FOCUSED SOIL AND SOIL VAPOR SCREENING SURVEY REPORT
NEWLAND SIERRA, SAN MARCOS
SAN DIEGO COUNTY, CALIFORNIA

Prepared For:

Newland Sierra, LLC

9820 Town Centre Drive, Suite 100
San Diego, California 92121

Project No. 10618.006

July 1, 2015

Leighton and Associates, Inc.
A LEIGHTON GROUP COMPANY

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Newland Sierra, LLC
9820 Town Centre Drive, Suite 100
San Diego, California 92121

Attention: Ms. Rita Brandin

Subject: Focused Soil and Soil Vapor Screening Survey Report
Newland Sierra, San Marcos, San Diego County, California

INTRODUCTION

Leighton and Associates, Inc. (Leighton) is pleased to present Newland Sierra, LLC (Newland) this report summarizing the results of a focused soil and soil vapor screening survey for the Newland Sierra property located north of Deer Springs Road, west of Interstate 15, and east of Oaks Valley Road, in the area of San Marcos, San Diego County, California (site or subject site). Leighton understands that the subject site consists of approximately 1,985 acres proposed for a master planned community development.

Leighton has prepared this Focused Soil and Soil vapor Screening Survey Report to address specific comments and requirements for additional investigation as detailed in the referenced Hazardous Materials Review Letter (Letter) provided to Newland by the County of San Diego, Planning & Development Services, Project Planning Division (County). The Letter was prepared by County as a response to County review of a Phase I Environmental Site Assessment (ESA) Report prepared by Leighton dated 16 January 2014.

The purpose of this focused soil and soil vapor screening survey was to screen for the potential presence of hazardous substances and/or petroleum substances in 1) sites identified as illegal shooting sites involving potentially lead contaminated soil; 2) an

illegally dumped above ground storage tank (AST) containing used oil and surrounding stained soil; 3) soils located immediately to the west of the ARCO gas station on Mesa Rock Road; 4) the areas within the proposed K thru 8 school site; 5) areas of historic agricultural use that could have been impacted by historic application of organochlorine pesticides. These areas were identified in the 16 January 2014 Phase I ESA Report for the subject property. Activities were completed in accordance with the American Society for Testing and Materials (ASTM) Standard Practice for Phase II ESA Processes and the 2004 DEH SAM Manual (http://www.sdcounty.ca.gov/deh/water/sammanual.html). The focused areas of the site where borings were installed are depicted on Figure 2 and Figure 3. The results and conclusions of this report are limited to the areas investigated.

PREVIOUS ENVIRONMENTAL INVESTIGATIONS/REMEDIATION

References are provided in Appendix A.

January 2014 Phase I ESA

Leighton prepared a Phase I ESA Report dated 16 January 2014. This Focused Soil and Soil Vapor Screening Survey Report addresses specific comments and requirements for additional investigation resulting from County review of the findings from the Phase I ESA, as discussed above.

February 2015 Removal of Abandoned AST from Assessor Parcel Number 178-101-16

On behalf of Newland, Leighton oversaw the removal of one abandoned AST located on Assessor Parcel Number 178-101-16 in San Marcos, California (Figure 1 Site Location Map). Leighton provided a letter to the San Diego Department of Environmental Health (DEH) dated 30 April 2015 to provide details of the disposal actions completed to address the AST as well as copies of the waste characterization and manifest documents verifying the non-hazardous nature of the materials being disposed. On February 6, 2015 removal of visually impacted soil materials was completed under the direction of a Leighton geologist utilizing a tracked excavator and tracked skid steer tractor. Based on discussion with Mr. Brad Long, the DEH Environmental Specialist for the project, it was advised that removals of the impacted soil materials should extend until all visual indications of soil impact were removed. Removal operations were completed extending horizontally and vertically until no visual indications of petroleum

impacted soils were observed by Leighton personnel at the site. The report documenting the AST removal is provided in Appendix B.

INVESTIGATIVE METHODOLOGY

The investigative methodology developed for this project includes, and is limited to, the activities summarized below. Photographs taken during the field investigation are provided in Appendix C.

Pre-field Activities

Health and Safety Plan

A Site Specific Health and Safety Plan (HSP) was prepared for work performed at the Site. All onsite Leighton personnel signed the HSP acknowledging acceptance. The document was kept onsite at all times during the field activities. The HSP was prepared in compliance with Title 8 Section 5192 of the California Code of Regulations (CCR), and the Occupational Safety and Health Administration (OSHA) Chapter 29 of the Code of Federal Regulations (29 CFR) 1910.120.

Underground Services Alert

Underground Service Alert (USA; aka DigAlert) was contacted 48-hours prior to commencement of fieldwork to mark the location of public utilities that may enter the Site from nearby streets. The locations of the proposed borings were clearly marked in white paint or white flags prior to contacting USA.

Permits

A permit was not required from the DEH for the types of temporary shallow soil borings and temporary soil vapor probes installed during the survey.

Field Activities

Soil Investigation

On 21 May 2015, twenty (20) soil borings (SA-1-1 through SA-4-2 and A1 through A11) were advanced using hand auger equipment at locations depicted on Figure 3. Soil borings SA-1-1 through SA-4-2 were advanced to a depth of 18 inches bgs. Soil borings A1 through A11 were advanced to a depth of 6 inches bgs. Soil samples were

collected at 6 and 18 inches bgs. Soil samples were retained in 4 or 8 ounce glass jars. Each sample was labeled with sample point identification, and placed in an ice-cooled chest for temporary storage. The soil samples were submitted to a State of California Certified Laboratory for analysis under standard chain-of-custody documentation. The soil samples were analyzed for Title 22 metals using EPA method 6010B/7471A and Organochlorine Pesticides (OCPs) using EPA method 8081A.

On 19 June 2015, borings SVP-1 through SVP-5 were advanced using direct-push, truck-mounted equipment at the locations depicted on Figure 2. Soil borings SVP-1 through SVP-3 were advanced to a maximum depth of 5 feet bgs (depth of practical refusal). SVP-4 was advance to 9.5 feet bgs and SVP-5 was advanced to 12 feet bgs (depth of practical refusal). The purpose of the Soil Vapor Probe (SVP) borings was to facilitate installation of temporary soil vapor probes to sample soil vapor only and soil samples were not collected.

All non-disposable drilling and/or sampling equipment was decontaminated between boreholes by washing in a non-phosphate detergent and rinsing with deionized water.

Soil Vapor Survey

Soil vapor samples were collected from SVP-1 through SVP-5 on 19 June 2015.

Upon reaching the total depth of the borings, soil vapor probes were installed in each of the boreholes at the desired depth(s). Deeper soil vapor samples could not be collected from borings SVP-1 through SVP-5 because the drill rig met refusal on bedrock material around the total boring depth and could not be advanced further. The soil vapor probes were installed and sampled in general accordance with current ASTM "Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessments Process" E1527-13, the 2004 DEH Site Assessment and Mitigation (SAM) Manual, and the Department of Toxic Substances Control (DTSC) April, 2012 Advisory Active Soil Gas Investigations. The soil vapor probes installed using direct push equipment (SVP-1 through SVP-5) were allowed to equilibrate for two hours prior to soil vapor sampling.

At each sampling location an electric vacuum pump (set to draw 0.200 liters/min of soil vapor at a maximum vacuum of 100-inches of water) or dedicated disposable syringe was attached to the probe for purging prior to sampling. Soil vapor samples were obtained by drawing the sample through a luer lock connection which connects the sampling probe to the sample container.

A tracer gas/leak check compound (1,1-Difluoroethane) was applied to the soil vapor probes at each point of connection in which ambient air could potentially enter the sampling system. These points include the top of the sampling probe where the tubing meets the probe connection and the surface bentonite seals. No leaks were detected during the soil vapor sampling.

A purge volume test was conducted at the start of the soil vapor survey in order to determine the optimal purge volume for sampling. Duplicate soil vapor samples were obtained for soil vapor analyses from the gas chromatograph mass spectrometer instrument.

After sampling soil vapor, the probe tubing was pulled from the ground and the borings were backfilled with a cement and bentonite grout slurry, as needed.

Laboratory Analyses

A mobile laboratory (H&P Mobile Geochemistry) analyzed soil vapor samples onsite during the soil vapor survey conducted on 19 June 2015. Soil vapor samples were injected into the onsite mobile laboratory gas chromatograph/purge and trap system after collection. Samples were analyzed for the tracer gas, volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH) as gasoline by modified EPA Method 8260B with a laboratory reporting limit at or below the standard vapor reporting limits specified in the SAM Manual.

Soil samples were transported to a stationary laboratory for analysis (Eurofins-Calscience). Soil samples were analyzed for Title 22 metals by EPA method 6010B/7471A and OCPs by EPA Method 8081A.

Investigation-Derived Wastes (IDW)

No significant drill cuttings or other IDW were produced during the investigation activities conducted on 21 May 2015 and 19 June 2015.

INVESTIGATIVE RESULTS

Geologic and Hydrogeologic Conditions

Shallow soils encountered during the investigation consisted primarily of weathered bedrock derived silty sand and coarse sands and gravels. Stained or odorous soil was

not observed or noted. During boring advancement, the direct push drill rig met refusal in borings SVP-1 through SVP-5 at the total boring depth between 5 and 12 feet bgs. Groundwater was not encountered at any of the sample locations.

Analytical Results of Soil Samples

The laboratory analytical reports and chain-of-custody documentation are presented in Appendix D. The analytical test results for soil samples are summarized in Table 1. The soil sample analytical results were compared to U.S. EPA Region 9 Regional Screening Levels (RSLs) established for industrial and residential soil (January 2015), and Department of Toxics and Substances Control (DTSC) arsenic background levels established for Southern California school sites (DTSC January 16, 2008).

OCPs – OCPs were not detected above their respective laboratory method reporting limits in any of the soil samples analyzed.

Title 22 Metals – With the exception of arsenic and lead, metals were not detected at concentrations exceeding the U.S. EPA Region 9 RSLs referenced above. Arsenic levels were below California background concentrations. Total lead exceeded 80 milligrams per kilogram (mg/kg) in three soil samples obtained from areas where illegal shooting had occurred. The Threshold Limit Concentrations (TTLC) for total lead in boring SA2-1 at depths of 6 inches bgs and 18 inches bgs and in boring SA4-1 at a depth of 6 inches bgs were 1740, 337 and 983 mg/kg, respectively.

Samples with elevated lead were further analyzed by the Toxicity Characteristic Leaching Procedure (TCLP) or the Soluble Threshold Limit Concentration (STLC), which are used to determine if a waste is considered hazardous for disposal considerations. The leaching procedures, known as the TTLC and STLC methods, are intended to simulate the conditions that may be present in a landfill where water may pass through the landfill waste and travel into the groundwater, carrying the soluble materials with it. TCLP is designed to determine the mobility of analytes present in liquid, solid, and multiphase wastes. The soil at the subject site is not usually subject to landfill-type conditions. The TCLP and STLC results indicate that if waste soil is generated in the vicinity of SA2-1 and SA4-1, it should be segregated and further evaluated to determine if it needs to be handled and disposed as hazardous waste.

Leighton recommends limited excavation and further investigation of the SA2-1 and SA4-1 areas to refine the limits of the lead impacted soil.

Analytical Results of Soil Vapor Samples

The laboratory analytical reports are presented in Appendix D. The analytical test results for soil vapor samples are summarized in Table 2. On 19 June 2015, Leighton conducted soil vapor sampling. Benzene was detected in two soil vapor probes (Figure 2) and no other VOCs or TPH were detected in soil vapor. The laboratory analytical reports are presented in Appendix D.

Benzene - Benzene was detected in SVP-2 at 5 feet bgs and SVP-5 at 12 feet bgs, at concentrations of 0.15 and 0.10 micrograms per liter (µg/L), respectively. The California Human Health Screening Levels (CHHSL) for benzene in soil vapor are 0.085 µg/L and 0.28 µg/L for residential and commercial land use scenarios, respectively. The benzene detections in the two probes slightly exceed the residential CHHSL screening level.

No other VOCs or TPH were detected above their respective laboratory method reporting limits in any of the soil vapor samples analyzed.

SAM Vapor Intrusion Model – Soil Vapor Spreadsheet - Human Health Risk Assessment

Using the County of San Diego Department of Environmental Health's (SDDEH) Vapor Risk Assessment Model (revised July 29, 2010), Leighton calculated the indoor vapor intrusion risk. The risk was calculated considering exposure to a child in a residential vapor risk exposure scenario as this scenario represents the most conservative scenario. The vapor risk assessment was performed for the following VOCs that were detected during the current soil vapor study (Table 2):

- 0.15 µg/L of benzene at 5 feet bgs
- 0.10 µg/L of benzene at 12 feet bgs

Assumptions:

- A residential child exposure scenario was used in which a child's exposure is 24 hours/day, 7 days/week for 30 years.
- An exchange rate of 0.5 exchanges per hour was used.
- The slab attenuation factor value of 0.01 was used assuming an engineered concrete slab.

Both carcinogenic and non-carcinogenic health risks were estimated. The DEH criterion used in this human health risk assessment is one in a million (1.0E-06). Non-carcinogenic toxicity is estimated by comparing the estimated dose to the dose required to trigger chronic toxicity. A value exceeding 1.0 is considered significant.

The estimated cancer risk from the human risk assessment is:

- 1.90E-07 for benzene in soil vapor at 5 feet bgs
- 5.29E-08 for benzene in soil vapor at 12 feet bgs

No other VOCs were detected in soil vapor samples. Based on these results, the maximum total cumulative cancer risk was calculated to be 1.90E-07 (i.e., excess lifetime cancer risk of 1.90 in a population of 10,000,000), which was less than the DEH criterion of 1.0E-06 (or excess lifetime cancer risk of 1 in a 1,000,000 population). Hence, the calculated cumulative carcinogenic risk from potential indoor vapor intrusion is within the acceptable range.

The calculated hazard index (HI) is:

- 5.16E-04 for benzene in soil vapor at 5 feet bgs
- 1.43E-04 for benzene in soil vapor at 12 feet bgs

Based on these results, the maximum cumulative non-carcinogenic hazard index was calculated to be 0.000516, which was significantly lower than the DEH criterion of 1.0. Based upon the calculated values, it appears no significant hazard is posed to residential occupants due to potential indoor vapor intrusion under the assumed conditions.

The human health risk calculation print outs are included in Appendix E.

CONCLUSIONS AND RECOMMENDATIONS

The purpose of the Focused Soil and Soil Vapor Screening Survey was to screen for the potential presence of hazardous substances and/or petroleum substances in 1) sites identified as illegal shooting sites involving lead contaminated soil; 2) above ground storage tank (AST) containing used oil and surrounding stained soil; 3) soils bordering along the ARCO gas station on Mesa Rock Road; 4) the areas within the proposed K

thru 8 school site; 5) areas of historic agricultural use that could have a significant impact on Newland's plans to redevelop the Site.

