0	<b>4.14</b>
AL-35-0.5	<b>2.81</b>

AL-35-1.0	<b>3.89</b>
AL-35-2.5	<b>3.61</b>
AL-35-5.0	<b>3.74</b>
AL-36-0.5	<b>9.46</b>
AL-36-1.0	<b>8.03</b>
AL-36-2.5	<b>5.14</b>
AL-36-5.0	<b>3.93</b>
AL-37-0.5	<b>138</b>
AL-37-1.0	<b>27.0</b>
AL-37-2.5	<b>4.64</b>
AL-37-5.0	<b>6.87</b>
AL-38-0.5	<b>6.85</b>
AL-38-1.0	<b>4.25</b>
AL-38-2.5	<b>4.60</b>
AL-38-5.0	<b>4.45</b>
AL-39-0.5	<b>7.38</b>
AL-39-1.0	<b>7.54</b>
AL-39-2.5	<b>16.5</b>
AL-39-5.0	<b>7.12</b>
AL-40-0.5	<b>6.84</b>
AL-40-1.0	<b>1.79</b>
AL-40-2.5	<b>5.36</b>
AL-40-5.0	<b>6.29</b>
AL-41-0.5	<b>8.93</b>
AL-41-1.0	<b>6.61</b>
AL-41-2.5	<b>6.93</b>
AL-41-5.0	<b>8.05</b>
AL-42-0.5	<b>25.8</b>
AL-42-1.0	<b>6.61</b>
AL-42-2.5	<b>5.79</b>
AL-42-5.0	<b>5.60</b>
AL-43-0.5	<b>2.47</b>
AL-43-1.0	<b>5.59</b>
AL-43-2.5	<b>4.64</b>
AL-43-5.0	<b>5.18</b>
AL-44-0.5	<b>6.72</b>
AL-44-1.0	<b>4.75</b>
AL-44-2.5	<b>5.18</b>
AL-44-5.0	<b>6.89</b>
AL-45-0.5	<b>6.26</b>
AL-45-1.0	<b>4.52</b>
AL-45-2.5	<b>6.01</b>
AL-45-5.0	<b>5.45</b>
AL-46-0.5	<b>11.6</b>
AL-46-1.0	<b>5.32</b>
AL-46-2.5	<b>6.06</b>

AL-46-5.0	<b>5.55</b>
AL-47-0.5	<b>6.19</b>
AL-47-1.0	<b>6.10</b>
AL-47-2.5	<b>4.34</b>
AL-47-5.0	<b>8.14</b>
AL-48-0.5	<b>6.66</b>
AL-48-1.0	<b>6.66</b>
AL-48-2.5	<b>5.05</b>
AL-48-5.0	<b>8.12</b>
AL-49-0.5	<b>5.39</b>
AL-49-1.0	<b>5.36</b>
AL-49-2.5	<b>5.49</b>
AL-49-5.0	<b>5.24</b>
AL-50-0.5	<b>15.7</b>
AL-50-1.0	<b>4.52</b>
AL-50-2.5	<b>4.73</b>
AL-51-0.5	<b>19.3</b>
AL-51-1.0	<b>10.5</b>
AL-51-2.5	<b>8.26</b>
AL-51-5.0	<b>4.94</b>
AL-52-0.5	<b>6.50</b>
AL-52-1.0	<b>4.92</b>
AL-52a-0.5	<b>5.56</b>
AL-52a-1.0	<b>2.80</b>
AL-53-0.5	<b>5.70</b>
AL-53-1.0	<b>6.16</b>
AL-53-2.5	<b>2.69</b>
AL-53-5.0	<b>3.03</b>
AL-54-0.5	<b>13.5</b>
AL-54-1.0	<b>1.96</b>
AL-54-2.5	<b>1.94</b>
AL-54-5.0	<b>2.29</b>
AL-55-0.5	<b>2.15</b>
AL-55-1.0	<b>2.47</b>
AL-55-2.5	<b>2.09</b>
AL-55-5.0	<b>2.08</b>
AL-56-0.5	<b>22.8</b>
AL-56-1.0	<b>3.88</b>
AL-56-2.5	<b>4.03</b>
AL-56-5.0	<b>1.45</b>
AL-57-0.5	<b>6.23</b>
AL-57-1.0	<b>12.6</b>
AL-57-2.5	<b>3.05</b>
AL-57-5.0	<b>1.24</b>
AL-58-0.5	<b>9.24</b>
AL-58-1.0	<b>83.2</b>

AL-58a-0.5	<b>81.2</b>
AL-58a-1.0	<b>9.42</b>
AL-59-0.5	<b>4.45</b>
AL-59-1.0	<b>4.31</b>
AL-59a-0.5	<b>3.68</b>
AL-59a-1.0	<b>2.63</b>
AL-60-0.5	<b>7.09</b>
AL-60-1.0	<b>5.58</b>
AL-60-2.5	<b>3.34</b>
AL-60a-0.5	<b>4.17</b>
AL-61-0.5	<b>5.98</b>
AL-61-1.0	<b>5.75</b>
AL-61-2.5	<b>6.64</b>
AL-62-0.5	<b>7.47</b>
AL-62-1.0	<b>2.91</b>
AL-62-2.0	<b>3.43</b>
AL-62a-0.5	<b>15.1</b>
AL-63-0.5	<b>19.8</b>
AL-63-1.0	<b>12.1</b>
AL-63-2.5	<b>17.8</b>
AL-64-0.5	<b>5.77</b>
AL-64-1.0	<b>6.39</b>
AL-64-2.0	<b>5.87</b>
AL-64a-0.5	<b>5.77</b>
AL-65-0.5	<b>8.03</b>
AL-65-1.0	<b>6.66</b>
AL-65-2.5	<b>95.1</b>
AL-65-3.0	<b>36.7</b>
AL-66-0.5	<b>5.17</b>
AL-66-1.0	<b>4.29</b>
AL-66-2.0	<b>3.89</b>
AL-66a-0.5	<b>6.32</b>
AL-67-0.5	<b>7.21</b>
AL-67-1.0	<b>6.29</b>
AL-67-2.5	<b>6.42</b>
AL-67a-0.5	<b>7.74</b>
AL-68-0.5	<b>6.88</b>
AL-68-1.0	<b>4.25</b>
AL-68-2.5	<b>2.75</b>
AL-68a-0.5	<b>5.94</b>
AL-69-0.5	<b>5.07</b>
AL-69-1.0	<b>211</b>
AL-69-2.5	<b>60.3</b>
AL-69-3.0	<b>28.4</b>
AL-70-0.5	<b>6.50</b>
AL-70-1.0	<b>6.49</b>

AL-70-2.5	<b>5.49</b>
AL-70-5.0	<b>5.08</b>
AL-71-0.5	<b>4.70</b>
AL-71-1.0	<b>5.69</b>
AL-71-2.0	<b>2.65</b>
AL-71a-0.5	<b>3.35</b>
AL-72-0.5	<b>5.24</b>
AL-72-1.0	<b>4.18</b>
AL-72-2.5	<b>4.68</b>
AL-72-5.0	<b>4.87</b>
AL-73-0.5	<b>3.69</b>
AL-73-1.0	<b>2.51</b>
AL-73-2.5	<b>5.26</b>
AL-73a-0.5	<b>5.24</b>
AL-74-0.5	<b>1.80</b>
AL-74-1.0	<b>0.731</b>
AL-74-2.5	<b>1.27</b>
AL-74-3.0	<b>1.99</b>
AL-75-0.5	<b>2.59</b>
AL-75-1.0	<b>2.29</b>
AL-75-2.5	<b>4.55</b>
AL-75-5.0	<b>3.39</b>
AL-76-0.5	<b>4.99</b>
AL-76-1.0	<b>9.24</b>
AL-76-2.0	<b>4.07</b>
AL-76a-0.5	<b>5.69</b>
AL-77-0.5	<b>3.71</b>
AL-77-1.0	<b>1.85</b>
AL-77-2.5	<b>3.07</b>
AL-78-0.5	<b>4.62</b>
AL-78-1.0	<b>4.72</b>
AL-78-2.0	<b>4.05</b>
AL-79-0.5	<b>3.57</b>
AL-79-1.0	<b>3.13</b>
AL-79-2.5	<b>1.79</b>
AL-79-5.0	<b>1.38</b>
AL-80-0.5	<b>11.8</b>
AL-80-1.0	<b>32.1</b>
AL-80-2.5	<b>2.00</b>
AL-80-5.0	<b>2.08</b>
AL-81-0.5	<b>3.24</b>
AL-81-1.0	<b>1.98</b>
AL-81-2.5	<b>1.07</b>
AL-81-3.0	<b>2.54</b>
AL-82-0.5	<b>1.54</b>
AL-82-1.0	<b>2.08</b>

AL-82-2.5	<b>2.52</b>
AL-82-5.0	<b>1.92</b>
AL-83-0.5	<b>2.96</b>
AL-83-1.0	<b>2.67</b>
AL-83-2.0	<b>2.15</b>
AL-83a-0.5	<b>4.39</b>
AL-83a-1.0	<b>2.72</b>
AL-84-0.5	<b>2.21</b>
AL-84-1.0	<b>2.34</b>
AL-84-2.5	<b>1.28</b>
AL-84-5.0	<b>0.764</b>
AL-85-0.5	<b>4.07</b>
AL-85-1.0	<b>1.52</b>
AL-85-2.5	<b>1.52</b>
AL-85-5.0	<b>2.13</b>
AL-86-0.5	<b>2.18</b>
AL-86-1.0	<b>1.56</b>
AL-86-1.5	<b>1.87</b>
AL-86a-0.5	<b>2.71</b>
AL-86a-1.0	<b>2.02</b>
AL-87-0.5	<b>2.30</b>
AL-87-1.0	<b>2.07</b>
AL-87-2.5	<b>2.75</b>
AL-87-5.0	<b>3.40</b>
AL-88-0.5	<b>1.71</b>
AL-88-1.0	<b>4.51</b>
AL-88-2.5	<b>1.77</b>
AL-88-5.0	<b>1.72</b>
AL-89-0.5	<b>3.49</b>
AL-89-1.0	<b>1.43</b>
AL-89-2.0	<b>4.33</b>
AL-90-0.5	<b>2.88</b>
AL-90-1.0	<b>2.29</b>
AL-90-2.5	<b>0.960</b>
AL-90-5.0	<b>2.17</b>
AL-91-0.5	<b>0.779</b>
AL-91-1.0	<b>0.994</b>
AL-91-2.5	<b>0.914</b>
AL-91-5.0	<b>1.12</b>
AL-92-0.5	<b>2.55</b>
AL-92-1.0	<b>2.52</b>
AL-92a-0.5	<b>2.62</b>
AL-92a-1.0	<b>3.29</b>
AL-93-0.5	<b>14.2</b>
AL-93-1.0	<b>3.14</b>
AL-93-2.5	<b>4.83</b>

AL-94-0.5	<b>5.69</b>
AL-94-1.0	<b>9.01</b>
AL-94-2.5	<b>10.8</b>
AL-94-4.0	<b>17.2</b>
AL-95-0.5	<b>3.25</b>
AL-95-1.0	<b>3.60</b>
AL-95-2.0	<b>3.90</b>
AL-95a-0.5	<b>13.1</b>
AL-96-0.5	<b>8.22</b>
AL-96-1.0	<b>50.3</b>
AL-96-2.5	<b>3.75</b>
AL-96-5.0	<b>2.17</b>
AL-97-0.5	<b>12.4</b>
AL-97-1.0	<b>5.28</b>
AL-97a-0.5	<b>11.5</b>
AL-97a-1.0	<b>5.09</b>
AL-98-0.5	<b>16.5</b>
AL-98-1.0	<b>51.3</b>
AL-98-2.5	<b>1.79</b>
AL-98-5.0	<b>1.35</b>
AL-99-0.5	<b>13.9</b>
AL-99-1.0	<b>10.8</b>
AL-99-2.5	<b>6.29</b>
AL-99-3.0	<b>3.40</b>
AL-100-0.5	<b>7.64</b>
AL-100-1.0	<b>5.23</b>
AL-100-2.5	<b>1.88</b>
AL-100-5.0	<b>1.99</b>
AL-101-0.5	<b>7.21</b>
AL-101-1.0	<b>8.81</b>
AL-102-0.5	<b>9.23</b>
AL-102-1.0	<b>3.04</b>
AL-102a-0.5	<b>2.23</b>
AL-102a-1.0	<b>1.57</b>
AL-103-0.5	<b>13.3</b>
AL-103-1.0	<b>10.1</b>
AL-103-2.5	<b>7.38</b>
AL-104-0.5	<b>6.06</b>
AL-104-1.0	<b>4.97</b>
AL-104a-0.5	<b>12.1</b>
AL-104a-1.0	<b>13.1</b>
AL-105-0.5	<b>3.92</b>
AL-105-1.0	<b>12.9</b>
AL-105-2.5	<b>2.82</b>
AL-105-5.0	<b>7.32</b>
AL-106-0.5	<b>19.4</b>

AL-106-1.0	<b>16.8</b>
AL-106a-0.5	<b>9.49</b>
AL-106a-1.0	<b>16.5</b>
AL-107-0.5	<b>10.8</b>
AL-107-1.0	<b>6.76</b>
AL-108-0.5	<b>5.17</b>
AL-108-1.0	<b>7.06</b>
AL-108-2.5	<b>5.27</b>
AL-108-5.0	<b>4.73</b>
AL-109-0.5	<b>8.75</b>
AL-109-1.0	<b>7.40</b>
AL-109-2.5	<b>5.48</b>
AL-109a-0.5	<b>11.9</b>
AL-110-0.5	<b>6.63</b>
AL-110-1.0	<b>6.73</b>
AL-110-2.5	<b>7.18</b>
AL-110-5.0	<b>7.16</b>
AL-111-0.5	<b>4.27</b>
AL-111-1.0	<b>3.05</b>
AL-111-2.5	<b>1.47</b>
AL-111-5.0	0.19
AL-112-0.5	<b>11.4</b>
AL-112-1.0	<b>21.4</b>
AL-112-2.5	<b>0.595</b>
AL-112-5.0	0.19
AL-113-0.5	<b>4.48</b>
AL-113-1.0	<b>6.58</b>
AL-113-2.5	<b>8.52</b>
AL-113-3.0	<b>10.3</b>
AL-114-0.5	<b>2.24</b>
AL-114-1.0	<b>2.39</b>
AL-114-2.5	<b>3.66</b>
AL-114a-0.5	<b>4.26</b>
AL-115-0.5	<b>18.7</b>
AL-115-1.0	<b>0.631</b>
AL-115-2.5	<b>0.770</b>
AL-115-5.0	<b>0.727</b>
AL-116-0.5	<b>6.20</b>
AL-116-1.0	<b>16.5</b>
AL-116-2.5	0.19
AL-116-5.0	0.19
AL-117-0.5	<b>1.61</b>
AL-117-1.0	<b>1.82</b>
AL-117-2.5	<b>1.79</b>
AL-117a-0.5	<b>1.79</b>
AL-118-0.5	<b>3.63</b>



AL-118-1.0	<b>2.56</b>
AL-118-2.5	<b>0.45</b>
AL-118-5.0	<b>0.40</b>
AL-119-0.5	<b>3.63</b>
AL-119-1.0	<b>4.15</b>
AL-119-2.5	<b>2.84</b>
AL-119a-0.5	<b>4.38</b>
AL-120-0.5	<b>3.76</b>
AL-120-1.0	<b>1.74</b>
AL-120-2.5	0.19
AL-120-5.0	<b>1.11</b>
AL-121-0.5	<b>6.94</b>
AL-121-1.0	<b>6.42</b>
AL-121-2.5	<b>22.4</b>
AL-121-5.0	<b>1.07</b>
AL-122-0.5	<b>5.48</b>
AL-122-1.0	<b>6.20</b>
AL-122-2.5	<b>9.14</b>
AL-122-5.0	<b>1.53</b>
AL-123-0.5	<b>0.855</b>
AL-123-1.0	<b>3.03</b>
AL-123-2.5	0.19
AL-123-5.0	0.19
AL-124-0.5	<b>2.08</b>
AL-124-1.0	<b>4.74</b>
AL-124-2.5	0.19
AL-124-5.0	0.19
AL-125-0.5	<b>6.53</b>
AL-125-1.0	<b>4.37</b>
AL-125a-0.5	<b>6.46</b>
AL-125a-1.0	<b>3.25</b>
AL-126-0.5	<b>1.98</b>
AL-126-1.0	0.19
AL-126-2.5	0.19
AL-126-5.0	<b>0.574</b>
AL-127-0.5	<b>24.2</b>
AL-127-1.0	<b>32.0</b>
AL-127a-0.5	<b>38.1</b>
AL-127a-1.0	<b>13.6</b>
AL-128-0.5	<b>17.0</b>
AL-128-1.0	<b>0.997</b>
AL-128-2.5	0.19
AL-128-5.0	0.19
AL-129-0.5	<b>80.7</b>
AL-129-1.0	<b>1.18</b>
AL-129a-0.5	<b>34.8</b>

AL-129a-1.0	<b>31.8</b>
AL-130-0.5	<b>16.0</b>
AL-130-1.0	<b>4.41</b>
AL-130a-0.5	<b>7.05</b>
AL-130a-1.0	<b>1.56</b>
AL-131-0.5	<b>28.6</b>
AL-131-1.0	<b>13.3</b>
AL-131-2.5	<b>27.3</b>
AL-131-4.0	<b>19.3</b>
AL-132-0.5	<b>9.31</b>
AL-132-1.0	<b>8.68</b>
AL-132-2.5	<b>16.3</b>
AL-132-5.0	<b>16.3</b>
AL-133-0.5	<b>2.74</b>
AL-133-1.0	<b>1.39</b>
AL-133-2.5	<b>2.27</b>
AL-133-5.0	0.19
AL-134-0.5	<b>7.55</b>
AL-134-1.0	<b>2.88</b>
AL-134-2.5	<b>5.00</b>
AL-134-5.0	<b>4.04</b>
AL-135-0.5	<b>35.7</b>
AL-135-1.0	<b>1.07</b>
AL-135-2.5	<b>1.56</b>
AL-135-5.0	0.19
AL-136-0.5	<b>1.77</b>
AL-136-1.0	<b>13.2</b>
AL-136-2.5	<b>1.05</b>
AL-136-5.0	<b>0.962</b>
AL-137-0.5	0.19
AL-137-1.0	<b>0.44</b>
AL-137-2.5	<b>1.62</b>
AL-137-5.0	0.19
AL-138-0.5	<b>6.21</b>
AL-138-1.0	<b>92.7</b>
AL-138a-0.5	<b>11.2</b>
AL-138a-1.0	<b>115</b>
AL-139-0.5	<b>2.75</b>
AL-139-1.0	<b>1.57</b>
AL-139-2.5	0.19
AL-139-5.0	<b>0.539</b>
AL-140-0.5	<b>4.87</b>
AL-140-1.0	<b>4.34</b>
AL-140-2.5	<b>0.701</b>
AL-140-5.0	<b>0.633</b>
AL-141-0.5	<b>3.26</b>