Although initially included in the specific comments and requirements for additional investigation as detailed in the referenced Hazardous Materials Review Letter provided to Newland by the County of San Diego, Planning & Development Services, Project Planning Division, further investigation of the proposed school site was deemed by DEH to be a separate issue and was removed from the requirements of the current investigation. As such, no sampling or laboratory analysis was completed in the area of the proposed K-8 school site.

With the exception of arsenic and lead, metals were not detected at concentrations exceeding the U.S. EPA Region 9 RSLs. Arsenic levels were below California background concentrations. Total lead exceeded 80 mg/kg in three samples. The Threshold Limit Concentration (TTLC) for total lead in boring SA2-1 at depths of 6 inches bgs and 18 inches bgs and in boring SA4-1 at a depth of 6 inches bgs were 1740, 337 and 983 mg/kg, respectively.

The lead RSL exceedances in the illegal shooting areas appear to be scattered and limited to shallow soil in these areas. The results of the laboratory analyses suggest that the lead exceedances detected could be directly related to sampling bias from minute pieces of lead projectile in specific samples.

The abandoned AST and surrounding stained soil was removed and disposed of in accordance with the requirements of the DEH Hazardous Materials Division and a report was submitted to DEH under separate cover dated April 30, 2015. A copy of this report is included as Appendix B. The County has approved no further action in this area.

With the exception of benzene, no VOCs or TPH were detected in soil vapor samples near the ARCO gas station on Mesa Rock Road. Soil vapor analytical results for benzene were compared to residential CHHSLs and applied to the SAM Vapor Intrusion Model and indicated that Benzene was not detected at concentrations that would pose a significant human health risk in a residential setting. Based on the result of the soil vapor survey, additional investigation is not warranted at this time for the areas investigated.

Based upon the results of this focused soil and soil vapor investigation, Leighton recommends the following:

- Further investigation of the SA2-1 and SA4-1 areas may be warranted based on future development plans to delineate the vertical and horizontal extant of lead impacted soil in these areas where illegal target shooting has occurred. Soil generated in the vicinity of SA2-1 and SA4-1 should be segregated and evaluated with regard to concentrations of lead to determine if it potentially needs to be handled and disposed as hazardous waste.

- No additional soil vapor sampling in the areas investigated near the ARCO gas station on Mesa Rock Road.

LIMITATIONS

This focused soil and soil vapor investigation was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.

The observations and conclusions presented in this report are professional opinions based on the scope of activities, work schedule, and information obtained through the activities described herein, and are limited to the portion of the Site investigated. Opinions presented herein apply to property conditions existing at the time of our study and cannot necessarily be taken to apply to property conditions outside of the area investigated or changes that we are not aware of or have not had the opportunity to evaluate. It must be recognized that conclusions drawn from these data are limited to the portion of the site investigated, and the amount, type, distribution, and integrity of the information collected at the time of the investigation, and the methods utilized to collect and evaluate the data. Although Leighton has taken steps to obtain true copies of available information, we make no representation or warranty with respect to the accuracy or completeness of the information provided by others.

We appreciate the opportunity to assist Newland for this project. Please do not hesitate to call the undersigned if you have any questions regarding this report.

Respectfully submitted,

LEIGHTON AND ASSOCIATES, INC.

Julie Harriman, PE 83894
Associate Engineer

Kevin Bryan, PG 6950
Senior Principal Geologist

JCH/KB/lr

Attachments: Figure 1 – Site Location Map
Figure 2 – Site Plan with Soil Gas Data
Figure 3 – Site Plan with Soil Boring Locations
Table 1 – Summary of Soil Analytical Results – Title 22 Metals and OCPs
Table 2 – Summary of Soil Vapor Analytical Results
Appendix A – References
Appendix B – Report of Removal of Abandoned Above Ground Storage Tank, San Diego Department of Environmental Health Record #DEH2014-HHIRT-001443, Assessor's Parcel Number 178-101-16, San Marcos, California
Appendix C – Photographs
Appendix D – May and June 2015 Focused Soil and Soil vapor Survey – Laboratory Test Results and Chain-of-Custody Documents
Appendix E – Human Health Risk Calculation Printouts

Distribution: (1) Addressee

Leighton

Legend

Approximate Site Boundary with Assesor Parcel Number

1722201400
1722201600
1722201800
1720910700
1742100700
1741901300
1741901200
1742801100
1742801400
1741901200
1741902000
1742900200
1741904300
1741904100
1742100100
1742201800
1742100800
1742101700
1742100500
1741904400
1742110500
1742110600
1742110700
1742110400
1781010100
1862501300
1781011700
1866110100
1781011600
1781012500
1781012600
1781012700
1781012800
1866111100
1782210900
1781000500
1781002600
1866110900
1866110800
1866111700
1866111400
1866112000
1866110700
1866111500
1866111600
1820202800
1820202900
1782221600
1820040900
1820040800
1820040600
1875405900
1875405100
1875404900

N

0 1,500 3,000

Feet

Project: 10618.006	Eng/Geol:
Scale:1 " = 1,500 '	Date: June 2015

Base Map: ESRI ArcGIS Online 2015
Thematic Information: Leighton
Author: Leighton Geomatics (asakowicz)

SITE LOCATION MAP

Newland Sierra
San Marcos, California

Figure 1

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Map Saved as V:\Drafting\10618\006\Maps\10618_006_F01_SLM_2015_6_29.mxd on 6/30/2015 11:17:34 AM

SVP ID	Depth (ft-bgs)	Benzene (µg/l)	Other VOCs
SV-1	5	<0.10	ND

SVP ID	Depth (ft-bgs)	Benzene (µg/l)	Other VOCs
SV-2	5	**0.15**	ND

SVP ID	Depth (ft-bgs)	Benzene (µg/l)	Other VOCs
SV-3	5	<0.10	ND
SV-3 Rep	5	<0.10	ND

SVP ID	Depth (ft-bgs)	Benzene (µg/l)	Other VOCs
SV-4	5	<0.10	ND
	9.5	<0.10	ND

SVP ID	Depth (ft-bgs)	Benzene (µg/l)	Other VOCs
SV-5	5	<0.10	ND
	12 1PV	**0.10**	ND
	12 3PV	<0.10	ND
	12 4PV	<0.10	ND

Project: 10618.006	Eng/Geol:
Scale:1 " = 100 '	Date: June 2015

Base Map: ESRI ArcGIS Online 2015
Thematic Information: Leighton
Author: Leighton Geomatics (asakowicz)

SITE PLAN WITH SOIL GAS DATA

Newland Sierra, LLC
APN 189-611-16-00
Escondidio, CA 92026

Figure 2

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Map Saved as V:\Drafting\10618\006\Maps\10618_006_F02_SPSGD_2015_5_18.mxd on 6/30/2015 7:38:28 AM

Legend

- Approximate Site Boundary
- Parcels
- Approximate Soil Boring Locations

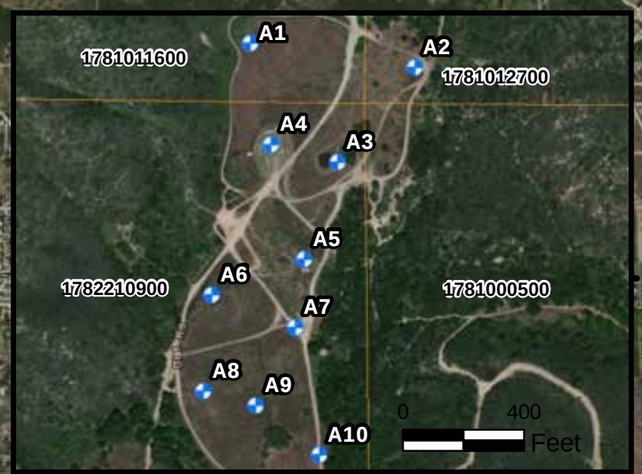
SA2-1

SA2-3
SA2-2
SA3-2
SA3-1
SA3-3

SA1-1

SA4-2
SA4-1

A11



N

0 2,100 4,200
Feet

Project: 10618.006	Eng/Geol:
Scale:1 " = 2,000 '	Date: June 2015

Base Map: ESRI ArcGIS Online 2015
Thematic Information: Leighton
Author: Leighton Geomatics (asakowicz)

SITE PLAN WITH SOIL BORING LOCATIONS

Newland Sierra
San Marcos, California

Figure 3

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TABLE 1
Summary of Soil Analytical Results - Title 22 Metals and OCPs
Newland Sierra, San Marcos, California

Sample ID	Sample Date	Sample Type	Matrix	Title 22 Metals (mg/kg or mg/L)																	OCPs (µg/kg)
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (Total)	Cobalt	Copper	Lead	Lead STLC	Lead TCLP	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
Grid Samples																							
SA1-1 @ 6"	5/21/2015	O	Soil	<0.743	**2.10**	**24.4**	<0.248	<0.495	**1.48**	**1.48**	**8.00**	**9.87**	--	--	<0.0806	**0.698**	**0.759**	<0.743	<0.248	<0.743	**6.64**	**13.1**	--
SA1-1 @ 18"	5/21/2015	O	Soil	**1.11**	**3.00**	**40.0**	**0.352**	<0.490	**4.30**	**2.50**	**7.80**	**29.4**	--	--	<0.0847	**0.699**	**2.33**	**0.903**	<0.245	<0.735	**11.8**	**14.9**	--
SA2-1 @ 6"	5/21/2015	O	Soil	**7.63**	**3.22**	**53.1**	**0.262**	<0.515	**2.65**	**3.54**	**21.4**	**1740**	**211**	**54.1**	<0.0820	**0.335**	**1.69**	**0.898**	<0.258	<0.773	**18.7**	**82.6**	--
SA2-1 @ 18"	5/21/2015	O	Soil	**1.14**	**1.83**	**39.9**	<0.249	<0.498	**1.06**	**3.68**	**0.874**	**337**	**36.1**	**8.82**	<0.0833	<0.249	**0.731**	<0.746	<0.249	<0.746	**13.6**	**22.7**	--
SA2-2 @ 6"	5/21/2015	O	Soil	**0.960**	**1.19**	**31.4**	<0.246	<0.493	**1.95**	**2.33**	**9.49**	**77.8**	1.38	--	<0.0833	**0.401**	**5.22**	<0.739	<0.246	<0.739	**13.6**	**20.1**	--
SA2-2 @ 18"	5/21/2015	O	Soil	**1.58**	**2.30**	**40.7**	<0.250	<0.500	**1.49**	**5.39**	**0.866**	**17.9**	--	--	<0.0847	**1.24**	**0.772**	**0.976**	<0.250	<0.750	**27.2**	**30.8**	--
SA2-3 @ 6"	5/21/2015	O	Soil	<0.735	**1.20**	**47.7**	<0.245	<0.490	**4.83**	**3.64**	**1.62**	**52.5**	1.43	--	<0.0806	**0.268**	**3.32**	**0.941**	<0.245	<0.735	**14.9**	**11.8**	--
SA2-3 @ 18"	5/21/2015	O	Soil	<0.732	**2.30**	**48.8**	**0.308**	<0.488	**4.69**	**7.40**	<0.488	**8.67**	--	--	<0.0820	**0.346**	**2.48**	<0.732	<0.244	<0.732	**20.0**	**9.03**	--
SA3-1 @ 6"	5/21/2015	O	Soil	**1.23**	**3.35**	**116**	**0.406**	<0.498	**6.73**	**5.15**	**1.48**	**13.8**	--	--	<0.0833	**0.286**	**3.99**	**1.76**	<0.249	<0.746	**23.0**	**22.1**	--
SA3-1 @ 18"	5/21/2015	O	Soil	<0.732	**2.54**	**72.8**	**0.390**	<0.488	**5.83**	**4.88**	**1.18**	**7.88**	--	--	<0.0833	**0.411**	**3.52**	<0.732	<0.244	<0.732	**21.6**	**20.5**	--
SA3-2 @ 6"	5/21/2015	O	Soil	<0.750	**1.95**	**143**	**0.361**	<0.500	**5.02**	**4.64**	**1.93**	**5.31**	--	--	<0.0820	<0.250	**3.37**	<0.750	<0.250	<0.750	**16.8**	**21.7**	--
SA3-2 @ 18"	5/21/2015	O	Soil	**0.901**	**3.68**	**124**	**0.530**	<0.493	**7.97**	**6.24**	**2.85**	**6.93**	--	--	<0.0847	**0.406**	**5.17**	<0.739	<0.246	<0.739	**26.9**	**25.5**	--
SA3-3 @ 6"	5/21/2015	O	Soil	<0.750	**2.13**	**59.1**	**0.390**	<0.500	**5.85**	**5.01**	**0.621**	**24.5**	--	--	<0.0847	<0.250	**3.27**	<0.750	<0.250	<0.750	**24.6**	**22.8**	--
SA3-3 @ 18"	5/21/2015	O	Soil	**0.961**	**1.81**	**37.0**	**0.289**	<0.498	**2.37**	**3.95**	<0.498	**7.88**	--	--	<0.0820	<0.249	**1.27**	<0.746	<0.249	<0.746	**18.8**	**21.4**	--
SA4-1 @ 6"	5/21/2015	O	Soil	**4.63**	**3.28**	**30.1**	**0.365**	<0.493	**0.347**	**1.05**	**10.6**	**983**	**171**	**144**	<0.0833	<0.246	**0.274**	<0.739	<0.246	<0.739	**1.83**	**19.5**	--
SA4-1 @ 18"	5/21/2015	O	Soil	<0.725	**1.48**	**19.1**	**0.325**	<0.483	**0.242**	**0.963**	<0.483	**39.2**	--	--	<0.0833	<0.242	**0.269**	<0.725	<0.242	<0.725	**1.89**	**10.7**	--
SA4-2 @ 6"	5/21/2015	O	Soil	**0.866**	**1.43**	**51.1**	**0.340**	<0.490	**1.27**	**2.29**	<0.490	**34.0**	--	--	<0.0847	<0.245	**0.877**	**0.841**	<0.245	<0.735	**5.84**	**17.6**	--
SA4-2 @ 18"	5/21/2015	O	Soil	**0.956**	**1.18**	**39.5**	<0.244	<0.488	**0.674**	**1.78**	<0.488	**71.4**	**24.7**	--	<0.0820	<0.244	**1.08**	<0.732	<0.244	<0.732	**3.83**	**15.4**	--
A1 @ 6"	5/21/2015	O	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
A2 @ 6"	5/21/2015	O	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
A3 @ 6"	5/21/2015	O	Soil	<0.743	**0.870**	**73.6**	<0.248	<0.495	**3.42**	**4.23**	**0.943**	**11.7**			<0.0833	**0.300**	**2.27**	<0.743	<0.248	<0.743	**15.5**	**20.3**	ND
A4 @ 6"	5/21/2015	O	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
A5 @ 6"	5/21/2015	O	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
A6 @ 6"	5/21/2015	O	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
A7 @ 6"	5/21/2015	O	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
A8 @ 6"	5/21/2015	O	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
A9 @ 6"	5/21/2015	O	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
A10 @ 6"	5/21/2015	O	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
A11 @ 6"	5/21/2015	O	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
Screening Criteria																							
DTSC HERO Note 3				--	--	--	--	--	--	--	--	80*	--	--	--	--	--	--	--	--	--	--	--
EPA Region 9 Residential RSL (mg/kg)				31	0.67	15,000	160	70	120,000***	23	3,100	400	--	--	9.4	390	1,500	390	390	0.78	390	23,000	--
Southern California Background Concentration (mg/kg)				--	12**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
STLC (mg/L)				31	0.67	15,000	160	70	120,000***	23	3,100	400	5.0	--	9.4	390	1,500	390	390	0.78	390	23,000	--
TCLP (mg/L)				--	12**	--	--	--	--	--	--	--	--	5.0	--	--	--	--	--	--	--	--	--