AL-141-1.0	<b>0.44</b>
AL-141-2.5	<b>0.818</b>
AL-141-5.0	0.19
A001-0.5	<b>5.64</b>
A001-1.0	<b>2.28</b>
A001-2.5	<b>1.62</b>
A001-5.0	<b>1.25</b>
A002-0.5	<b>6.96</b>
A002-1.0	<b>11.6</b>
A002-2.5	<b>1.06</b>
A002-5.0	<b>2.92</b>
A003-0.5	<b>9.78</b>
A003-1.0	<b>2.97</b>
A003-2.5	<b>5.1</b>
A003-5.0	<b>1.07</b>
A004-0.5	<b>4.51</b>
A004-1.0	<b>2.67</b>
A004-2.5	<b>2.16</b>
A004-5.0	<b>2.69</b>
A005-0.5	<b>6.88</b>
A005-1.0	<b>2.48</b>
A005-2.5	<b>1.78</b>
A005-5.0	<b>3.68</b>
A006-0.5	<b>49.5</b>
A006-1.0	<b>2.43</b>
A006-2.5	<b>1.36</b>
A006-5.0	<b>1.6</b>
A007-0.5	<b>8.67</b>
A007-1.0	<b>1.58</b>
A007-2.5	<b>2.77</b>
A007-5.0	<b>1.56</b>
A008-0.5	<b>3.62</b>
A008-1.0	<b>3.59</b>
A008-2.5	<b>2.69</b>
A008-5.0	<b>1.77</b>
A009-0.5	<b>7.12</b>
A009-1.0	<b>2.19</b>
A009-2.5	<b>8.99</b>
A009-5.0	<b>2.4</b>
A010-0.5	<b>1.54</b>
A010-1.0	<b>3.02</b>
A010-2.5	<b>1.76</b>
A010-5.0	<b>0.5</b>
A011-0.5	<b>3.16</b>

A011-1.0	<b>2.17</b>
A011-2.5	<b>2.75</b>
A011-5.0	<b>4.97</b>
A012-0.5	<b>11.5</b>
A012-1.0	<b>3.08</b>
A012-2.5	<b>2.26</b>
A012-5.0	<b>3.42</b>
A013-0.5	<b>29.2</b>
A013-1.0	<b>2.19</b>
A013-2.5	<b>2.45</b>
A013-5.0	<b>1.91</b>
A014-0.5	<b>4.2</b>
A014-1.0	<b>3.01</b>
A014-2.5	<b>1.33</b>
A014-5.0	<b>3.37</b>
A015-0.5	<b>3.18</b>
A015-1.0	<b>3.72</b>
A015-2.5	<b>3.05</b>
A015-5.0	<b>4.19</b>
A016-0.5	<b>6.75</b>
A016-1.0	<b>3.61</b>
A016-2.5	<b>3.29</b>
A016-5.0	<b>3.31</b>
A017-0.5	<b>3.5</b>
A017-1.0	<b>2.53</b>
A017-2.5	<b>2.43</b>
A017-5.0	<b>3.08</b>
A018-0.5	<b>4.85</b>
A018-1.0	<b>4.83</b>
A018-2.5	<b>2.34</b>
A018-5.0	<b>1.99</b>
A019-0.5	<b>3.74</b>
A019-1.0	<b>3.29</b>
A019-2.5	<b>2.64</b>
A019-5.0	<b>4.18</b>
A020-0.5	<b>5.49</b>
A020-1.0	<b>3.5</b>
A020-2.5	<b>2.44</b>
A020-5.0	<b>1.59</b>
A021-0.5	<b>3.26</b>
A021-1.0	<b>2.55</b>
A021-2.5	<b>2.91</b>
A021-5.0	<b>2.66</b>
A022-0.5	<b>3.73</b>

A022-1.0	<b>2.43</b>
A022-2.5	<b>4.23</b>
A022-5.0	<b>3.19</b>
A023-0.5	<b>15.2</b>
A023-1.0	<b>4.7</b>
A023-2.5	<b>3.63</b>
A023-5.0	<b>3.11</b>
A024-0.5	<b>5.63</b>
A024-1.0	<b>4.01</b>
A024-2.5	<b>2.58</b>
A024-5.0	<b>3.37</b>
A025-0.5	<b>6.04</b>
A025-1.0	<b>3.57</b>
A025-2.5	<b>2.66</b>
A025-5.0	<b>3.01</b>
A026-0.5	<b>6.14</b>
A026-1.0	<b>2.93</b>
A026-2.5	<b>2.1</b>
A026-5.0	<b>2.88</b>
A027-0.5	<b>3.79</b>
A027-1.0	<b>4.3</b>
A027-2.5	<b>3.11</b>
A027-5.0	<b>2.65</b>
A028-0.5	<b>6.81</b>
A028-1.0	<b>3.87</b>
A028-2.5	<b>3.16</b>
A028-5.0	<b>3.58</b>
A029-0.5	<b>5.4</b>
A029-1.0	<b>3.65</b>
A029-2.5	<b>4.27</b>
A029-5.0	<b>3.57</b>
B001-0.5	<b>47.1</b>
B001-1.0	<b>7.75</b>
B001-2.5	<b>14.1</b>
B001-5.0	<b>1.36</b>
B002-0.5	<b>12.3</b>
B002-1.0	<b>8.18</b>
B002-2.5	<b>3.31</b>
B002-5.0	<b>1.41</b>
B003-0.5	<b>2.83</b>
B003-1.0	<b>2.13</b>
B003-2.5	<b>2.31</b>
B003-5.0	<b>1.11</b>
B004-0.5	<b>9.35</b>

B004-1.0	<b>3.12</b>
B004-2.5	<b>2.91</b>
B004-5.0	<b>4.05</b>
B005-0.5	<b>4.77</b>
B005-1.0	<b>2.03</b>
B005-2.5	<b>3.46</b>
B005-5.0	<b>1.32</b>
B006-0.5	<b>3.66</b>
B006-1.0	<b>3.18</b>
B006-2.5	<b>1.89</b>
B006-5.0	<b>0.5</b>
B007-0.5	<b>1.29</b>
B007-1.0	<b>3.73</b>
B007-2.5	<b>0.973</b>
B007-5.0	<b>1.35</b>
B009-0.5	<b>3.23</b>
B009-1.0	<b>3.28</b>
B009-2.5	<b>1.91</b>
B009-5.0	<b>2.67</b>
B010-0.5	<b>3.05</b>
B010-1.0	<b>2.53</b>
B010-2.5	<b>3.19</b>
B010-5.0	<b>1.96</b>
B011-0.5	<b>10.8</b>
B011-1.0	<b>0.5</b>
B011-2.5	<b>0.734</b>
B011-5.0	<b>1.52</b>
B012-0.5	<b>47.2</b>
B012-1.0	<b>2.06</b>
B012-2.5	<b>2.58</b>
B012-5.0	<b>1.24</b>
B013-0.5	<b>5.4</b>
B013-1.0	<b>2.09</b>
B013-2.5	<b>2.43</b>
B013-5.0	<b>3.59</b>
B014-0.5	<b>16.1</b>
B014-1.0	<b>1.99</b>
B014-2.5	<b>2.44</b>
B014-5.0	<b>2.47</b>
B015-0.5	<b>3.62</b>
B015-1.0	<b>1.21</b>
B015-2.5	<b>4.07</b>
B015-5.0	<b>3.31</b>
B016-0.5	<b>6.73</b>

B016-1.0	<b>3.51</b>
B016-2.5	<b>4.06</b>
B016-5.0	<b>1.95</b>
B017-0.5	<b>4.15</b>
B017-1.0	<b>5.19</b>
B017-2.5	<b>4.34</b>
B017-5.0	<b>2.62</b>
B018-0.5	<b>4.77</b>
B018-1.0	<b>3.07</b>
B018-2.5	<b>1.97</b>
B018-5.0	<b>2.67</b>
B019-0.5	<b>16.3</b>
B019-1.0	<b>2.29</b>
B019-2.5	<b>2.59</b>
B019-5.0	<b>1.88</b>
B020-0.5	<b>2.67</b>
B020-1.0	<b>3.29</b>
B020-2.5	<b>2.89</b>
B020-5.0	<b>4.86</b>
B021-0.5	<b>4.53</b>
B021-1.0	<b>4.67</b>
B021-2.5	<b>4.64</b>
B021-5.0	<b>3.76</b>
B022-0.5	<b>4.14</b>
B022-1.0	<b>5.49</b>
B022-2.5	<b>1.38</b>
B022-5.0	<b>1.6</b>
B023-0.5	<b>3.16</b>
B023-1.0	<b>3.38</b>
B023-2.5	<b>3.06</b>
B023-5.0	<b>3.69</b>
B024-0.5	<b>4.39</b>
B024-1.0	<b>4.26</b>
B024-2.5	<b>3.51</b>
B024-5.0	<b>3.37</b>
B025-0.5	<b>4.56</b>
B025-1.0	<b>3.57</b>
B025-2.5	<b>2.57</b>
B025-5.0	<b>3.57</b>
B026-0.5	<b>5.07</b>
B026-1.0	<b>3.12</b>
B026-2.5	<b>2.84</b>
B026-5.0	<b>2.07</b>
B027-0.5	<b>5.98</b>

B027-1.0	<b>4.03</b>
B027-2.5	<b>2.1</b>
B027-5.0	<b>0.51</b>
B028-0.5	<b>4.18</b>
B028-1.0	<b>1.09</b>
B028-2.5	<b>2.32</b>
B028-5.0	<b>6.8</b>
B029-0.5	<b>3.82</b>
B029-1.0	<b>2.86</b>
B029-2.5	<b>3.86</b>
B029-5.0	<b>2.94</b>
C0001-0.5	<b>2.27</b>
C0001-1.0	<b>2.24</b>
C0001-2.5	<b>2.17</b>
C0001-5.0	<b>1.86</b>
C0002-0.5	<b>14</b>
C0002-1.0	<b>2.02</b>
C0002-2.5	<b>2.56</b>
C0002-5.0	<b>2.55</b>
C0003-0.5	<b>3.06</b>
C0003-1.0	<b>2.47</b>
C0003-2.5	<b>3.26</b>
C0003-5.0	<b>3.38</b>
C0004-0.5	<b>3.1</b>
C0004-1.0	<b>2.1</b>
C0004-2.5	<b>2.28</b>
C0004-5.0	<b>3.05</b>
C0005-0.5	<b>22.8</b>
C0005-1.0	<b>2.48</b>
C0005-2.5	<b>6</b>
C0005-5.0	<b>1.62</b>
C0006-0.5	<b>7.57</b>
C0006-1.0	<b>49</b>
C0006-2.5	<b>3.36</b>
C0006-5.0	<b>1.96</b>
C0007-0.5	<b>3</b>
C0007-1.0	<b>3.63</b>
C0007-2.5	<b>3.7</b>
C0007-5.0	<b>3.56</b>
C0008-0.5	<b>7</b>
C0008-1.0	<b>4.03</b>
C0008-2.0	<b>3.47</b>
C0009-0.5	<b>11.9</b>
C0009-1.0	<b>2.84</b>
C0009-2.5	<b>2.71</b>



C0009-5.0	<b>9.8</b>
C0010-0.5	<b>14.1</b>
C0010-1.0	<b>1.78</b>
C0010-2.5	<b>2.63</b>
C0010-5.0	<b>2.86</b>
C0011-0.5	<b>16.5</b>
C0011-1.0	<b>33.4</b>
C0012-0.5	<b>4.02</b>
C0012-1.0	<b>5.3</b>
C0012-2.0	<b>10.7</b>
C0013-0.5	<b>19.7</b>
C0013-1.0	<b>4.14</b>
C0013-2.5	<b>3.27</b>
C0013-5.0	<b>3.66</b>
C0014-0.5	<b>5.49</b>
C0014-1.0	<b>2.54</b>
C0014-2.5	<b>4.63</b>
C0014-5.0	<b>5.67</b>
C0015-0.5	<b>4</b>
C0016-0.5	<b>2.08</b>
C0016-1.0	<b>1.08</b>
C0016-2.0	<b>1.7</b>
C0017-0.5	<b>49.9</b>
C0017-1.0	<b>5.86</b>
C0017-2.5	<b>4.66</b>
C0017-5.0	<b>4</b>
C0018-0.5	<b>3.22</b>
C0018-1.0	<b>6.15</b>
C0018-2.0	<b>4.74</b>
C0019-0.5	<b>4.95</b>
C0019-1.0	<b>4.53</b>
C0019-2.5	<b>4.63</b>
C0019-4.0	<b>4.42</b>
C0020-0.5	<b>29.7</b>
C0020-1.0	<b>5.26</b>
C0020-2.0	<b>4.88</b>
C0021-0.5	<b>3.58</b>
C0021-1.0	<b>4.53</b>
C0021-2.5	<b>4.46</b>
C0021-5.0	<b>6.2</b>
C0022-0.5	<b>4.23</b>
C0022-1.0	<b>4.1</b>
C0022-2.5	<b>4.69</b>
C0022-5.0	<b>3.55</b>
C0023-0.5	<b>3.52</b>
C0023-1.0	<b>3.07</b>

C0023-2.5	<b>4.99</b>
C0023-5.0	<b>2.99</b>
C0024-0.5	<b>4.01</b>
C0024-1.0	<b>3.43</b>
C0024-2.5	<b>3.2</b>
C0024-4.0	<b>3.58</b>
C0025-0.5	<b>5.94</b>
C0025-1.0	<b>2.39</b>
C0025-2.5	<b>6.31</b>
C0025-5.0	<b>3.1</b>
C0026-0.5	<b>19.4</b>
C0026-1.0	<b>19.7</b>
C0026-2.5	<b>3.31</b>
C0026-5.0	<b>4.69</b>
C0027-0.5	<b>2.96</b>
C0027-1.0	<b>2.05</b>
C0027-2.5	<b>3.07</b>
C0027-5.0	<b>3.29</b>
C0028-0.5	<b>5.62</b>
C0028-1.0	<b>6.97</b>
C0028-2.5	<b>4.44</b>
C0028-5.0	<b>2.52</b>
C0029-0.5	<b>5.54</b>
C0029-1.0	<b>4.89</b>
C0029-2.5	<b>4.4</b>
C0029-5.0	<b>6.22</b>
C0030-0.5	<b>5.61</b>
C0030-1.0	<b>4.34</b>
C0030-2.5	<b>5.26</b>
C0030-5.0	<b>3.9</b>
C0031-0.5	<b>13.4</b>
C0031-1.0	<b>6.71</b>
C0031-2.5	<b>5.23</b>
C0031-5.0	<b>4.28</b>
C0032-0.5	<b>5.99</b>
C0032-1.0	<b>6</b>
C0032-2.5	<b>5.1</b>
C0032-5.0	<b>5.18</b>
C0033-0.5	<b>4.46</b>
C0033-1.0	<b>5.16</b>
C0033-2.5	<b>6.16</b>
C0033-5.0	<b>6.15</b>
C0034-0.5	<b>5.81</b>
C0034-1.0	<b>6.54</b>
C0034-2.5	<b>5.7</b>
C0034-5.0	<b>4.72</b>

C0035-0.5	<b>6.5</b>
C0035-1.0	<b>5.41</b>
C0035-2.5	<b>5.09</b>
C0035-5.0	<b>3.29</b>
C0036-0.5	<b>4.4</b>
C0036-1.0	<b>4.36</b>
C0036-2.5	<b>5.02</b>
C0036-5.0	<b>4.52</b>
C0037-0.5	<b>5.25</b>
C0037-1.0	<b>5.02</b>
C0037-2.5	<b>5.8</b>
C0037-5.0	<b>7.86</b>
C0038-0.5	<b>8.5</b>
C0038-1.0	<b>6.28</b>
C0038-2.5	<b>11.2</b>
C0038-5.0	<b>4.55</b>
C0039-0.5	<b>5.16</b>
C0039-1.0	<b>3.91</b>
C0039-2.5	<b>5.44</b>
C0039-5.0	<b>5.57</b>
C0040-0.5	<b>9.14</b>
C0040-1.0	<b>4.26</b>
C0040-2.5	<b>3.36</b>
C0040-5.0	<b>5.38</b>
C0041-0.5	<b>3.4</b>
C0041-1.0	<b>4.46</b>
C0041-2.5	<b>4.77</b>
C0041-5.0	<b>5.58</b>
C0042-0.5	<b>2.67</b>
C0042-1.0	<b>2.95</b>
C0042-2.5	<b>11.9</b>
C0042-5.0	<b>3.88</b>
C0043-0.5	<b>3.66</b>
C0043-1.0	<b>6.69</b>
C0043-2.5	<b>5.15</b>
C0043-5.0	<b>4.3</b>
D0004-0.5	<b>3.55</b>
D0004-1.0	<b>3.82</b>
D0004-2.5	<b>9.1</b>
D0004-5.0	<b>11.4</b>
D0005-0.5	<b>3.53</b>
D0005-1.0	<b>3.56</b>
D0005-2.5	<b>6.5</b>
D0005-5.0	<b>2.41</b>
D0006-0.5	<b>11.5</b>
D0006-1.0	<b>9.11</b>

D0006-2.5	<b>3.56</b>
D0006-5.0	<b>3.2</b>
D0007-0.5	<b>6.02</b>
D0007-1.0	<b>3.14</b>
D0007-2.5	<b>2.44</b>
D0007-5.0	<b>3.17</b>
D0008-0.5	<b>2.78</b>
D0008-1.0	<b>3.77</b>
D0008-2.5	<b>4.28</b>
D0008-5.0	<b>2.09</b>
D0009-0.5	<b>2.94</b>
D0009-1.0	<b>2.74</b>
D0009-2.5	<b>2.77</b>
D0009-5.0	<b>3.12</b>
D0010-0.5	<b>31.9</b>
D0010-1.0	<b>3.42</b>
D0010-2.5	<b>6.18</b>
D0010-5.0	<b>3.27</b>
D0011-0.5	<b>8.35</b>
D0011-1.0	<b>4.36</b>
D0011-2.5	<b>10.1</b>
D0011-5.0	<b>2.87</b>
D0012-0.5	<b>27.3</b>
D0012-1.0	<b>10.4</b>
D0013-0.5	<b>10.3</b>
D0013-1.0	<b>5.18</b>
D0013-2.5	<b>5.66</b>
D0013-5.0	<b>2.31</b>
D0014-0.5	<b>3.2</b>
D0014-1.0	<b>2.4</b>
D0014-2.5	<b>9.86</b>
D0014-4.0	<b>2.35</b>
D0015-0.5	<b>12</b>
D0015-1.0	<b>4.55</b>
D0015-2.5	<b>3.82</b>
D0015-5.0	<b>3.24</b>
D0016-0.5	<b>7.81</b>
D0016-1.0	<b>12.4</b>
D0016-2.5	<b>5.18</b>
D0016-3.5	<b>3.94</b>
D0017-0.5	<b>5.18</b>
D0017-1.0	<b>5.61</b>
D0017-2.0	<b>6.29</b>
D0018-0.5	<b>5.51</b>
D0018-1.0	<b>3.13</b>
D0019-0.5	<b>3.99</b>