Notes:

O = Orignial Sample
D = Duplicate Sample (duplicate of sample listed above in table)
ND = Not detected above laboratory reporting limit
RSL = USEPA Regional Screening Level (January 2015)
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
* = DTSC Office of Human and Ecological Risk (HERO) Note Number 3 (DTSC, 2014)
** = DTSC Determination of a Southern California Regional Background Arsenic Concentration in Soil (DTSC, 2008)
*** = RSL for Chromium III
<0.248 = Not detected above laboratory reporting limit as shown
-- = Not analyzed or not applicable
STLC = Soluble threshold limit concentration
TCLP = Toxicity characteristic leaching potential
OCPs = Organochlorine pesticides
Bold concentrations were detected above laboratory reporting limit

TABLE 2
Summary of Soil Vapor Analytical Results
Newland Sierra, San Marcos, California

Sample ID	Sample Date	Matrix	Units	LCC	Benzene	DIPE	ETBE	Ethylbenzene	MTBE	m,p-Xylene	o-Xylene	TAME	TBA	Toluene	TPHv (C5 - C12)	Other VOCs
SV1-5'	6/19/2015	Soil Gas	µg/l	<0.5	<0.1	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<1.0	<200	ND
SV2-5'	6/19/2015	Soil Gas	µg/l	<0.5	**0.15**	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<1.0	<200	ND
SV3-5'	6/19/2015	Soil Gas	µg/l	<0.5	<0.1	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<1.0	<200	ND
SV3-5' Rep	6/19/2015	Soil Gas	µg/l	<0.5	<0.1	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<1.0	<200	ND
SV4-5'	6/19/2015	Soil Gas	µg/l	<0.5	<0.1	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<1.0	<200	ND
SV4-9.5'	6/19/2015	Soil Gas	µg/l	<0.5	<0.1	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<1.0	<200	ND
SV5-5'	6/19/2015	Soil Gas	µg/l	<0.5	<0.1	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<1.0	<200	ND
SV5-12' 1PV	6/19/2015	Soil Gas	µg/l	<0.5	**0.10**	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<1.0	<200	ND
SV5-12' 3PV	6/19/2015	Soil Gas	µg/l	<0.5	<0.1	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<1.0	<200	ND
SV5-12' 10PV	6/19/2015	Soil Gas	µg/l	<0.5	<0.1	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<1.0	<200	ND

Notes:

REP = Duplicate Sample (duplicate of sample listed above in table)
µg/L = Micrograms per liter
<0.50 = Not detected above laboratory reporting limit as shown
LCC = Leak check compound, '1,1-Difluoroethane
DIPE = Diisopropyl ether
ETBE = Ethyl tert-butyl ether
MTBE = Methyl tertiary-butyl ether
TAME = Tertiary-amyl methyl ether
TBA = Tertiary-butyl alcohol
PV = Purge volume
ND = Not detected above laboratory reporting limit
Bold concentrations were detected above the laboratory reporting limit
No concentrations were detected above screening levels
One purge volume sampled, determined at SV5-12'

APPENDIX A

REFERENCES

APPENDIX A

References

Department of Toxic Substances Control (DTSC), Determination of a Southern California Regional Background Arsenic Concentration in Soil, by G. Chernoff, W. Bosan, and D. Oudiz, 2008.

DTSC Advisory - Active Soil Gas Investigations, by R. Abbasi, E. Allen, B. Bosan, and P. Chandler, 2012.

Environmental Protection Agency (EPA) Region 9, Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, January 2015.

Leighton and Associates, Inc., 2014, Phase I Environmental Site Assessment, Newland Sierra, San Marcos, San Diego County, California, dated 16 January 2014.

Leighton and Associates, Inc., 2015, AST Removal Letter, letter to the San Diego Department of Environmental Health (DEH), 30 April 2015

APPENDIX B

REPORT OF REMOVAL OF ABANDONED ABOVE GROUND STORAGE TANK, SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH RECORD #DEH2014-HHIRT-001443, ASSESSOR'S PARCEL NUMBER 178-101-16, SAN MARCOS, CALIFORNIA

Leighton

Leighton and Associates, Inc.
A LEIGHTON GROUP COMPANY

April 30, 2015

Project Number: 10618.005

San Diego Department of Environmental Health
Hazardous Materials Division
P.O. Box 129261
San Diego, CA 92112-9261

Attention: Mr. Brad Long, EHS III

Subject: Report of Removal of Abandoned Above Ground Storage Tank, San Diego Department of Environmental Health Record # DEH2014-HHIRT-001443, Assessor Parcel Number 178-101-16, San Marco, California

INTRODUCTION

On behalf of Newland Sierra, LLC (Newland), Leighton and Associates, Inc., (Leighton) is pleased to present this report documenting the actions taken to address the removal of an abandoned above ground storage tank (AST) located on Assessor Parcel Number 178-101-16 in San Marco, California (Figure 1 Site Location Map). This letter provides the details of the disposal actions completed to address the AST as well as copies of the waste characterization and manifest documents verifying the non-hazardous nature of the materials being disposed.

BACKGROUND

In January 2015, Newland received an "Official Notice" (Record # DEH2014-HHIRT-001443) from the San Diego Department of Environmental Health (DEH) stating that on December 22, 2014, a representative from DEH observed an AST located on Assessor Parcel Number 178-101-16 in San Marco, California. As stated in the notice, the AST was located in open space (undeveloped land) approximately 1 mile past the end of Joni Lane and was on its side and appeared to have lost several gallons of oil. The DEH health specialist performed field tests which confirmed that the used oil portion of the contents remaining in the AST was non-chlorinated used oil. The notice stated that the owner of the subject site is responsible for removing the AST and any appurtenances

and the associated stained soil in accordance with regulatory requirements. A copy of the official notice from DEH is attached to this report.

Leighton was contracted by Newland (property owner) to provide environmental consulting services associated with the removal of the AST and associated impacted materials under the review and approval of the DEH.

AST REMOVAL AND DISPOSAL OPERATIONS

On February 5, 2015 a representative of Leighton was onsite to observe the removal of the contents of the AST as well as the removal of the AST itself. A representative of the San Marcos Fire Department (SMFD) was also present at the site to confirm the removal of the AST under SMFD Permit # FIRE15-00084. A copy of the SMFD Field Inspection Record is attached with this report. Approximately 70 gallons of used oil and 25 gallons of rinseate was removed from the 250 gallon tank and stored in US Department of Transportation (DOT) approved 55-gallon steel drums pending results of laboratory analyses for waste characterization and disposal. The liquid wastes were identified as “Non-RCRA Hazardous Wastes, Liquid (oily water)” and transported under Uniform Hazardous Waste Manifest (manifest) #011174631 JJK by Pacific Trans Environmental Services, Inc., to the U.S. Ecology facility located at Highway 95, 12 miles South of Beatty, NV 89003. A copy of the waste manifest is attached with this report. The AST was purged of potentially flammable vapors using 5-lbs of dry ice and the lower explosive level (LEL) of the tank atmosphere measured prior to disposal. The LEL was measure and documented as 0% by the SMFD prior to removal and disposal of the AST from the site. The single walled, welded steel, AST was removed by truck from the site for recycling at Pacific Steel Inc. (PSI) located at 1700 Cleveland Avenue, National City, CA, 91950 under Certificate Number 174083. A copy of the PSI weighmaster certificate is attached with this report.

On February 6, 2015 removal of visually impacted soil materials was completed under the direction of a Leighton representative utilizing a tracked excavator and tracked skid steer tractor. Based on discussion with Mr. Brad Long, the DEH Environmental Specialist for the project, it was advised that removals of the impacted soil materials should extend until all visual indications of soil impact were removed. Removal operations were completed until no obvious signs of visual impacts were observed by Leighton personnel at the site. Representative site photographs depicting the soil conditions encountered during the excavation are attached with this report. Approximately 23 tons (± 14 cubic yards) of potentially impacted soil material was removed from the area previously identified by the DEH environmental specialist where

the AST was previously located. Due to the difficulty associated with accessing the location of the impacted soil material with a dump truck, the soil materials were temporarily stockpiled onsite at a location more easily accessible for subsequent sampling and offsite disposal. The stockpiled soil materials were sampled and laboratory analyses completed in order to characterize the material for offsite disposal. Laboratory analyses indicated that the materials could be characterized as “Non-hazardous petroleum contaminated soil (Diesel and Waste Oil). The soil material has been accepted for disposal under special waste profile # 4531-15-4607at the Republic Services facility located at 1700 Maxwell Rd, Chula Vista, CA 91911. A copy of the Republic Services Special Waste Profile and waste transport manifest are attached with this report. Copies of the laboratory data used to profile the waste materials are attached with this report.

On behalf of Newland Sierra, LLC, Leighton Consulting, Inc. is respectfully requesting that based on the results of the removal and disposal actions detailed in this report, DEH provide written closure of this matter.

Please do not hesitate to contact the undersigned should you have any questions or comments.

Respectfully submitted,

LEIGHTON AND ASSOCIATES, INC.

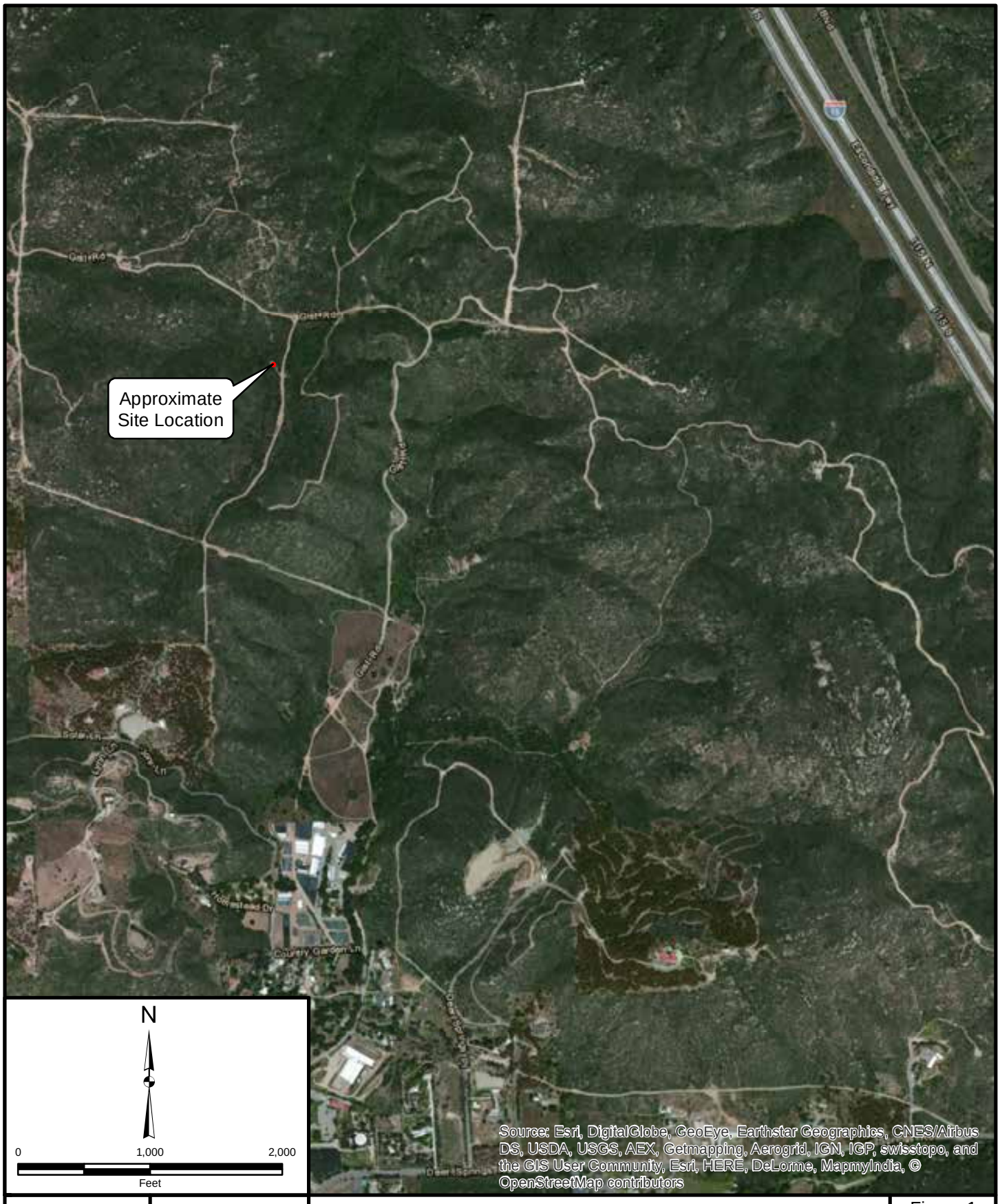
Kevin Bryan, PG, CEG
Senior Principal Geologist

Bryan Voss, PG
Project Geologist

Figure - Figure 1 Site Location Map

Attachments: Site Photographs
DEH Official Notice
SMFD Field Inspection Record
PSI Weighmaster Certificate
Republic Services Special Waste Profile
Waste Manifests
Laboratory Data

Distribution: (1) Addressee via email, brad.long@sdcounty.ca.gov
(1) Newland Real Estate Group Attn: Ms. Rita Brandin



Project: 10618.005	Eng/Geol: BEV
Scale: 1 " = 1,000 '	Date: April 2015

Base Map: ESRI ArcGIS Online 2015
Thematic Information: Leighton
Author: (mmurphy)

SITE LOCATION MAP

Newland Sierra, LLC
APN 178-101-16
San Marcos, California

Figure 1

Leighton

Map Saved as V:\drafting\10618\005\Maps\10618-005_F01_SLM_2015-04-30.mxd on 4/30/2015 2:27:05 PM

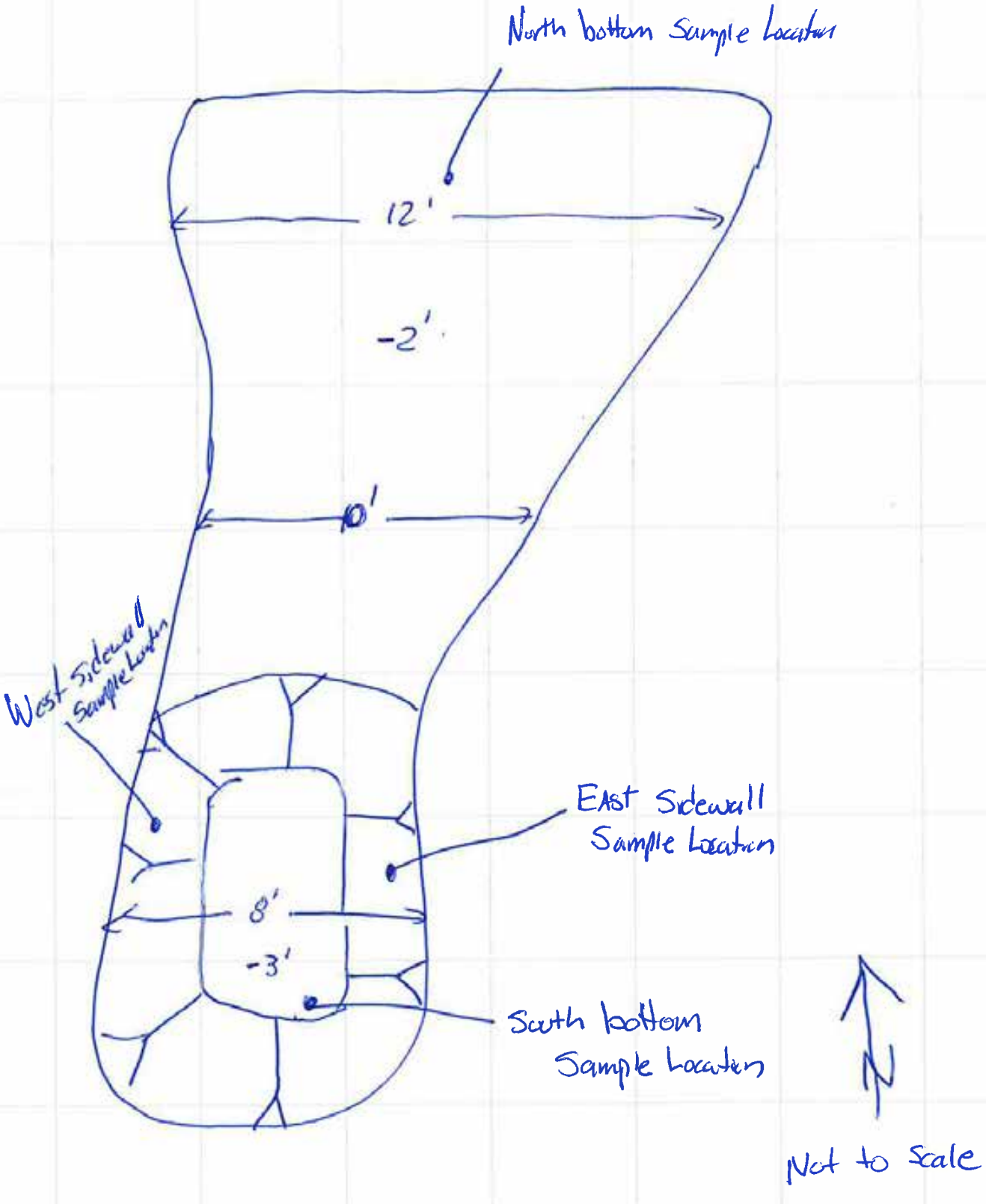
Leighton

Description: Sample location of AST removal.

Project Name: Newland Steel

Project No.: 10618.005

Date 2/6/15 By: BV Page 1 of 1



SITE PHOTOGRAPHS

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **February 5, 2015**	
Client Name: **Newland Sierra, LLC**	**Site Location:** **APN 178-101-16, San Marcos, CA**	**Project No.** **10618.005**

Photo No. 1 **View Direction of Photo:** Northwest **Description:** View of triple rinsing the AST.	

Photo No. 2 **View Direction of Photo:** Northwest **Description:** View of AST, used oil, and rinseate 55-gallon drums loaded on trailer for disposal.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **February 5, 2015**	
Client Name: **Newland Sierra, LLC**	**Site Location:** **APN 178-101-16, San Marcos, CA**	**Project No.** **10618.005**

Photo No. 3 **View Direction of Photo:** North **Description:** View of the excavation limits. Note: no visible stained soil was observed in the sidewall and bottom excavations.	

Photo No. 4 **View Direction of Photo:** South **Description:** View of the excavation limits. Note: no visible stained soil was observed in the sidewall and bottom excavations.	

DEH OFFICIAL NOTICE

COUNTY OF SAN DIEGO

OFFICIAL NOTICE ~~NOTICE OF VIOLATION~~

PAGE 1 OF 2	DATE 12/23/2014
RECORD #	DEH2014-HHIRT-001443
TIME START	END
SPECIALIST	B Long
INSPECTION CONTACT	
TITLE	EHS III
PHONE	858-505-6852

FACILITY NAME APN 178-101-1600

ADDRESS N of Joni RD, San Marcos, Ca 92069

CITY/ZIP /

OWNER'S NAME NEWLAND SIERRA L L C PHONE

OWNER'S ADDRESS 9820 TOWNE CENTRE DR #100*SAN DIEGO CA\, CITY/ZIP / 92121

On the above date, the County inspected your business/facility/property under the authority of the California Health and Safety Code (H&SC), to determine compliance with applicable provisions of the H&SC, the California Code of Regulations (CCR), and the San Diego County Code of Regulatory Ordinances (SDCC). **The following statements describe conditions which are violations of the law or that require further investigation.** These observations require a formal response or immediate corrective action be taken, or both. Failure to correct violations or to provide information requested in a timely manner may be a factor in determining the course of further legal action.

On December 22 at approximately 9 AM DEH HIRT investigated the abandon above ground storage tank. The tank was abandoned in an open space approximately 1 mile past the end of Joni Lane in San Marcos, see Map. The tank was on its side and appeared to have lost several gallons of used oil. The tank was upbraided a sample of the contents collected and field tested. The tank contains approximately 35 gallon of used oil and water. Field testing indicated that the used oil portion of the contents was non-chlorinated used oil. The openings in the tank were secured to prevent rain water intrusion, and further release. Based on the location of a tank and soil staining it appears the tank was abandon sometime in the past two years. No markings on the tank were found to indicate who the responsible party, was or who owns the tank. The tank was marked with the contents of the letter will be sent to the property owner for removal of the tank, tank contents and contaminated soil.

Be Advised:

- Waste oil has been defined as a hazardous waste; Health and Safety code Section 25189(d).
- The property owner is ultimately responsible for any hazardous substances that are stored or discharged there. This is in accordance with Title 42 of the United States Code, Section 9607.
- You may self-haul the hazardous waste (Used Oil and Water) to a House Hold hazardous Waste facility; see the attached curtesy list for your Community. Call to get approval.
- For disposal of the contaminated soils you will likely need assistance of a Registered Hazardous Waste Hauler/Cleanup contractor See the attached curtesy list for companies. You may need an EPA I\D number see the attached handout for guidance. Also included is a handout for General hazardous waste requirements.
- Once the tanks us completely empty it may be re-sued of disposed of as scrap metal.

Specialist should verify the identification of facility representative using a standard form of ID (e.g., CDL#, CA ID# or DOB).

PRINTED NAME OF FACILITY REPRESENTATIVE — DATE SIGNED

SIGNATURE OF FACILITY REPRESENTATIVE — TITLE OF FACILITY REPRESENTATIVE

X

SIGNATURE OF ENVIRONMENTAL HEALTH SPECIALIST — DATE SIGNED

Brad Long — 12/23/14

You must submit a written response within 30 days (or as specified) addressing all violations noted. The written response must demonstrate all violations have been corrected or include a written notice of disagreement that clearly states the reason for any disputed violations. The County may initiate formal enforcement action including the imposition of substantial penalties for any significant violations addressed in this notice. Any violations that are not promptly corrected will result in liability for additional days in violation and additional penalties. Any failure to provide the information requested will also be a factor in determining penalties. For these purposes, "significant violations" include violations that represent a significant threat to human health or safety or the environment, chronic violations, violations committed by a recalcitrant violator and Class I hazardous waste violations (CCR 66260.10 and H&SC 25110.8.5).

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
Phone: (858) 505-6880 Toll Free: (800) 253-9933 http://www.sdcdeh.org

COUNTY OF SAN DIEGO

SUPPLEMENTAL COMPLIANCE INSPECTION REPORT

PERMIT # DEH2014-HHIRT-001443
DATE 12/23/2014

FACILITY ADDRESS: N of Joni RD, San Marcos, Ca 92069 ZIP CODE: _____

Corrective Action:

- Within 5 Days sign and return a copy of this Official Notice, to acknowledge receipt.
- Within 30 days remove the tank and properly dispose of the contents (Used Oil and Water) as Hazardous Waste.
- Within 10 days of disposal of the used oil and contaminated soils as a hazardous waste, send a copy of the Hazardous Waste Manifests or a letter documenting how the waste was disposed of, to this office attention Brad long.

If you have any difficulty in locating an appropriate disposal site for your wastes, or if you have any questions concerning this matter, please call this office Monday through Friday from 9:00 a.m. to 4:00 p.m. at (858) 505-6852.

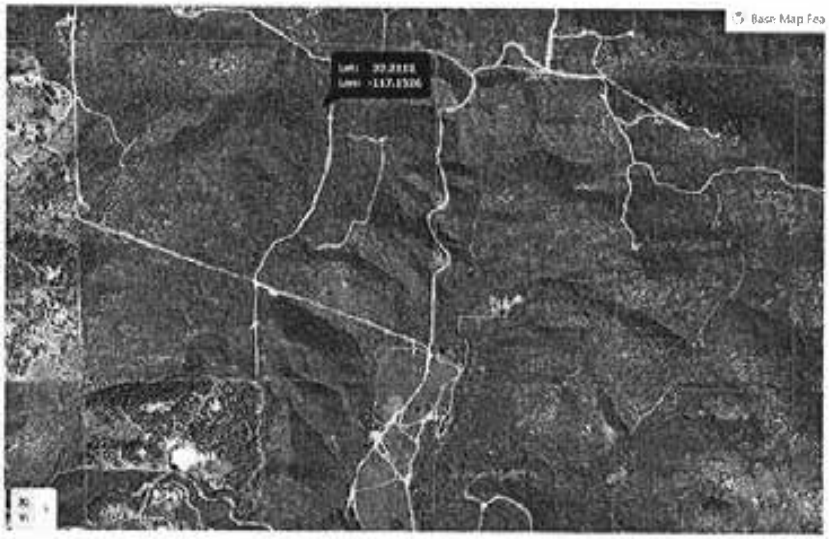
SIGNATURE OF FACILITY REPRESENTATIVE **DATE SIGNED** **TITLE OF FACILITY REPRESENTATIVE**

DEH2014-HHIRT-001443 On December 22 at approximately 9 AM DEH HIRT investigated the abandon above ground storage tank. The tank was abandoned in an open space approximately 1 mile past the end of Joni Lane in San Marcos, see Map. The tank was on its side and appeared to have lost several gallons of used oil. The tank was upbraided a sample of the contents collected and field tested. The tank contains approximately 35 gallon of used oil and water. Field testing indicated that the used oil portion of the contents was non-chlorinated used oil. The openings in the tank were secured to prevent rain water intrusion, and further release. Based on the location of a tank and soil staining it appears the tank was abandon sometime in the past two years. No markings on the tank were found to indicate who the responsible party, was or who owns the tank. The tank was marked with the contents of the letter will be sent to the property owner for removal of the tank, tank contents and contaminated soil.

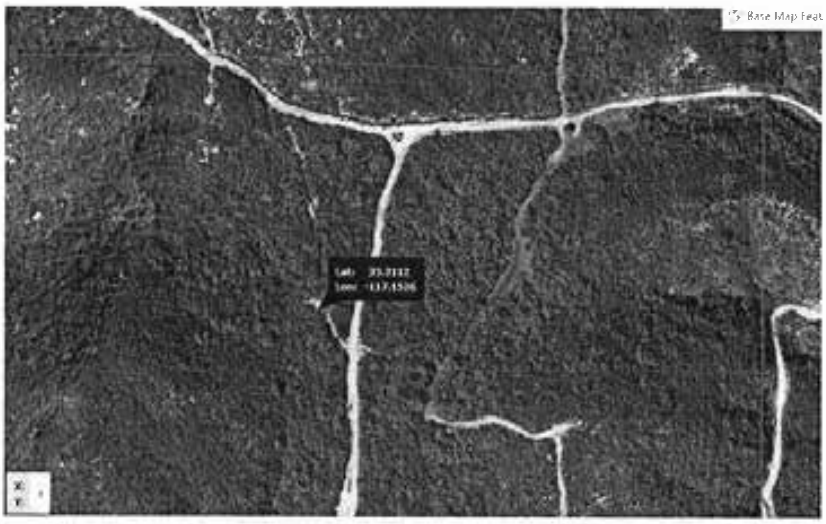
Photos By Brad Long

oVERVIEW

oVERVIEW 1



oVERVIEW 3

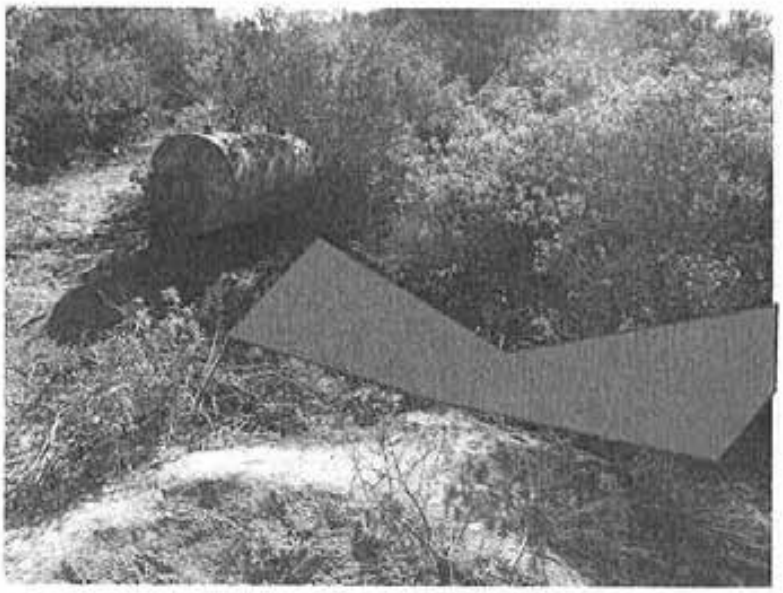


oVERVIEW 4- Marked the turnoff with Caution Tape

Tank, as found

Tank, as found with two open ports, stained soil shows release.