D0019-1.0	<b>2.92</b>
D0019-2.0	<b>4.48</b>
D0020-0.5	<b>9.05</b>
D0020-1.0	<b>3.48</b>
D0020-2.5	<b>4.32</b>
D0020-5.0	<b>4.09</b>
D0020-0.5	<b>4.69</b>
D0020-1.0	<b>2.58</b>
D0020-2.5	<b>2.34</b>
D0020-5.0	<b>3.39</b>
D0022-0.5	<b>3.77</b>
D0022-1.0	<b>4.08</b>
D0023-0.5	<b>41</b>
D0023-1.0	<b>3.9</b>
D0023-2.5	<b>3.79</b>
D0023-5.0	<b>4.29</b>
D0024-0.5	<b>3.29</b>
D0024-1.0	<b>4.19</b>
D0024-2.5	<b>4.47</b>
D0024-4.0	<b>3.39</b>
D0025-0.5	<b>6.66</b>
D0025-1.0	<b>3.09</b>
D0025-2.5	<b>5.47</b>
D0025-5.0	<b>1.98</b>
D0026-0.5	<b>14.6</b>
D0026-1.0	<b>2.61</b>
D0026-2.5	<b>3.4</b>
D0026-4.0	<b>2.07</b>
D0027-0.5	<b>9.3</b>
D0027-1.0	<b>3.28</b>
D0027-2.5	<b>3.15</b>
D0028-0.5	<b>124</b>
D0028-1.0	<b>5.72</b>
D0028-2.5	<b>24.2</b>
D0028-5.0	<b>5.77</b>
D0029-0.5	<b>5.39</b>
D0029-1.0	<b>3.96</b>
D0029-2.5	<b>9.85</b>
D0029-5.0	<b>14.4</b>
D0030-0.5	<b>5.61</b>
D0030-1.0	<b>4.81</b>
D0030-2.5	<b>6.02</b>
D0030-5.0	<b>4.96</b>
D0031-0.5	<b>4.35</b>
D0031-1.0	<b>5.64</b>
D0031-2.5	<b>6.08</b>

D0031-5.0	<b>12.3</b>
D0032-0.5	<b>4.71</b>
D0032-1.0	<b>5.76</b>
D0032-2.5	<b>5.09</b>
D0032-5.0	<b>5.17</b>
D0033-0.5	<b>4.67</b>
D0033-1.0	<b>4.7</b>
D0033-2.5	<b>4.86</b>
D0033-5.0	<b>2.12</b>
D0034-0.5	<b>5.79</b>
D0034-1.0	<b>4.62</b>
D0034-2.5	<b>2.68</b>
D0034-5.0	<b>2.54</b>
D0035-0.5	<b>4.77</b>
D0035-1.0	<b>4.86</b>
D0035-2.5	<b>4.46</b>
D0035-5.0	<b>6.18</b>
D0036-0.5	<b>4.48</b>
D0036-1.0	<b>5.21</b>
D0036-2.5	<b>4.01</b>
D0036-5.0	<b>5.81</b>
D0037-0.5	<b>5.42</b>
D0037-1.0	<b>4.28</b>
D0037-2.5	<b>3.35</b>
D0037-5.0	<b>6.01</b>
D0038-0.5	<b>5.14</b>
D0038-1.0	<b>7</b>
D0038-2.5	<b>7.38</b>
D0038-5.0	<b>4.78</b>
D0039-0.5	<b>7.04</b>
D0039-1.0	<b>7.48</b>
D0039-2.5	<b>4.76</b>
D0039-5.0	<b>8.36</b>
D0040-0.5	<b>5.91</b>
D0040-1.0	<b>5.53</b>
D0040-2.5	<b>5.42</b>
D0040-5.0	<b>3.14</b>
D0041-0.5	<b>4.71</b>
D0041-1.0	<b>5.12</b>
D0041-2.5	<b>4.68</b>
D0041-5.0	<b>3.94</b>
D0042-0.5	<b>8.52</b>
D0042-1.0	<b>3.77</b>
D0042-2.5	<b>3.69</b>
D0042-5.0	<b>4.14</b>
D0043-0.5	<b>4.34</b>

D0043-1.0	<b>7.32</b>
D0043-2.5	<b>3.73</b>
D0043-5.0	<b>5.62</b>
D0044-0.5	<b>4.14</b>
D0044-1.0	<b>2.96</b>
D0044-2.5	<b>3.21</b>
D0044-5.0	<b>3.47</b>
HA-1-N-0.5	<b>2.0</b>
HA-1-N-2	<b>1.0</b>
HA-2-N-1	<b>2.5</b>
HA-2-N-3	<b>1.2</b>
HA-3-N-0.5	<b>8.0</b>
HA-3-N-2	<b>3.5</b>
HA-4-N-1	<b>2.7</b>
HA-4-N-3	<b>1.0</b>
HA-5-N-0.5	<b>7.5</b>
HA-5-N-2	<b>1.2</b>
HA-6-N-1	<b>2.1</b>
HA-6-N-3	<b>1.5</b>
HA-7-N-0.5	<b>1.7</b>
HA-7-N-2	<b>3.5</b>
HA-8-N-1	<b>1.9</b>
HA-8-N-3	<b>1.2</b>
HA-9-N-0.5	<b>30</b>
HA-9-N-2	<b>2.0</b>
HA-10-N-1	<b>1.1</b>
HA-10-N-3	<b>2.1</b>
HA-11-N-0.5	<b>19</b>
HA-11-N-2	<b>7.7</b>
HA-12-N-1	<b>1.0</b>
HA-12-N-3	<b>2.0</b>
HA-13-N-0.5	<b>2.2</b>
HA-13-N-2	<b>1.5</b>
HA-14-N-1	<b>4.9</b>
HA-14-N-3	<b>5.4</b>
HA-15-N-0.5	<b>1.0</b>
HA-15-N-2	<b>4.2</b>
HA-16-N-1	<b>22</b>
HA-16-N-3	<b>1.9</b>
HA-17-N-0.5	<b>13</b>
HA-17-N-2	<b>7.4</b>
HA-18-N-1	<b>4.9</b>
HA-18-N-3	<b>5.7</b>
HA-19-N-0.5	<b>8.9</b>
HA-19-N-2	<b>2.5</b>
HA-20-N-1	<b>4.4</b>

HA-20-N-3	<b>3.4</b>
HA-21-N-0.5	<b>2.1</b>
HA-21-N-2	<b>1.1</b>
HA-22-N-1	<b>1.0</b>
HA-22-N-3	<b>1.3</b>
HA-23-N-0.5	<b>3.4</b>
HA-23-N-2	<b>3.0</b>
HA-24-N-1	<b>21</b>
HA-24-N-3	<b>9.6</b>
HA-25-N-0.5	<b>1.0</b>
HA-25-N-2	<b>2.7</b>
HA-26-N-1	<b>1.2</b>
HA-26-N-3	<b>4.3</b>
HA-27-N-0.5	<b>6.4</b>
HA-27-N-2	<b>4.7</b>
HA-28-N-1	<b>16</b>
HA-28-N-3	<b>8.4</b>
HA-29-N-0.5	<b>4.3</b>
HA-29-N-2	<b>3.4</b>
HA-30-N-1	<b>37</b>
HA-30-N-3	<b>17</b>
HA-31-N-0.5	<b>13</b>
HA-31-N-2	<b>3.7</b>
HA-32-N-1	<b>1.1</b>
HA-32-N-3	<b>1.0</b>
HA-33-N-0.5	<b>3.9</b>
HA-33-N-2	<b>2.5</b>
HA-34-S-1	<b>5.0</b>
HA-34-S-3	<b>10</b>
HA-35-S-0.5	<b>1.5</b>
HA-35-S-2	<b>1.6</b>
HA-36-S-1	<b>1.0</b>
HA-36-S-3	<b>1.0</b>
HA-37-S-0.5	<b>2.5</b>
HA-37-S-2	<b>1.8</b>
HA-38-S-1	<b>2.6</b>
HA-38-S-3	<b>7.4</b>
HA-39-S-0.5	<b>1.0</b>
HA-39-S-2	<b>1.0</b>
HA-40-S-1	<b>1.0</b>
HA-40-S-3	<b>1.0</b>
HA-41-S-0.5	<b>3.9</b>
HA-41-S-2	<b>1.0</b>
HA-42-S-1	<b>2.9</b>
HA-42-S-3	<b>1.6</b>
HA-43-S-0.5	<b>1.0</b>



HA-43-S-2	<b>2.2</b>
HA-44-S-1	<b>1.0</b>
HA-44-S-3	<b>1.0</b>
HA-45-S-0.5	<b>1.0</b>
HA-45-S-2	<b>1.0</b>
HA-46-S-1	<b>2.8</b>
HA-46-S-3	<b>1.0</b>
HA-47-S-0.5	<b>6.3</b>
HA-47-S-2	<b>1.0</b>
HA-48-S-1	<b>1.0</b>
HA-48-S-3	<b>1.8</b>
HA-49-S-0.5	<b>41</b>
HA-49-S-2	<b>11</b>
HA-50-S-1	<b>1.9</b>
HA-50-S-2	<b>1.0</b>
HA-51-S-0.5	<b>1.0</b>
HA-51-S-2	<b>1.0</b>
HA-52-S-1	<b>2.3</b>
HA-52-S-3	<b>8.1</b>
HA-53-S-0.5	<b>1.9</b>
HA-53-S-2	<b>1.0</b>
HA-54-S-1	<b>1.0</b>
HA-54-S-3	<b>1.0</b>
HA-55-S-0.5	<b>4.2</b>
HA-55-S-2	<b>1.1</b>
HA-56-S-1	<b>3.3</b>
HA-56-S-3	<b>1.0</b>
HA-57-S-0.5	<b>3.4</b>
HA-57-S-2	<b>1.2</b>
HA-58-S-1	<b>1.5</b>
HA-58-S-3	<b>1.6</b>
HA-59-S-0.5	<b>2.5</b>
HA-59-S-2	<b>1.0</b>
HA-60-S-1	<b>2.3</b>
HA-60-S-3	<b>4.6</b>
HA-61-S-0.5	<b>1.0</b>
HA-61-S-2	<b>1.0</b>
HA-62-S-1	<b>1.1</b>
HA-62-S-3	<b>1.0</b>
HA-63-S-0.5	<b>1.0</b>
HA-63-S-2	<b>1.0</b>
HA-64-S-1	<b>1.0</b>
HA-64-S-3	<b>2.8</b>

Sample WET-CA lead

AL-03-0.5	<b>0.306</b>
AL-03-1.0	<b>0.139</b>
AL-03-2.5	0.02
AL-03-5.0	0.02
AL-08-0.5	<b>0.078</b>
AL-08-1.0	<b>0.266</b>
AL-08-2.5	<b>0.218</b>
AL-08-5.0	0.02
AL-10-1.0	<b>0.870</b>
AL-12-0.5	<b>0.426</b>
AL-12-1.0	0.02
AL-12-2.5	0.02
AL-12-5.0	0.02
AL-17-0.5	<b>0.106</b>
AL-17-1.0	0.02
AL-17-2.5	0.02
AL-17-5.0	0.02
AL-25-0.5	0.02
AL-25-1.0	0.02
AL-25-2.5	0.02
AL-25-5.0	0.02
AL-26-0.5	<b>7.53</b>
AL-30-0.5	<b>1.83</b>
AL-30-1.0	<b>0.099</b>
AL-30-2.5	<b>0.057</b>
AL-30-5.0	<b>0.054</b>
AL-37-0.5	<b>4.89</b>
AL-42-0.5	<b>0.407</b>
AL-42-1.0	<b>0.05</b>
AL-42-2.5	0.02
AL-42-5.0	0.02
AL-52-0.5	<b>0.139</b>
AL-52-1.0	0.02
AL-52a-0.5	<b>0.084</b>
AL-52a-1.0	0.02
AL-58-1.0	<b>0.303</b>
AL-58a-0.5	<b>8.02</b>
AL-65-0.5	<b>0.668</b>
AL-65-1.0	<b>0.386</b>
AL-65-2.5	<b>5.54</b>
AL-65-3.0	<b>2.39</b>
AL-69-1.0	<b>12.0</b>
AL-69-2.5	<b>8.22</b>
AL-78-0.5	<b>0.157</b>
AL-78-1.0	<b>0.073</b>

AL-78-2.0	<b>0.063</b>
AL-81-0.5	0.02
AL-81-1.0	0.02
AL-81-2.5	0.02
AL-81-3.0	0.02
AL-93-0.5	<b>0.789</b>
AL-93-1.0	<b>0.070</b>
AL-93-2.5	<b>0.205</b>
AL-96-1.0	<b>1.96</b>
AL-98-1.0	0.02
AL-127-0.5	<b>0.283</b>
AL-127-1.0	<b>1.09</b>
AL-127a-0.5	<b>1.20</b>
AL-127a-1.0	<b>0.412</b>
AL-129-0.5	<b>0.464</b>
AL-136-0.5	0.02
AL-136-1.0	<b>0.742</b>
AL-136-2.5	0.02
AL-136-5.0	0.02
AL-138-1.0	<b>3.66</b>
AL-138a-1.0	<b>3.24</b>
D0036-2.5	<b>1.05</b>
A001-0.5	0.05
A002-2.5	0.05
A006-5.0	0.05
A007-2.5	0.05
A008-0.5	0.05
A008-5.0	0.05
A012-2.5	0.05
A015-5.0	0.05
A017-1.0	0.05
B003-0.5	<b>0.086</b>
B009-1.0	0.05
B010-5.0	0.05
B013-5.0	0.05
B017-5.0	0.05
B019-0.5	<b>0.112</b>
B019-1.0	0.05
B021-0.5	<b>0.127</b>
B022-5.0	0.05
B023-5.0	0.05
B024-5.0	0.05
B029-0.5	<b>0.063</b>
C0002-0.5	<b>0.623</b>
C0006-0.5	<b>0.586</b>
C0007-0.5	<b>0.246</b>

C0008-1.0	0.62
C0013-2.5	0.05
C0014-2.5	<b>0.114</b>
C0016-0.5	<b>0.215</b>
C0017-1.0	0.05
C0023-2.5	<b>0.413</b>
C0024-2.5	<0.05
C0026-0.5	<b>0.088</b>
C0026-5.0	0.05
C0027-2.5	0.05
C0035-0.5	<b>0.208</b>
C0037-0.5	<b>0.209</b>
C0038-0.5	<b>0.56</b>
C0042-5.0	<b>0.061</b>
C0043-5.0	<b>0.087</b>
D0005-0.5	0.05
D0007-5.0	0.05
D0010-1.0	0.05
D0015-0.5	<b>0.496</b>
D0016-0.5	<b>0.176</b>
D0017-0.5	0.05
D0017-2.0	0.05
D0020-0.5	<b>0.347</b>
D0020-0.5	<b>0.347</b>
D0020-5.0	0.05
D0022-1.0	0.05
D0028-0.5	<b>0.284</b>
D0028-2.5	<b>1.4</b>
D0029-0.5	<b>0.121</b>
D0030-1.0	<b>0.131</b>
D0030-5.0	<b>0.068</b>
D0036-2.5	<b>1.05</b>
D0037-2.5	<b>0.076</b>
D0041-2.5	<b>0.17</b>
D0044-0.5	<b>0.056</b>
D0044-2.5	0.05

pH

8.31
8.10
8.02
7.97
8.07
8.12
7.53
7.44
8.21
8.37
8.44
7.52
8.33
8.40
8.23
8.37
8.15
8.47
8.22
8.48
7.53
7.97
8.02
7.89
8.36
8.42
8.20
8.53
8.28
8.25
8.56
7.90
8.23
7.65
7.74
7.67
6.78
8.1
7.95
8.34
8.04
7.97
8.41
7.71

8.2
7.86
7.58
8.42
8.4
8.44
8.61
7.36
7.6
8.02
8.14
8.03
7.44
6.97
7.81
7.55
7.66
7.32
7.98
7.81
7.64
7.58
7.77
7.76
7.63
7.59
8.1
8.16
7.18
7.04
7.13
7.51
7.72
7.63
7.68
7.18
8.03
8.02
8
8.54
8.36
8.49
8.4
6.73
6.6
6.41