Tank was uprighted and the openings were secured



Area of contaminated soils

IMG_0999

Field Test Results- show the oil does not contain chlorinated solvents

SMFD FIELD INSPECTION RECORD

San Marcos
Fire Department

Inspection Line:
760-744-1050 ext 3408
or
www.san-marcos.net

ADDRESS: 0 GIST RD
OWNER: NEWLAND SIERRA L L C
TYPE: FIRE
DESCRIPTION OF WORK:
ABOVE GROUND TANK REMOVAL

PERMIT #: FIRE15-00084

FIELD INSPECTION RECORD

	Inspector	Date		Inspector	Date		Inspector	Date
UNDERGROUND			**FIRE SPRINKLER**			**FIRE ALARM**		
Thrust Block			Sprinkler Hydro			Alarm Rough Wiring		
Underground Hydro			Final Sprinkler			Final Fire Alarm		
Underground Flush			Over Head TI					
Final Underground			Final Sprinkler TI					
SPECIAL SUPPRESSION			**OTHER**					
Hood Acceptance Test			ABOVE GROUND TANK		2-5-15			
Other								

NOTES

250 GALLON TANK
2-5-15

SLES DRY ICE
REMOVED @ 70 GALLONS USED OIL
@ 25 GALLONS RINSE H2O
LEL @ 0 = METER

PSI WEIGHMASTER CERTIFICATES

This is to certify that the following described commodity was weighed, measured, or counted by a Weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (Commencing with section 12700) of Division 5 of the California Business and Professions code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

WEIGHMASTER CERTIFICATE

PACIFIC STEEL INC.

1700 CLEVELAND AVENUE
NATIONAL CITY, CALIFORNIA 91950
(619) 474-7081

PEDDLERSD
JOSHUA SCOTT FIELD
374 HEVX ST

SPRING VALLEY CA 91977

DATE: 02/05/2015 01:56:25 PM

VENDOR REFERENCE: 7N30027

TICKET NUMBER: 207879

CONTRACT NUMBER: 207879

CERTIFICATE NUMBER: 174083

COMMODITY	DESCRIPTION	GROSS lbs.	TARE lbs.	NET lbs.	PRICE	AMOUNT
HMSU#1SD	HSM # 1 UNPREPARED	11,180	10,800	380	100.00 / NT	19.00
			Totals	380		19.00

WEIGHMASTER: _____

NT = Net Ton = 2000 lbs. • GT = Gross Ton = 2240 lbs. • MT = Metric Ton = 2204.6 lbs.

I HEREBY CERTIFY THAT I AM THE LAWFUL OWNER OF THE ABOVE MATERIAL, AND THIS MATERIAL IS FREE OF ENCUMBRANCES AND THAT I AM OF LEGAL AGE.

ACCEPTED: _____
CUSTOMER SIGNATURE

REPUBLIC SERVICES SPECIAL WASTE PROFILE

REPUBLIC SERVICES SPECIAL WASTE PROFILE

Requested Disposal Facility: 4531 Otay LF CA

Waste Profile #
Sales Rep #:

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

Generator Name: Newland Sierra, LLC			
Generator Site Address: APN: 178-101-1600 | N. or Joni Rd.			
City: San Marcos	County: San Diego	State: California	Zip: 92069
State ID/Reg No:	State Approval/Waste Code: (if applicable)		NAICS # :
Generator Mailing Address (if different): ☑ 9820 Towne Center Drive, Suite 100			
City: San Diego	County: San Diego	State: California	Zip: 92121
Generator Contact Name: Rita G. Brandin		Email: rbrandin@newlandco.com	
Phone Number: (858) 875-8219	Ext:	Fax Number:	

II. Billing Information

Bill To: Siboney Contracting Co.		Contact Name: Don Johnson	
Billing Address: 1450 Centrepark Blvd. Suite 100		Email: djohnson@siboneycc.com	
City: West Palm Beach	State: FL	Zip: 33401	Phone: (619) 990-4443

III. Waste Stream Information

Name of Waste:	Non-hazardous petroleum contaminated soil (Diesel and Waste Oil)
Process Generating Waste:	Waste soils generated from excavation. Source of contamination is suspected from above ground storage tanks (A.S.T.)
Type of Waste:	☐ INDUSTRIAL PROCESS WASTE ☑ POLLUTION CONTROL WASTE
Physical State:	☑ SOLID ☐ SEMI-SOLID ☐ POWDER ☐ LIQUID
Method of Shipment:	☑ BULK ☐ DRUM ☐ BAGGED ☐ OTHER:
Estimated Annual Volume:	100 Cubic Yards
Frequency:	☑ ONE TIME ☐ ONGOING
Disposal Consideration:	☑ LANDFILL ☐ SOLIDIFICATION ☐ BIOREMEDIATION

IV. Representative Sample Certification

☐ NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	☑ YES or ☐ NO
Type of Sample: ☐ COMPOSITE SAMPLE ☑ GRAB SAMPLE	
Sample Date: 02/09/2015	
SP-1 to SP-4. 96-hour Fishbioassy conducted on SP-3 and SP-4.	

REPUBLIC SERVICES **SPECIAL WASTE PROFILE**

Waste Profile #

V. Physical Characteristics of Waste

Characteristic Components	% by Weight (range)
1. Soil	99.999
2. Petroleum hydrocarbons: diesel and waste oil	0.001
3.	
4.	
5.	

Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
Brown	None	☐ YES or ☑ NO	100	Neutral	N/A °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes or ☑ No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	☐ Yes or ☑ No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes or ☑ No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes or ☑ No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	☐ Yes or ☑ No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes or ☑ No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes or ☑ No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes or ☑ No
Is this waste a reactive or heat generating waste?	☐ Yes or ☑ No
Does the waste contain sulfur or sulfur by-products?	☐ Yes or ☑ No
Is this waste generated at a Federal Superfund Clean Up Site?	☐ Yes or ☑ No
Is this waste from a TSD facility, TSD like facility or consolidator?	☐ Yes or ☑ No

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Rita G. Brandin, Senior Vice President, Development Director	Newland Sierra, LLC
Authorized Representative Name And Title (Type or Print)	Company Name
Authorized Representative Signature	Date

REPUBLIC SERVICES

SPECIAL WASTE PROFILE – CHANGE

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

This form may be used to request changes to an existing Special Waste Profile.			
Generator Name:	Newland Sierra, LLC		
Name of Waste:	Non-Haz petroleum contaminated soil	Waste Profile #	4531154607

II. Purpose of Change

Description of Change Requested and Reason for Change: (Provide detailed explanation of why the change is requested following the appropriate checked box below).

- ☐ Volume Increase By:
  Is the analysis originally submitted with the Profile representative of the volume Increase? ☐ Yes ☐ No If No, complete Section III, below.
- ☐ Extend Expiration Date:
- ☐ Change or Add Landfill:
- ☐ Add Additional Laboratory Reports: **Complete Representative Sample Certification, Section III, below.**
- ☐ Add MSDS:
- ☐ Generator Name Change:
- ☒ Other:

  Change billing information from: Siboney Contracting Company 1450 Centrepark Blvd., Suite 100, West Palm Beach, FL, Don Johnson 619-990-4443 djohnson@siboneycc.com to:
  Ace Excavating
  1020 Greenfield Dr., E1, El Cajon, CA 92021Larry Gillum 619-441-4900
  larry@ace.sdcoxmail.com

III. Representative Sample Certification

☒ No Sample Taken

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	☐ YES or ☐ NO
Type of Sample: ☐ COMPOSITE SAMPLE ☐ GRAB SAMPLE	
Sample Date:	
Sample ID Numbers:	

IV. Certification

I hereby certify that the waste and the process generating the waste are unchanged and are accurately represented in the original profile.

Rita G. Brandin, Sr. Vice President, Development Director	Newland Sierra, LLC
Authorized Representative Name and Title (Printed)	Company Name
Rita G. Brandin	3/30/15
Authorized Representative Signature	Date

WASTE MANIFESTS

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAC002802371	1	18004249300	011174631 JJK

GENERATOR

5. Generator's Name and Mailing Address
RITA G BRANDIN NEWLAND SIERRA LLC
9820 TOWNE CENTRE DR STE 100 SAN DIEGO, CALIFORNIA 92121
Generator's Phone: 858 875 8219

Generator's Site Address (if different than mailing address)
SITE OF PICK UP
NORTH OF JONI RD SAN MARCOS, CALIFORNIA 92069

6. Transporter 1 Company Name
PACIFIC TRANS ENV SERVICES INC
U.S. EPA ID Number
CAD981412356

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U.S. ECOLOGY
HWY 95, 12 MILE SOUTH OF
BEATTY, NEVADA 89003
Facility's Phone: 800-239-3943
U.S. EPA ID Number
NVT330010000

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE, LIQUID (OILY WATER)	002	DM	0700	P	NR 331
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. RITA/OILY WATER 2 x 55
EMERGENCY RESPONSE GUIDE:
1:N/A
WORK ORDER: 61778

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ERIC MCWOOD AGENT FOR OWNER
Signature: ERIC MCWOOD
Month: 2 Day: 11 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: J. CUTBERTO MONTANO
Signature:
Month: 2 Day: 11 Year: 15

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H039			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Brianna Thompson
Signature:
Month: 2 Day: 20 Year: 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

March 02,2015

RITA G BRANDIN NEWLAND SIERRA LLC
NORTH OF NONI RD
SAN MARCOS, CA 92121

This is to certify that waste as defined on Waste Manifest number **011174631JJK/011174631JJK** was received by U.S. Ecology, Inc., on **02/20/2015**.The waste(s) were subsequently treated, if required by 40 CFR Part 268 and U.S. Ecology's permits and disposed of by **02/24/2015** in accordance with permits and laws regulating this facility.

Reference Number: 15021901403-011174631JJK-1-1
Material: 2 55 GALLON DRUM
Process: Solidification

Facility: U.S. ECOLOGY NEVADA, INC.
HWY 95 11 MILES S. OF BEATTY
BEATTY, NV 89003
EPA ID: NVT330010000

Waste Type: NON-RCRA WASTE

Customer: PACIFIC TRANS ENV. SVCS.

Printed Name: REBECCA HOGABOAM

Signature: Rebecca Hogaboam

Title: COMPLIANCE MANAGER

REPUBLIC SERVICES

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

2054983

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
N/A	NA	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
Rancho Santa Fe LLC APN 178-178-101-1600	9620 Towne Center Drive Suite 100 San Diego, CA 92121
f. Phone: 858 875 8219	g. Phone:
If owner of the generating facility differs from the generator, provide:	
h. Owner's Name: Rancho Santa Fe LLC	i. Owner's Phone No.: 858 875 8219

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
4531 15 4607	3/24/2016	Non Hazardous TPH Containing Soil	1	RO	15	CY

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Bryan Voss	Bryan Voss	4/16/15

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
Ace Excavating
1020 Greenfield Drive
El Cajon, CA 92021
b. Phone: 619 441 4900

c. Driver Name (Print)	d. Signature	e. Date
R Rodriguez	R Rodriguez	4/16/15

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Otay Landfill, Inc. Ph# 619.421.3773 1700 Maxwell Road Chula Vista, CA 91911 ALF Acct# 400164 Saboney b.	CAD982431793	12.02 TN 754735 4/16/2015

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
NOT APPLICABLE	
b. Phone:	d. Phone:

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

REPUBLIC SERVICES

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

2064889

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NA	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
Meritage Sierra LLC APN 178 178-101-1600 | N of Joni Rd San Marcos, CA 92069 858 875 8219 f. Phone:	9820 Towne Center Drive Suite 100 San Diego, CA 92121 g. Phone:
If owner of the generating facility differs from the generator, provide: Pulte Group h. Owner's Name:	858 875 8219 i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
4531 15 4607	3/24/2016	Non Hazardous TPH Containing Soil	1	RO	15	CY

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Bryan Voss		4/16/15

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
ACE Excavating
1020 Greenfield Drive
El Cajon, CA 92021 619 441 4900
b. Phone:

c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Otay Landfill, Inc Ph# 619 421 3773 1700 Maxwell Road Chula Vista, CA 91911 (LF Acct# 400184 Siboney) b.	CAD982431793	#1254524 5,138 TV

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate. 4/16/15

e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
NOT APPLICABLE b. Phone:	d. Phone:

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

LABORATORY DATA

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Supplemental Report 5

Additional requested analyses have been added to the original report.

WORK ORDER NUMBER: 15-02-0661

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: LEIGHTON AND ASSOCIATES, INC.

Client Project Name: Newland Sierra

Attention: Bryan Voss
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Approved for release on 03/18/2015 by:
Richard Villafania
Project Manager

ResultLink

Email your PM

eurofins | Calscience

Contents

Client Project Name: Newland Sierra
Work Order Number: 15-02-0661

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Work Order Narrative

Work Order: 15-02-0661 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 02/09/15. They were assigned to Work Order 15-02-0661.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.		Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-02-0661
San Diego, CA 92123-4425		Preparation:	N/A
		Method:	CA Fish and Game
Project: Newland Sierra			Page 1 of 2

Test Species:	Fathead Minnow (Pimephales Promelas)	Mean Length:	43 mm	Mean Weight:	0.46 g
Sample Collected:	02/09/15 07:15:00	Sample Received:	02/09/15 20:05:00		
Test Start:	03/13/15 18:00:00	Test End:	03/17/15 18:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.66 units	Conductivity:	900 umhos/cm
Dissolved Oxygen (D.O.):	7.2 mg/L	Alkanlinity:	186 mg/L
Hardness:	40 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-3	**15-02-0661-7**	**02/09/15**	**Solid**	**03/13/15**	**03/17/15 18:00:00**	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	0	%
Bioassay 250 mg/L (% Mortality)	0	%

Laboratory Notes

Sample analysis was performed after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.20
Upper 95% confidence limit:	25.70
Lower 95% confidence limit:	22.80

SRT: Standard Reference Toxicant.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.		Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-02-0661
San Diego, CA 92123-4425		Preparation:	N/A
		Method:	CA Fish and Game
Project: Newland Sierra			Page 2 of 2

Test Species:	Fathead Minnow (Pimephales Promelas)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	02/09/15 07:30:00	Sample Received:	02/09/15 20:05:00		
Test Start:	02/23/15 19:00:00	Test End:	02/27/15 19:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.76 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.18 mg/L	Alkanlinity:	192 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-4	**15-02-0661-8**	**02/09/15**	**Solid**	**02/23/15**	**02/27/15 19:00:00**	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	0	%
Bioassay 250 mg/L (% Mortality)	0	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	22.50
Upper 95% confidence limit:	23.90
Lower 95% confidence limit:	21.10