WET-DI

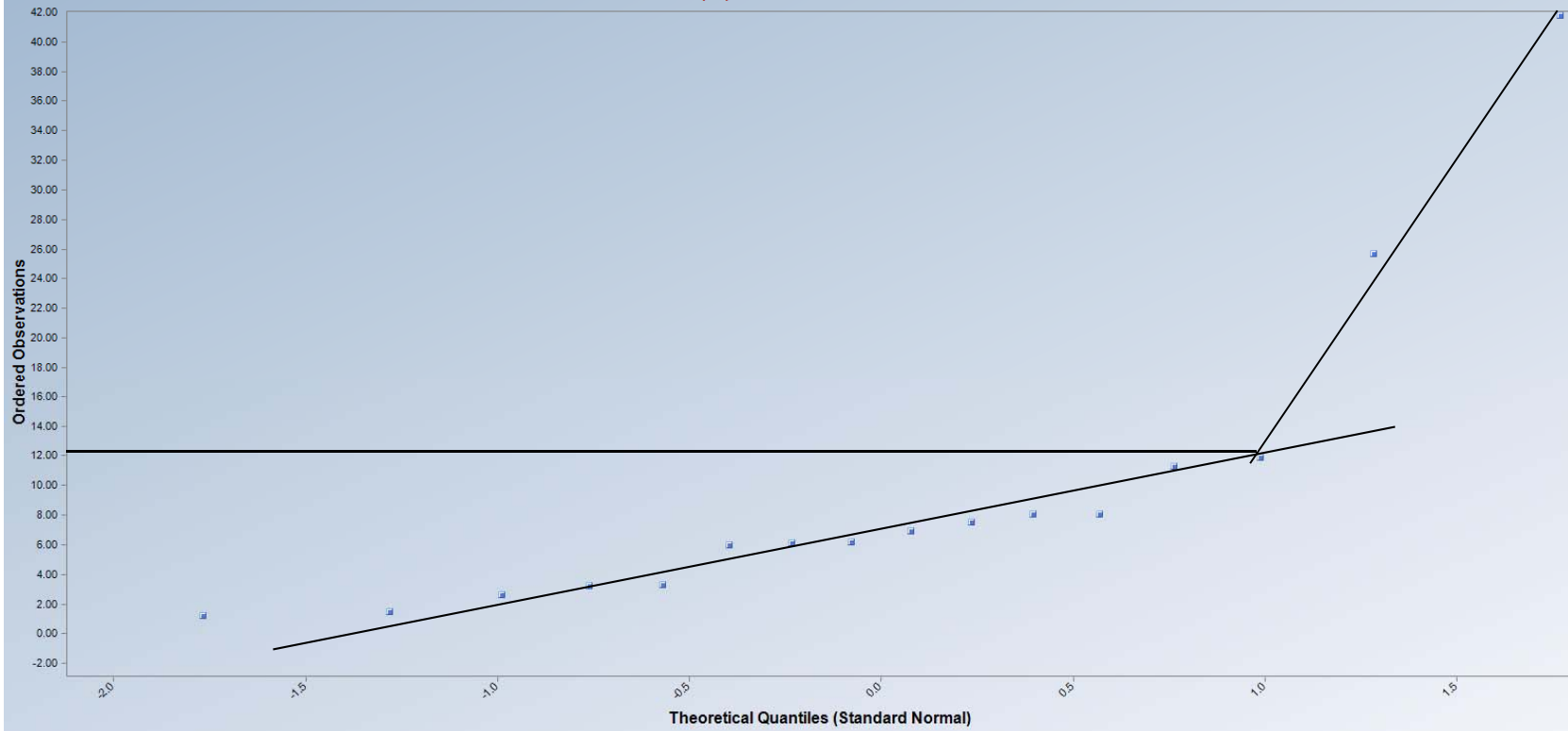
0.020
0.020
0.020
0.020
0.146
0.050
0.179
0.173
0.050
0.050
0.050
0.224
0.050
0.080
0.010
0.010
0.580
0.380
0.340
0.045



A	B	C	D	E	F	G	H	I	J	K	L
1				<b>Gamma UCL Statistics for Full Data Sets</b>							
2	<b>User Selected Options</b>										
3	From File		arsenic.wst								
4	Full Precision		OFF								
5	Confidence Coefficient		95%								
6	Number of Bootstrap Operations		2000								
7											
8											
9	<b>TTLc arsenic</b>										
10											
11	Number of Valid Observations			16							
12	Number of Distinct Observations			16							
13	Minimum			1.2							
14	Maximum			41.8							
15	Mean			9.464							
16	Geometric Mean			6.256							
17	Median			6.55							
18	Standard Deviation			10.4							
19	Variance			108.2							
20	Std. Error of Mean			2.6							
21	Coefficient of Variation			1.099							
22	Skewness			2.445							
23	k hat (MLE)			1.35							
24	k star (bias corrected MLE)			1.139							
25	Theta Hat (MLE)			7.009							
26	Theta star (bias corrected MLE)			8.311							
27	nu hat (MLE)			43.21							
28	nu star (based upon bias corrected estimates)			36.44							
29	MLE Mean (based upon bias corrected estimates)			9.464							
30	MLE Sd (based upon bias corrected estimates)			8.869							
31	Approximate Chi Square Value (.05)			23.62							
32	Adjusted Level of Significance			0.0335							
33	Adjusted Chi Square Value (.05)			22.45							
34											
35	Anderson-Darling Test Statistic			0.567							
36	Anderson-Darling Critical Value			0.757							
37	Kolmogorov-Smirnov Test Statistic			0.204							
38	Kolmogorov-Smirnov Critical Value			0.22							
39	Data appear Gamma distributed at 5% Significance Level										
40											
41	95% UCLs (Adjusted for Skewness)										
42	95% Adjusted-CLT UCL (Chen-1995)			15.44							
43	95% Modified-t UCL (Johnson-1978)			14.29							
44											
45	95% Non-Parametric UCLs										
46	95% Bootstrap-t UCL			21.24							
47	95% Hall's Bootstrap UCL			36.56							
48											
49	95% Gamma UCLs(Assuming Gamma Distribution)										
50	95% Approximate Gamma UCL (Use when n >= 40)			14.6							
51	95% Adjusted Gamma UCL (Use when n < 40)			15.36							
52											
53	<b>Potential UCL to Use</b>										

	A	B	C	D	E	F	G	H	I	J	K	L
54	Use Approximate Gamma UCL					14.6						
55												
56	<b>Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.</b>											
57	<b>These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)</b>											
58	<b>and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.</b>											
59												

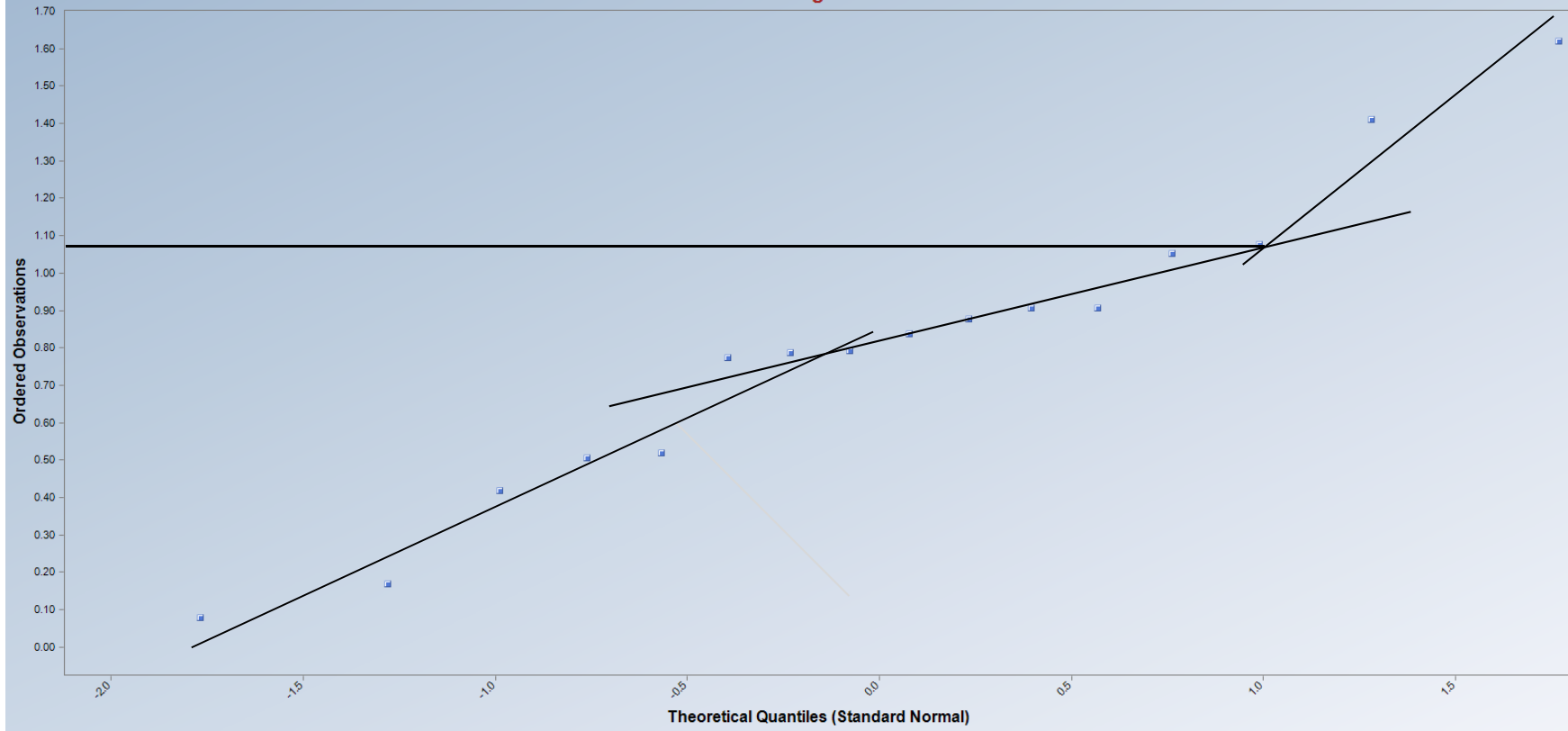
Q-Q Plot for TTLC arsenic



TTLC arsenic  
N = 16  
Mean = 9.4638  
Sd = 10.4003  
Slope = 8.8895  
Intercept = 9.4638  
Correlation, R = 0.8180

TTLCarsenic

Q-Q Plot for log TTLC arsenic



APPENDIX D

GBA GEOENVIRONMENTAL REPORT

# Important Information about This

# Geoenvironmental Report

Geoenvironmental studies are commissioned to gain information about environmental conditions on and beneath the surface of a site. The more comprehensive the study, the more reliable the assessment is likely to be. But remember: Any such assessment is to a greater or lesser extent based on professional opinions about conditions that cannot be seen or tested. Accordingly, no matter how many data are developed, risks created by unanticipated conditions will always remain. *Have realistic expectations.* Work with your geoenvironmental consultant to manage known and unknown risks. Part of that process should already have been accomplished, through the risk allocation provisions you and your geoenvironmental professional discussed and included in your contract's general terms and conditions. This document is intended to explain some of the concepts that may be included in your agreement, and to pass along information and suggestions to help you manage your risk.

## **Beware of Change; Keep Your Geoenvironmental Professional Advised**

The design of a geoenvironmental study considers a variety of factors that are subject to change. Changes can undermine the applicability of a report's findings, conclusions, and recommendations. *Advise your geoenvironmental professional about any changes you become aware of.* Geoenvironmental professionals cannot accept responsibility or liability for problems that occur because a report fails to consider conditions that did not exist when the study was designed. Ask your geoenvironmental professional about the types of changes you should be particularly alert to. Some of the most common include:

- modification of the proposed development or ownership group,
- sale or other property transfer,
- replacement of or additions to the financing entity,

- amendment of existing regulations or introduction of new ones, or
- changes in the use or condition of adjacent property.

Should you become aware of any change, *do not rely on a geoenvironmental report.* Advise your geoenvironmental professional immediately; follow the professional's advice.

## **Recognize the Impact of Time**

A geoenvironmental professional's findings, recommendations, and conclusions cannot remain valid indefinitely. The more time that passes, the more likely it is that important latent changes will occur. *Do not rely on a geoenvironmental report if too much time has elapsed since it was completed.* Ask your environmental professional to define "too much time." In the case of Phase I Environmental Site Assessments (ESAs), for example, more than 180 days after submission is generally considered "too much."

## **Prepare To Deal with Unanticipated Conditions**

The findings, recommendations, and conclusions of a Phase I ESA report typically are based on a review of historical information, interviews, a site "walkover," and other forms of noninvasive research. When site subsurface conditions are not sampled in any way, the risk of unanticipated conditions is higher than it would otherwise be.

While borings, installation of monitoring wells, and similar invasive test methods can help reduce the risk of unanticipated conditions, *do not overvalue the effectiveness of testing.* Testing provides information about actual conditions only at the precise locations where samples are taken, and only when they are taken. Your geoenvironmental

professional has applied that specific information to develop a general opinion about environmental conditions. *Actual conditions in areas not sampled may differ (sometimes sharply) from those predicted in a report.* For example, a site may contain an unregistered underground storage tank that shows no surface trace of its existence. *Even conditions in areas that were tested can change, sometimes suddenly, due to any number of events, not the least of which include occurrences at adjacent sites.* Recognize, too, that *even some conditions in tested areas may go undiscovered*, because the tests or analytical methods used were designed to detect only those conditions assumed to exist.

Manage your risks by retaining your geoenvironmental professional to work with you as the project proceeds. Establish a contingency fund or other means to enable your geoenvironmental professional to respond rapidly, in order to limit the impact of unforeseen conditions. And to help prevent any misunderstanding, identify those empowered to authorize changes and the administrative procedures that should be followed.

### **Do Not Permit Any Other Party To Rely on the Report**

Geoenvironmental professionals design their studies and prepare their reports to meet the specific needs of the clients who retain them, in light of the risk management methods that the client and geoenvironmental professional agree to, and the statutory, regulatory, or other requirements that apply. The study designed for a developer may differ sharply from one designed for a lender, insurer, public agency...or even another developer. *Unless the report specifically states otherwise, it was developed for you and only you.* Do not unilaterally permit any other party to rely on it. The report and the study underlying it may not be adequate for another party's needs, and you could be held liable for shortcomings your geoenvironmental professional was powerless to prevent or anticipate. Inform your geoenvironmental professional when you know or expect that someone else—a third-party—will want to use or rely on the report. *Do not permit third-party use or reliance until you first confer with the geoenvironmental professional who prepared the report.* Additional testing, analysis, or study may be required and, in any event, appropriate terms and conditions should be agreed to so both you and your geoenvironmental professional are protected from third-party risks. *Any party who relies on a geoenvironmental report without the express written permission of the professional who prepared it and the client for whom it was prepared may be solely liable for any problems that arise.*

### **Avoid Misinterpretation of the Report**

Design professionals and other parties may want to rely on the report in developing plans and specifications. They need to be advised, in writing, that their needs may not have been considered when the study's scope was developed, and, even if their needs were considered, they might misinterpret geoenvironmental findings, conclusions, and recommendations. *Commission your geoenvironmental professional to explain pertinent elements of the report to others who are permitted to rely on it, and to review any plans, specifications or other instruments of professional service that incorporate any of the report's findings, conclusions, or recommendations.* Your geoenvironmental professional has the best understanding of the issues involved, including the fundamental assumptions that underpinned the study's scope.

### **Give Contractors Access to the Report**

Reduce the risk of delays, claims, and disputes by giving contractors access to the full report, *providing that it is accompanied by a letter of transmittal that can protect you* by making it unquestionably clear that: 1) the study was not conducted and the report was not prepared for purposes of bid development, and 2) the findings, conclusions, and recommendations included in the report are based on a variety of opinions, inferences, and assumptions and are subject to interpretation. Use the letter to also advise contractors to consult with your geoenvironmental professional to obtain clarifications, interpretations, and guidance (a fee may be required for this service), and that—in any event—they should conduct additional studies to obtain the specific type and extent of information each prefers for preparing a bid or cost estimate. Providing access to the full report, with the appropriate caveats, helps prevent formation of adversarial attitudes and claims of concealed or differing conditions. If a contractor elects to ignore the warnings and advice in the letter of transmittal, it would do so at its own risk. Your geoenvironmental professional should be able to help you prepare an effective letter.

### **Do Not Separate Documentation from the Report**

Geoenvironmental reports often include supplemental documentation, such as maps and copies of regulatory files, permits, registrations, citations, and correspondence with regulatory agencies. If subsurface explorations were performed, the report may contain final boring logs and copies of laboratory data. If remediation activities occurred on site, the report may include: copies of daily field reports; waste manifests; and information about the disturbance of subsurface materials, the type and thickness of any fill placed on site, and fill placement practices, among other types of documentation. *Do not separate supplemental documentation from the report. Do not, and do not permit any other party to redraw or modify any of the supplemental documentation for incorporation into other professionals' instruments of service.*

### **Understand the Role of Standards**

Unless they are incorporated into statutes or regulations, standard practices and standard guides developed by the American Society for Testing and Materials (ASTM) and other recognized standards-developing organizations (SDOs) are little more than aspirational methods agreed to by a consensus of a committee. The committees that develop standards may not comprise those best-qualified to establish methods and, no matter what, no standard method can possibly consider the infinite client- and project-specific variables that fly in the face of the theoretical "standard conditions" to which standard practices and standard guides apply. In fact, these variables can be so pronounced that geoenvironmental professionals who comply with every directive of an ASTM or other standard procedure could run afoul of local custom and practice, thus violating the standard of care. Accordingly, when geoenvironmental professionals indicate in their reports that they have performed a service "in general compliance" with one standard or another, it means they have applied professional judgement in creating and implementing a scope of service designed for the specific client and project involved, and which follows some of the general precepts laid out in the referenced standard. To the extent that a report indicates "general compliance" with a standard, you may wish to speak with your geoenvironmental professional to learn more about what was and was not done. *Do not assume a given standard was followed to the letter.* Research indicates that that seldom is the case.

### **Realize That Recommendations May Not Be Final**

The technical recommendations included in a geoenvironmental report are based on assumptions about actual conditions, and so are preliminary or tentative. Final recommendations can be prepared only by observing actual conditions as they are exposed. For that reason, you should retain the geoenvironmental professional of record to observe construction and/or remediation activities on site, to permit rapid response to unanticipated conditions. *The geoenvironmental professional who prepared the report cannot assume responsibility or liability for the report's recommendations if that professional is not retained to observe relevant site operations.*

### **Understand That Geotechnical Issues Have Not Been Addressed**

Unless geotechnical engineering was specifically included in the scope of professional service, a report is not likely to relate any findings, conclusions, or recommendations about the suitability of subsurface materials for construction purposes, especially when site remediation has been accomplished through the removal, replacement, encapsulation, or chemical treatment of on-site soils. The equipment, techniques, and testing used by geotechnical engineers differ markedly from those used by geoenvironmental professionals; their education, training, and experience are also significantly different. If you plan to build on the subject site, but have not yet had a geotechnical engineering study conducted, your geoenvironmental professional should be able to provide guidance about the next steps you should take. The same firm may provide the services you need.



### **Read Responsibility Provisions Closely**

Geoenvironmental studies cannot be exact; they are based on professional judgement and opinion. Nonetheless, some clients, contractors, and others assume geoenvironmental reports are or certainly should be unerringly precise. Such assumptions have created unrealistic expectations that have led to wholly unwarranted claims and disputes. To help prevent such problems, geoenvironmental professionals have developed a number of report provisions and contract terms that explain who is responsible for what, and how risks are to be allocated. Some people mistake these for “exculpatory clauses,” that is, provisions whose purpose is to transfer one party’s rightful responsibilities and liabilities to someone else. Read the responsibility provisions included in a report and in the contract you and your geoenvironmental professional agreed to. *Responsibility provisions are not “boilerplate.”* They are important.

### **Rely on Your Geoenvironmental Professional for Additional Assistance**

Membership in the Geoprofessional Business Association exposes geoenvironmental professionals to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a geoenvironmental project. Confer with your GBA-member geoenvironmental professional for more information.



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