SRT: Standard Reference Toxicant.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
South Bottom	**15-02-0661-1-A**	**02/06/15 15:45**	**Solid**	**GC 45**	**02/10/15**	**02/11/15 22:38**	**150210B16**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	50	10.0	
C7	ND	50	10.0	
C8	ND	50	10.0	
C9-C10	ND	50	10.0	
C11-C12	110	50	10.0	
C13-C14	170	50	10.0	
C15-C16	190	50	10.0	
C17-C18	230	50	10.0	
C19-C20	270	50	10.0	
C21-C22	620	50	10.0	
C23-C24	950	50	10.0	
C25-C28	1400	50	10.0	
C29-C32	1700	50	10.0	
C33-C36	1200	50	10.0	
C37-C40	690	50	10.0	
C41-C44	280	50	10.0	
C6-C44 Total	7800	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

eurofins | Calscience

Analytical Report

LEIGHTON AND ASSOCIATES, INC.		Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-02-0661
San Diego, CA 92123-4425		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Newland Sierra			Page 2 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
East Sidewall	**15-02-0661-2-A**	**02/06/15 16:00**	**Solid**	**GC 45**	**02/10/15**	**02/13/15 02:30**	**150210B16**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	7.7	5.0	1.00	
C29-C32	9.6	5.0	1.00	
C33-C36	5.9	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	35	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	62	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.		Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-02-0661
San Diego, CA 92123-4425		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Newland Sierra			Page 3 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
North Bottom	**15-02-0661-3-A**	**02/06/15 16:15**	**Solid**	**GC 45**	**02/10/15**	**02/11/15 16:47**	**150210B16**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	5.9	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	17	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	70	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.		Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-02-0661
San Diego, CA 92123-4425		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Newland Sierra			Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
West Sidewall	**15-02-0661-4-A**	**02/06/15 16:30**	**Solid**	**GC 45**	**02/10/15**	**02/13/15 02:49**	**150210B16**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	5.9	5.0	1.00	
C23-C24	7.1	5.0	1.00	
C25-C28	12	5.0	1.00	
C29-C32	17	5.0	1.00	
C33-C36	20	5.0	1.00	
C37-C40	5.7	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	74	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	62	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-1	**15-02-0661-5-A**	**02/09/15 07:00**	**Solid**	**GC 45**	**02/10/15**	**02/12/15 18:37**	**150210B16**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	49	10.0	
C7	ND	49	10.0	
C8	ND	49	10.0	
C9-C10	ND	49	10.0	
C11-C12	140	49	10.0	
C13-C14	260	49	10.0	
C15-C16	290	49	10.0	
C17-C18	350	49	10.0	
C19-C20	430	49	10.0	
C21-C22	1100	49	10.0	
C23-C24	1500	49	10.0	
C25-C28	2600	49	10.0	
C29-C32	2900	49	10.0	
C33-C36	2100	49	10.0	
C37-C40	1300	49	10.0	
C41-C44	750	49	10.0	
C6-C44 Total	14000	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-2	**15-02-0661-6-A**	**02/09/15 07:10**	**Solid**	**GC 45**	**02/10/15**	**02/11/15 19:15**	**150210B16**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	50	10.0	
C7	ND	50	10.0	
C8	ND	50	10.0	
C9-C10	ND	50	10.0	
C11-C12	53	50	10.0	
C13-C14	130	50	10.0	
C15-C16	180	50	10.0	
C17-C18	210	50	10.0	
C19-C20	260	50	10.0	
C21-C22	530	50	10.0	
C23-C24	730	50	10.0	
C25-C28	1400	50	10.0	
C29-C32	1800	50	10.0	
C33-C36	1600	50	10.0	
C37-C40	1100	50	10.0	
C41-C44	410	50	10.0	
C6-C44 Total	8400	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-3	**15-02-0661-7-A**	**02/09/15 07:15**	**Solid**	**GC 45**	**02/10/15**	**02/12/15 18:54**	**150210B16**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	50	10.0	
C7	ND	50	10.0	
C8	ND	50	10.0	
C9-C10	ND	50	10.0	
C11-C12	160	50	10.0	
C13-C14	270	50	10.0	
C15-C16	340	50	10.0	
C17-C18	430	50	10.0	
C19-C20	520	50	10.0	
C21-C22	1100	50	10.0	
C23-C24	1500	50	10.0	
C25-C28	2900	50	10.0	
C29-C32	3200	50	10.0	
C33-C36	2100	50	10.0	
C37-C40	1400	50	10.0	
C41-C44	860	50	10.0	
C6-C44 Total	15000	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	112	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-4	**15-02-0661-8-A**	**02/09/15 07:30**	**Solid**	**GC 45**	**02/10/15**	**02/11/15 20:29**	**150210B16**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	49	10.0	
C7	ND	49	10.0	
C8	ND	49	10.0	
C9-C10	ND	49	10.0	
C11-C12	140	49	10.0	
C13-C14	230	49	10.0	
C15-C16	240	49	10.0	
C17-C18	290	49	10.0	
C19-C20	380	49	10.0	
C21-C22	800	49	10.0	
C23-C24	1100	49	10.0	
C25-C28	2000	49	10.0	
C29-C32	2400	49	10.0	
C33-C36	1800	49	10.0	
C37-C40	1100	49	10.0	
C41-C44	430	49	10.0	
C6-C44 Total	11000	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	84	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-490-1426**	**N/A**	**Solid**	**GC 45**	**02/10/15**	**02/11/15 14:23**	**150210B16**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	67	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-1	**15-02-0661-5-A**	**02/09/15 07:00**	**Solid**	**ICP 7300**	**02/12/15**	**02/16/15 18:06**	**150212L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	1.76	0.758	1.01	
Barium	47.4	0.505	1.01	
Beryllium	0.281	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	4.97	0.253	1.01	
Cobalt	4.65	0.253	1.01	
Copper	4.58	0.505	1.01	
Lead	17.7	0.505	1.01	
Molybdenum	ND	0.253	1.01	
Nickel	2.53	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	18.5	0.253	1.01	
Zinc	51.6	1.01	1.01	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Newland Sierra

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-2	**15-02-0661-6-A**	**02/09/15 07:10**	**Solid**	**ICP 7300**	**02/12/15**	**02/16/15 18:07**	**150212L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Arsenic	1.50	0.765	1.02	
Barium	47.7	0.510	1.02	
Beryllium	0.297	0.255	1.02	
Cadmium	ND	0.510	1.02	
Chromium	5.24	0.255	1.02	
Cobalt	4.95	0.255	1.02	
Copper	2.99	0.510	1.02	
Lead	21.5	0.510	1.02	
Molybdenum	ND	0.255	1.02	
Nickel	2.36	0.255	1.02	
Selenium	ND	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	20.7	0.255	1.02	
Zinc	37.5	1.02	1.02	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Newland Sierra

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-3	**15-02-0661-7-A**	**02/09/15 07:15**	**Solid**	**ICP 7300**	**02/12/15**	**02/16/15 18:09**	**150212L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	2.06	0.732	0.976	
Barium	52.2	0.488	0.976	
Beryllium	0.323	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	6.04	0.244	0.976	
Cobalt	5.53	0.244	0.976	
Copper	4.97	0.488	0.976	
Lead	6.32	0.488	0.976	
Molybdenum	ND	0.244	0.976	
Nickel	2.91	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	21.0	0.244	0.976	
Zinc	55.8	0.976	0.976	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-4	**15-02-0661-8-A**	**02/09/15 07:30**	**Solid**	**ICP 7300**	**02/12/15**	**02/16/15 18:10**	**150212L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	1.82	0.750	1.00	
Barium	45.5	0.500	1.00	
Beryllium	0.314	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	5.52	0.250	1.00	
Cobalt	5.24	0.250	1.00	
Copper	3.95	0.500	1.00	
Lead	11.0	0.500	1.00	
Molybdenum	0.392	0.250	1.00	
Nickel	2.78	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	20.9	0.250	1.00	
Zinc	46.6	1.00	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Newland Sierra

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-20394**	**N/A**	**Solid**	**ICP 7300**	**02/12/15**	**02/16/15 16:52**	**150212L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	ND	0.750	1.00	
Barium	ND	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	ND	0.250	1.00	
Cobalt	ND	0.250	1.00	
Copper	ND	0.500	1.00	
Lead	ND	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	ND	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	ND	0.250	1.00	
Zinc	ND	1.00	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-1	**15-02-0661-5-A**	**02/09/15 07:00**	**Solid**	**Mercury 05**	**02/16/15**	**02/16/15 17:18**	**150216L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-2	**15-02-0661-6-A**	**02/09/15 07:10**	**Solid**	**Mercury 05**	**02/16/15**	**02/16/15 17:20**	**150216L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-3	**15-02-0661-7-A**	**02/09/15 07:15**	**Solid**	**Mercury 05**	**02/16/15**	**02/16/15 17:27**	**150216L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-4	**15-02-0661-8-A**	**02/09/15 07:30**	**Solid**	**Mercury 05**	**02/16/15**	**02/16/15 17:29**	**150216L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-982**	**N/A**	**Solid**	**Mercury 05**	**02/16/15**	**02/16/15 17:00**	**150216L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
South Bottom	**15-02-0661-1-A**	**02/06/15 15:45**	**Solid**	**GC 58**	**02/18/15**	**02/19/15 11:12**	**150218L01**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	82	24-168	
2,4,5,6-Tetrachloro-m-Xylene	85	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-1	**15-02-0661-5-A**	**02/09/15 07:00**	**Solid**	**GC 58**	**02/13/15**	**02/13/15 19:00**	**150213L05**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	73	24-168	
2,4,5,6-Tetrachloro-m-Xylene	61	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-2	**15-02-0661-6-A**	**02/09/15 07:10**	**Solid**	**GC 58**	**02/13/15**	**02/13/15 19:18**	**150213L05**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	72	24-168	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-3	**15-02-0661-7-A**	**02/09/15 07:15**	**Solid**	**GC 58**	**02/13/15**	**02/13/15 19:36**	**150213L05**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	62	24-168	
2,4,5,6-Tetrachloro-m-Xylene	69	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-4	**15-02-0661-8-A**	**02/09/15 07:30**	**Solid**	**GC 58**	**02/13/15**	**02/13/15 19:54**	**150213L05**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	69	24-168	
2,4,5,6-Tetrachloro-m-Xylene	70	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-3061**	**N/A**	**Solid**	**GC 58**	**02/13/15**	**02/13/15 16:54**	**150213L05**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: Newland Sierra

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-3067**	**N/A**	**Solid**	**GC 58**	**02/18/15**	**02/18/15 12:35**	**150218L01**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-1	**15-02-0661-5-A**	**02/09/15 07:00**	**Solid**	**GC/MS SS**	**02/13/15**	**02/13/15 22:58**	**150213L02**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	0.59	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	64	27-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.	Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205	Work Order:	15-02-0661
San Diego, CA 92123-4425	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Newland Sierra		Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	59	25-120	
Nitrobenzene-d5	49	33-123	
p-Terphenyl-d14	96	27-159	
Phenol-d6	58	26-122	
2,4,6-Tribromophenol	84	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-2	**15-02-0661-6-A**	**02/09/15 07:10**	**Solid**	**GC/MS SS**	**02/13/15**	**02/13/15 23:17**	**150213L02**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	2.0	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	64	27-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.	Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205	Work Order:	15-02-0661
San Diego, CA 92123-4425	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Newland Sierra		Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	59	25-120	
Nitrobenzene-d5	49	33-123	
p-Terphenyl-d14	92	27-159	
Phenol-d6	59	26-122	
2,4,6-Tribromophenol	83	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-3	**15-02-0661-7-A**	**02/09/15 07:15**	**Solid**	**GC/MS SS**	**02/13/15**	**02/13/15 23:36**	**150213L02**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	0.59	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	59	27-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.	Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205	Work Order:	15-02-0661
San Diego, CA 92123-4425	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Newland Sierra		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	53	25-120	
Nitrobenzene-d5	44	33-123	
p-Terphenyl-d14	93	27-159	
Phenol-d6	53	26-122	
2,4,6-Tribromophenol	76	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-4	**15-02-0661-8-A**	**02/09/15 07:30**	**Solid**	**GC/MS SS**	**02/13/15**	**02/16/15 12:54**	**150213L02**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	2.5	5.00	
Acenaphthylene	ND	2.5	5.00	
Aniline	ND	2.5	5.00	
Anthracene	ND	2.5	5.00	
Azobenzene	ND	2.5	5.00	
Benzidine	ND	50	5.00	
Benzo (a) Anthracene	ND	2.5	5.00	
Benzo (a) Pyrene	ND	2.5	5.00	
Benzo (b) Fluoranthene	ND	2.5	5.00	
Benzo (g,h,i) Perylene	ND	2.5	5.00	
Benzo (k) Fluoranthene	ND	2.5	5.00	
Benzoic Acid	ND	13	5.00	
Benzyl Alcohol	ND	2.5	5.00	
Bis(2-Chloroethoxy) Methane	ND	2.5	5.00	
Bis(2-Chloroethyl) Ether	ND	13	5.00	
Bis(2-Chloroisopropyl) Ether	ND	2.5	5.00	
Bis(2-Ethylhexyl) Phthalate	2.7	2.5	5.00	
4-Bromophenyl-Phenyl Ether	ND	2.5	5.00	
Butyl Benzyl Phthalate	ND	2.5	5.00	
4-Chloro-3-Methylphenol	ND	2.5	5.00	
4-Chloroaniline	ND	2.5	5.00	
2-Chloronaphthalene	ND	2.5	5.00	
2-Chlorophenol	ND	2.5	5.00	
4-Chlorophenyl-Phenyl Ether	ND	2.5	5.00	
Chrysene	ND	2.5	5.00	
Di-n-Butyl Phthalate	ND	2.5	5.00	
Di-n-Octyl Phthalate	ND	2.5	5.00	
Dibenz (a,h) Anthracene	ND	2.5	5.00	
Dibenzofuran	ND	2.5	5.00	
1,2-Dichlorobenzene	ND	2.5	5.00	
1,3-Dichlorobenzene	ND	2.5	5.00	
1,4-Dichlorobenzene	ND	2.5	5.00	
3,3'-Dichlorobenzidine	ND	50	5.00	
2,4-Dichlorophenol	ND	2.5	5.00	
Diethyl Phthalate	ND	2.5	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	2.5	5.00	
2,4-Dimethylphenol	ND	2.5	5.00	
4,6-Dinitro-2-Methylphenol	ND	13	5.00	
2,4-Dinitrophenol	ND	13	5.00	
2,4-Dinitrotoluene	ND	2.5	5.00	
2,6-Dinitrotoluene	ND	2.5	5.00	
Fluoranthene	ND	2.5	5.00	
Fluorene	ND	2.5	5.00	
Hexachloro-1,3-Butadiene	ND	2.5	5.00	
Hexachlorobenzene	ND	2.5	5.00	
Hexachlorocyclopentadiene	ND	13	5.00	
Hexachloroethane	ND	2.5	5.00	
Indeno (1,2,3-c,d) Pyrene	ND	2.5	5.00	
Isophorone	ND	2.5	5.00	
2-Methylnaphthalene	ND	2.5	5.00	
1-Methylnaphthalene	ND	2.5	5.00	
2-Methylphenol	ND	2.5	5.00	
3/4-Methylphenol	ND	2.5	5.00	
N-Nitroso-di-n-propylamine	ND	2.5	5.00	
N-Nitrosodimethylamine	ND	2.5	5.00	
N-Nitrosodiphenylamine	ND	2.5	5.00	
Naphthalene	ND	2.5	5.00	
4-Nitroaniline	ND	2.5	5.00	
3-Nitroaniline	ND	2.5	5.00	
2-Nitroaniline	ND	2.5	5.00	
Nitrobenzene	ND	13	5.00	
4-Nitrophenol	ND	2.5	5.00	
2-Nitrophenol	ND	2.5	5.00	
Pentachlorophenol	ND	13	5.00	
Phenanthrene	ND	2.5	5.00	
Phenol	ND	2.5	5.00	
Pyrene	ND	2.5	5.00	
Pyridine	ND	2.5	5.00	
1,2,4-Trichlorobenzene	ND	2.5	5.00	
2,4,6-Trichlorophenol	ND	2.5	5.00	
2,4,5-Trichlorophenol	ND	2.5	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	90	27-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.	Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205	Work Order:	15-02-0661
San Diego, CA 92123-4425	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Newland Sierra		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	80	25-120	
Nitrobenzene-d5	68	33-123	
p-Terphenyl-d14	89	27-159	
Phenol-d6	80	26-122	
2,4,6-Tribromophenol	104	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-3202**	**N/A**	**Solid**	**GC/MS SS**	**02/13/15**	**02/13/15 21:41**	**150213L02**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	67	27-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.	Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205	Work Order:	15-02-0661
San Diego, CA 92123-4425	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Newland Sierra		Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	74	25-120	
Nitrobenzene-d5	60	33-123	
p-Terphenyl-d14	63	27-159	
Phenol-d6	75	26-122	
2,4,6-Tribromophenol	84	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
South Bottom	**15-02-0661-1-A**	**02/06/15 15:45**	**Solid**	**GC/MS EEE**	**02/18/15**	**02/18/15 20:47**	**150218L03**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.10	5.00	
2-Methylnaphthalene	ND	0.10	5.00	
1-Methylnaphthalene	ND	0.10	5.00	
Acenaphthylene	ND	0.10	5.00	
Acenaphthene	ND	0.10	5.00	
Fluorene	ND	0.10	5.00	
Phenanthrene	ND	0.10	5.00	
Anthracene	ND	0.10	5.00	
Fluoranthene	ND	0.10	5.00	
Pyrene	0.15	0.10	5.00	
Benzo (a) Anthracene	ND	0.10	5.00	
Chrysene	ND	0.10	5.00	
Benzo (k) Fluoranthene	ND	0.10	5.00	
Benzo (b) Fluoranthene	ND	0.10	5.00	
Benzo (a) Pyrene	ND	0.10	5.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.10	5.00	
Dibenz (a,h) Anthracene	ND	0.10	5.00	
Benzo (g,h,i) Perylene	ND	0.10	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	127	22-130	
Nitrobenzene-d5	122	20-145	
p-Terphenyl-d14	78	33-147	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-010-2325**	**N/A**	**Solid**	**GC/MS EEE**	**02/18/15**	**02/18/15 19:26**	**150218L03**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.020	1.00	
2-Methylnaphthalene	ND	0.020	1.00	
1-Methylnaphthalene	ND	0.020	1.00	
Acenaphthylene	ND	0.020	1.00	
Acenaphthene	ND	0.020	1.00	
Fluorene	ND	0.020	1.00	
Phenanthrene	ND	0.020	1.00	
Anthracene	ND	0.020	1.00	
Fluoranthene	ND	0.020	1.00	
Pyrene	ND	0.020	1.00	
Benzo (a) Anthracene	ND	0.020	1.00	
Chrysene	ND	0.020	1.00	
Benzo (k) Fluoranthene	ND	0.020	1.00	
Benzo (b) Fluoranthene	ND	0.020	1.00	
Benzo (a) Pyrene	ND	0.020	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.020	1.00	
Dibenz (a,h) Anthracene	ND	0.020	1.00	
Benzo (g,h,i) Perylene	ND	0.020	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	89	22-130	
Nitrobenzene-d5	66	20-145	
p-Terphenyl-d14	83	33-147	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-1	**15-02-0661-5-B**	**02/09/15 07:00**	**Solid**	**GC/MS Q**	**02/10/15**	**02/11/15 19:35**	**150211L002**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	4.9	1.00	
Bromobenzene	ND	4.9	1.00	
Bromochloromethane	ND	4.9	1.00	
Bromodichloromethane	ND	4.9	1.00	
Bromoform	ND	4.9	1.00	
Bromomethane	ND	24	1.00	
2-Butanone	ND	49	1.00	
n-Butylbenzene	ND	4.9	1.00	
sec-Butylbenzene	ND	4.9	1.00	
tert-Butylbenzene	ND	4.9	1.00	
Carbon Disulfide	ND	49	1.00	
Carbon Tetrachloride	ND	4.9	1.00	
Chlorobenzene	ND	4.9	1.00	
Chloroethane	ND	4.9	1.00	
Chloroform	ND	4.9	1.00	
Chloromethane	ND	24	1.00	
2-Chlorotoluene	ND	4.9	1.00	
4-Chlorotoluene	ND	4.9	1.00	
Dibromochloromethane	ND	4.9	1.00	
1,2-Dibromo-3-Chloropropane	ND	9.8	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
Dibromomethane	ND	4.9	1.00	
1,2-Dichlorobenzene	ND	4.9	1.00	
1,3-Dichlorobenzene	ND	4.9	1.00	
1,4-Dichlorobenzene	ND	4.9	1.00	
Dichlorodifluoromethane	ND	4.9	1.00	
1,1-Dichloroethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
1,1-Dichloroethene	ND	4.9	1.00	
c-1,2-Dichloroethene	ND	4.9	1.00	
t-1,2-Dichloroethene	ND	4.9	1.00	
1,2-Dichloropropane	ND	4.9	1.00	
1,3-Dichloropropane	ND	4.9	1.00	
2,2-Dichloropropane	ND	4.9	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	4.9	1.00	
c-1,3-Dichloropropene	ND	4.9	1.00	
t-1,3-Dichloropropene	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
2-Hexanone	ND	49	1.00	
Isopropylbenzene	ND	4.9	1.00	
p-Isopropyltoluene	ND	4.9	1.00	
Methylene Chloride	ND	49	1.00	
4-Methyl-2-Pentanone	ND	49	1.00	
Naphthalene	ND	49	1.00	
n-Propylbenzene	ND	4.9	1.00	
Styrene	ND	4.9	1.00	
1,1,1,2-Tetrachloroethane	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	4.9	1.00	
Tetrachloroethene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
1,2,3-Trichlorobenzene	ND	9.8	1.00	
1,2,4-Trichlorobenzene	ND	4.9	1.00	
1,1,1-Trichloroethane	ND	4.9	1.00	
1,1,2-Trichloroethane	ND	4.9	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	49	1.00	
Trichloroethene	ND	4.9	1.00	
1,2,3-Trichloropropane	ND	4.9	1.00	
1,2,4-Trimethylbenzene	ND	4.9	1.00	
Trichlorofluoromethane	ND	49	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
Vinyl Acetate	ND	49	1.00	
Vinyl Chloride	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	60-132	
Dibromofluoromethane	92	63-141	
1,2-Dichloroethane-d4	103	62-146	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-2	**15-02-0661-6-B**	**02/09/15 07:10**	**Solid**	**GC/MS Q**	**02/10/15**	**02/11/15 20:02**	**150211L002**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	130	1.00	
Benzene	ND	5.2	1.00	
Bromobenzene	ND	5.2	1.00	
Bromochloromethane	ND	5.2	1.00	
Bromodichloromethane	ND	5.2	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	26	1.00	
2-Butanone	ND	52	1.00	
n-Butylbenzene	ND	5.2	1.00	
sec-Butylbenzene	ND	5.2	1.00	
tert-Butylbenzene	ND	5.2	1.00	
Carbon Disulfide	ND	52	1.00	
Carbon Tetrachloride	ND	5.2	1.00	
Chlorobenzene	ND	5.2	1.00	
Chloroethane	ND	5.2	1.00	
Chloroform	ND	5.2	1.00	
Chloromethane	ND	26	1.00	
2-Chlorotoluene	ND	5.2	1.00	
4-Chlorotoluene	ND	5.2	1.00	
Dibromochloromethane	ND	5.2	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
Dibromomethane	ND	5.2	1.00	
1,2-Dichlorobenzene	ND	5.2	1.00	
1,3-Dichlorobenzene	ND	5.2	1.00	
1,4-Dichlorobenzene	ND	5.2	1.00	
Dichlorodifluoromethane	ND	5.2	1.00	
1,1-Dichloroethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
1,1-Dichloroethene	ND	5.2	1.00	
c-1,2-Dichloroethene	ND	5.2	1.00	
t-1,2-Dichloroethene	ND	5.2	1.00	
1,2-Dichloropropane	ND	5.2	1.00	
1,3-Dichloropropane	ND	5.2	1.00	
2,2-Dichloropropane	ND	5.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.2	1.00	
c-1,3-Dichloropropene	ND	5.2	1.00	
t-1,3-Dichloropropene	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
2-Hexanone	ND	52	1.00	
Isopropylbenzene	ND	5.2	1.00	
p-Isopropyltoluene	ND	5.2	1.00	
Methylene Chloride	ND	52	1.00	
4-Methyl-2-Pentanone	ND	52	1.00	
Naphthalene	ND	52	1.00	
n-Propylbenzene	ND	5.2	1.00	
Styrene	ND	5.2	1.00	
1,1,1,2-Tetrachloroethane	ND	5.2	1.00	
1,1,2,2-Tetrachloroethane	ND	5.2	1.00	
Tetrachloroethene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.2	1.00	
1,1,1-Trichloroethane	ND	5.2	1.00	
1,1,2-Trichloroethane	ND	5.2	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	52	1.00	
Trichloroethene	ND	5.2	1.00	
1,2,3-Trichloropropane	ND	5.2	1.00	
1,2,4-Trimethylbenzene	ND	5.2	1.00	
Trichlorofluoromethane	ND	52	1.00	
1,3,5-Trimethylbenzene	ND	5.2	1.00	
Vinyl Acetate	ND	52	1.00	
Vinyl Chloride	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-132	
Dibromofluoromethane	92	63-141	
1,2-Dichloroethane-d4	101	62-146	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-3	**15-02-0661-7-B**	**02/09/15 07:15**	**Solid**	**GC/MS Q**	**02/10/15**	**02/11/15 20:29**	**150211L002**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	5.2	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	60-132	
Dibromofluoromethane	93	63-141	
1,2-Dichloroethane-d4	103	62-146	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-4	**15-02-0661-8-B**	**02/09/15 07:30**	**Solid**	**GC/MS Q**	**02/10/15**	**02/11/15 20:57**	**150211L002**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	130	1.00	
Benzene	ND	5.1	1.00	
Bromobenzene	ND	5.1	1.00	
Bromochloromethane	ND	5.1	1.00	
Bromodichloromethane	ND	5.1	1.00	
Bromoform	ND	5.1	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	51	1.00	
n-Butylbenzene	ND	5.1	1.00	
sec-Butylbenzene	ND	5.1	1.00	
tert-Butylbenzene	ND	5.1	1.00	
Carbon Disulfide	ND	51	1.00	
Carbon Tetrachloride	ND	5.1	1.00	
Chlorobenzene	ND	5.1	1.00	
Chloroethane	ND	5.1	1.00	
Chloroform	ND	5.1	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.1	1.00	
4-Chlorotoluene	ND	5.1	1.00	
Dibromochloromethane	ND	5.1	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
Dibromomethane	ND	5.1	1.00	
1,2-Dichlorobenzene	ND	5.1	1.00	
1,3-Dichlorobenzene	ND	5.1	1.00	
1,4-Dichlorobenzene	ND	5.1	1.00	
Dichlorodifluoromethane	ND	5.1	1.00	
1,1-Dichloroethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
1,1-Dichloroethene	ND	5.1	1.00	
c-1,2-Dichloroethene	ND	5.1	1.00	
t-1,2-Dichloroethene	ND	5.1	1.00	
1,2-Dichloropropane	ND	5.1	1.00	
1,3-Dichloropropane	ND	5.1	1.00	
2,2-Dichloropropane	ND	5.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.1	1.00	
c-1,3-Dichloropropene	ND	5.1	1.00	
t-1,3-Dichloropropene	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
2-Hexanone	ND	51	1.00	
Isopropylbenzene	ND	5.1	1.00	
p-Isopropyltoluene	ND	5.1	1.00	
Methylene Chloride	ND	51	1.00	
4-Methyl-2-Pentanone	ND	51	1.00	
Naphthalene	ND	51	1.00	
n-Propylbenzene	ND	5.1	1.00	
Styrene	ND	5.1	1.00	
1,1,1,2-Tetrachloroethane	ND	5.1	1.00	
1,1,2,2-Tetrachloroethane	ND	5.1	1.00	
Tetrachloroethene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.1	1.00	
1,1,1-Trichloroethane	ND	5.1	1.00	
1,1,2-Trichloroethane	ND	5.1	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	51	1.00	
Trichloroethene	ND	5.1	1.00	
1,2,3-Trichloropropane	ND	5.1	1.00	
1,2,4-Trimethylbenzene	ND	5.1	1.00	
Trichlorofluoromethane	ND	51	1.00	
1,3,5-Trimethylbenzene	ND	5.1	1.00	
Vinyl Acetate	ND	51	1.00	
Vinyl Chloride	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-132	
Dibromofluoromethane	94	63-141	
1,2-Dichloroethane-d4	103	62-146	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-9377**	**N/A**	**Solid**	**GC/MS Q**	**02/11/15**	**02/11/15 11:32**	**150211L002**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	60-132	
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	107	62-146	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

LEIGHTON AND ASSOCIATES, INC.	Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205	Work Order:	15-02-0661
San Diego, CA 92123-4425	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)
Project: Newland Sierra		Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-02-0650-1	**Sample**	**Solid**	**GC 45**	**02/10/15**	**02/11/15 15:34**	**150210S16**
15-02-0650-1	**Matrix Spike**	**Solid**	**GC 45**	**02/10/15**	**02/11/15 14:59**	**150210S16**
15-02-0650-1	**Matrix Spike Duplicate**	**Solid**	**GC 45**	**02/10/15**	**02/11/15 15:16**	**150210S16**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	15.81	400.0	400.5	96	460.6	111	64-130	14	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3050B
Method: EPA 6010B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-02-0811-1	**Sample**	**Solid**	**ICP 7300**	**02/12/15**	**02/16/15 18:26**	**150212S04**
15-02-0811-1	**Matrix Spike**	**Solid**	**ICP 7300**	**02/12/15**	**02/16/15 18:31**	**150212S04**
15-02-0811-1	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**02/12/15**	**02/16/15 18:32**	**150212S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	4.420	18	4.000	16	50-115	10	0-20	3
Arsenic	5.917	25.00	32.42	106	33.34	110	75-125	3	0-20	
Barium	100.0	25.00	127.4	4X	119.5	4X	75-125	4X	0-20	Q
Beryllium	0.3629	25.00	26.59	105	26.34	104	75-125	1	0-20	
Cadmium	ND	25.00	25.46	102	25.93	104	75-125	2	0-20	
Chromium	18.65	25.00	47.36	115	48.49	119	75-125	2	0-20	
Cobalt	9.346	25.00	36.47	108	36.91	110	75-125	1	0-20	
Copper	15.76	25.00	43.73	112	44.07	113	75-125	1	0-20	
Lead	2.775	25.00	27.96	101	28.49	103	75-125	2	0-20	
Molybdenum	ND	25.00	23.40	94	23.90	96	75-125	2	0-20	
Nickel	15.11	25.00	42.20	108	42.91	111	75-125	2	0-20	
Selenium	ND	25.00	23.48	94	24.02	96	75-125	2	0-20	
Silver	ND	12.50	13.24	106	13.16	105	75-125	1	0-20	
Thallium	ND	25.00	8.526	34	10.58	42	75-125	22	0-20	3,4
Vanadium	31.41	25.00	59.02	110	58.37	108	75-125	1	0-20	
Zinc	43.36	25.00	72.42	116	73.37	120	75-125	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 7471A Total
Method: EPA 7471A
Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-02-0811-1	**Sample**	**Solid**	**Mercury 05**	**02/16/15**	**02/16/15 17:05**	**150216S04**
15-02-0811-1	**Matrix Spike**	**Solid**	**Mercury 05**	**02/16/15**	**02/16/15 17:07**	**150216S04**
15-02-0811-1	**Matrix Spike Duplicate**	**Solid**	**Mercury 05**	**02/16/15**	**02/16/15 17:09**	**150216S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.9590	115	0.9871	118	71-137	3	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-02-0849-1	**Sample**	**Solid**	**GC 58**	**02/13/15**	**02/13/15 17:30**	**150213S05**
15-02-0849-1	**Matrix Spike**	**Solid**	**GC 58**	**02/13/15**	**02/13/15 18:24**	**150213S05**
15-02-0849-1	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**02/13/15**	**02/13/15 18:42**	**150213S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	138.7	139	129.0	129	50-135	7	0-20	3
Aroclor-1260	80.09	100.0	152.6	72	154.4	74	50-135	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

LEIGHTON AND ASSOCIATES, INC.	Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205	Work Order:	15-02-0661
San Diego, CA 92123-4425	Preparation:	EPA 3545
	Method:	EPA 8082
Project: Newland Sierra		Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-02-0662-28	**Sample**	**Solid**	**GC 58**	**02/18/15**	**02/18/15 12:53**	**150218S01**
15-02-0662-28	**Matrix Spike**	**Solid**	**GC 58**	**02/18/15**	**02/18/15 13:11**	**150218S01**
15-02-0662-28	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**02/18/15**	**02/18/15 13:29**	**150218S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	83.88	84	89.78	90	50-135	7	0-20	
Aroclor-1260	ND	100.0	92.51	93	93.42	93	50-135	1	0-25	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

LEIGHTON AND ASSOCIATES, INC.	Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205	Work Order:	15-02-0661
San Diego, CA 92123-4425	Preparation:	EPA 3545
	Method:	EPA 8270C
Project: Newland Sierra		Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SP-2	**Sample**	**Solid**	**GC/MS SS**	**02/13/15**	**02/13/15 23:17**	**150213S02**
SP-2	**Matrix Spike**	**Solid**	**GC/MS SS**	**02/13/15**	**02/13/15 22:19**	**150213S02**
SP-2	**Matrix Spike Duplicate**	**Solid**	**GC/MS SS**	**02/13/15**	**02/13/15 22:39**	**150213S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acenaphthene	ND	10.00	6.643	66	7.326	73	34-148	10	0-20	
Acenaphthylene	ND	10.00	6.660	67	7.350	73	53-120	10	0-20	
Butyl Benzyl Phthalate	ND	10.00	6.476	65	7.523	75	15-189	15	0-20	
4-Chloro-3-Methylphenol	ND	10.00	5.877	59	6.163	62	32-120	5	0-20	
2-Chlorophenol	ND	10.00	5.954	60	6.465	65	53-120	8	0-20	
1,4-Dichlorobenzene	ND	10.00	5.893	59	6.565	66	43-120	11	0-26	
Dimethyl Phthalate	ND	10.00	6.347	63	7.119	71	44-122	11	0-20	
2,4-Dinitrotoluene	ND	10.00	7.062	71	7.862	79	28-120	11	0-20	
Fluorene	ND	10.00	6.775	68	7.402	74	12-186	9	0-20	
N-Nitroso-di-n-propylamine	ND	10.00	5.156	52	5.227	52	38-140	1	0-20	
Naphthalene	ND	10.00	5.894	59	6.440	64	20-140	9	0-20	
4-Nitrophenol	ND	10.00	5.793	58	5.754	58	14-128	1	0-59	
Pentachlorophenol	ND	10.00	6.561	66	7.287	73	10-124	10	0-20	
Phenol	ND	10.00	5.433	54	5.720	57	22-124	5	0-20	
Pyrene	ND	10.00	7.778	78	9.985	100	31-169	25	0-20	4
1,2,4-Trichlorobenzene	ND	10.00	6.391	64	7.220	72	56-120	12	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
South Bottom	**Sample**	**Solid**	**GC/MS EEE**	**02/18/15**	**02/18/15 20:47**	**150218S03**
South Bottom	**Matrix Spike**	**Solid**	**GC/MS EEE**	**02/18/15**	**02/18/15 20:06**	**150218S03**
South Bottom	**Matrix Spike Duplicate**	**Solid**	**GC/MS EEE**	**02/18/15**	**02/18/15 20:26**	**150218S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	ND	0.2000	0.2849	142	0.2527	126	20-150	12	0-33	
2-Methylnaphthalene	ND	0.2000	0.2432	122	0.2117	106	29-137	14	0-31	
1-Methylnaphthalene	ND	0.2000	0.2833	142	0.2390	120	34-136	17	0-29	3
Acenaphthylene	ND	0.2000	0.1936	97	0.1810	90	29-131	7	0-32	
Acenaphthene	ND	0.2000	0.2004	100	0.2033	102	29-137	1	0-28	
Fluorene	ND	0.2000	0.1926	96	0.1771	89	36-132	8	0-27	
Phenanthrene	ND	0.2000	0.2060	103	0.1858	93	20-144	10	0-27	
Anthracene	ND	0.2000	0.1487	74	0.1139	57	26-134	27	0-27	
Fluoranthene	ND	0.2000	0.1693	85	0.1699	85	20-151	0	0-26	
Pyrene	0.1473	0.2000	0.3343	94	0.3119	82	20-150	7	0-32	
Benzo (a) Anthracene	ND	0.2000	0.1828	91	0.1759	88	24-150	4	0-24	
Chrysene	ND	0.2000	0.1884	94	0.1895	95	25-145	1	0-28	
Benzo (k) Fluoranthene	ND	0.2000	0.1672	84	0.1442	72	28-148	15	0-26	
Benzo (b) Fluoranthene	ND	0.2000	0.1920	96	0.1619	81	21-153	17	0-26	
Benzo (a) Pyrene	ND	0.2000	0.2057	103	0.1545	77	29-149	28	0-22	4
Indeno (1,2,3-c,d) Pyrene	ND	0.2000	0.1752	88	0.1657	83	20-154	6	0-25	
Dibenz (a,h) Anthracene	ND	0.2000	0.1829	91	0.1706	85	20-132	7	0-26	
Benzo (g,h,i) Perylene	ND	0.2000	0.2011	101	0.1865	93	20-148	8	0-27	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-02-0714-8	**Sample**	**Solid**	**GC/MS Q**	**02/10/15**	**02/11/15 12:25**	**150211S001**
15-02-0714-8	**Matrix Spike**	**Solid**	**GC/MS Q**	**02/10/15**	**02/11/15 12:52**	**150211S001**
15-02-0714-8	**Matrix Spike Duplicate**	**Solid**	**GC/MS Q**	**02/10/15**	**02/11/15 13:18**	**150211S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	40.47	81	41.24	82	61-127	2	0-20	
Carbon Tetrachloride	ND	50.00	38.66	77	40.43	81	51-135	4	0-29	
Chlorobenzene	ND	50.00	34.49	69	35.30	71	57-123	2	0-20	
1,2-Dibromoethane	ND	50.00	42.70	85	43.91	88	64-124	3	0-20	
1,2-Dichlorobenzene	ND	50.00	24.71	49	24.37	49	35-131	1	0-25	
1,2-Dichloroethane	ND	50.00	45.78	92	46.22	92	80-120	1	0-20	
1,1-Dichloroethene	ND	50.00	43.57	87	45.36	91	47-143	4	0-25	
Ethylbenzene	ND	50.00	31.18	62	30.39	61	57-129	3	0-22	
Toluene	ND	50.00	35.88	72	36.38	73	63-123	1	0-20	
Trichloroethene	ND	50.00	37.24	74	37.30	75	44-158	0	0-20	
Vinyl Chloride	ND	50.00	41.55	83	41.60	83	49-139	0	0-47	
p/m-Xylene	ND	100.0	62.33	62	56.46	56	70-130	10	0-30	3
o-Xylene	ND	50.00	31.86	64	30.78	62	70-130	3	0-30	3
Methyl-t-Butyl Ether (MTBE)	ND	50.00	46.38	93	49.10	98	57-123	6	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

LEIGHTON AND ASSOCIATES, INC.	Date Received: 02/09/15
3934 Murphy Canyon Road, Suite B205	Work Order: 15-02-0661
San Diego, CA 92123-4425	Preparation: EPA 3550B
	Method: EPA 8015B (M)
Project: Newland Sierra	Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-490-1426	**LCS**	**Solid**	**GC 45**	**02/10/15**	**02/11/15 14:40**	**150210B16**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	439.1	110	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

LEIGHTON AND ASSOCIATES, INC.		Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-02-0661
San Diego, CA 92123-4425		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Newland Sierra			Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-20394	**LCS**	**Solid**	**ICP 7300**	**02/12/15**	**02/16/15 16:53**	**150212L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	25.35	101	80-120	73-127	
Arsenic	25.00	25.58	102	80-120	73-127	
Barium	25.00	24.14	97	80-120	73-127	
Beryllium	25.00	24.71	99	80-120	73-127	
Cadmium	25.00	26.71	107	80-120	73-127	
Chromium	25.00	26.21	105	80-120	73-127	
Cobalt	25.00	26.88	108	80-120	73-127	
Copper	25.00	26.24	105	80-120	73-127	
Lead	25.00	26.32	105	80-120	73-127	
Molybdenum	25.00	25.78	103	80-120	73-127	
Nickel	25.00	26.79	107	80-120	73-127	
Selenium	25.00	25.36	101	80-120	73-127	
Silver	12.50	11.58	93	80-120	73-127	
Thallium	25.00	27.11	108	80-120	73-127	
Vanadium	25.00	25.57	102	80-120	73-127	
Zinc	25.00	26.67	107	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

LEIGHTON AND ASSOCIATES, INC.		Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-02-0661
San Diego, CA 92123-4425		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Newland Sierra			Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-982	**LCS**	**Solid**	**Mercury 05**	**02/16/15**	**02/16/15 17:02**	**150216L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.9616	115	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

LEIGHTON AND ASSOCIATES, INC.		Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-02-0661
San Diego, CA 92123-4425		Preparation:	EPA 3545
		Method:	EPA 8082
Project: Newland Sierra			Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-3061	**LCS**	**Solid**	**GC 58**	**02/13/15**	**02/13/15 16:36**	**150213L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	91.72	92	50-135	
Aroclor-1260	100.0	91.71	92	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

LEIGHTON AND ASSOCIATES, INC.		Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-02-0661
San Diego, CA 92123-4425		Preparation:	EPA 3545
		Method:	EPA 8082
Project: Newland Sierra			Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-3067	**LCS**	**Solid**	**GC 58**	**02/18/15**	**02/18/15 12:17**	**150218L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	83.35	83	50-135	
Aroclor-1260	100.0	85.28	85	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

LEIGHTON AND ASSOCIATES, INC.		Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-02-0661
San Diego, CA 92123-4425		Preparation:	EPA 3545
		Method:	EPA 8270C
Project: Newland Sierra			Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-549-3202	**LCS**	**Solid**	**GC/MS SS**	**02/13/15**	**02/13/15 22:00**	**150213L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acenaphthene	10.00	7.901	79	51-123	39-135	
Acenaphthylene	10.00	7.809	78	52-120	41-131	
Butyl Benzyl Phthalate	10.00	8.069	81	43-139	27-155	
4-Chloro-3-Methylphenol	10.00	7.312	73	55-121	44-132	
2-Chlorophenol	10.00	7.463	75	58-124	47-135	
1,4-Dichlorobenzene	10.00	6.887	69	42-132	27-147	
Dimethyl Phthalate	10.00	7.864	79	51-123	39-135	
2,4-Dinitrotoluene	10.00	9.303	93	51-129	38-142	
Fluorene	10.00	8.046	80	54-126	42-138	
N-Nitroso-di-n-propylamine	10.00	6.645	66	40-136	24-152	
Naphthalene	10.00	6.780	68	32-146	13-165	
4-Nitrophenol	10.00	7.999	80	24-126	7-143	
Pentachlorophenol	10.00	7.030	70	23-131	5-149	
Phenol	10.00	6.927	69	40-130	25-145	
Pyrene	10.00	7.227	72	47-143	31-159	
1,2,4-Trichlorobenzene	10.00	7.192	72	45-129	31-143	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 02/09/15
Work Order: 15-02-0661
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-06-010-2325	**LCS**	**Solid**	**GC/MS EEE**	**02/18/15**	**02/18/15 18:26**	**150218L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Naphthalene	0.2000	0.1977	99	51-129	38-142	
2-Methylnaphthalene	0.2000	0.2172	109	50-127	37-140	
1-Methylnaphthalene	0.2000	0.1881	94	54-132	41-145	
Acenaphthylene	0.2000	0.2253	113	50-123	38-135	
Acenaphthene	0.2000	0.2361	118	53-125	41-137	
Fluorene	0.2000	0.2336	117	55-127	43-139	
Phenanthrene	0.2000	0.2229	111	50-122	38-134	
Anthracene	0.2000	0.2068	103	50-132	36-146	
Fluoranthene	0.2000	0.2113	106	55-127	43-139	
Pyrene	0.2000	0.2112	106	50-134	36-148	
Benzo (a) Anthracene	0.2000	0.2029	101	50-133	36-147	
Chrysene	0.2000	0.2185	109	51-129	38-142	
Benzo (k) Fluoranthene	0.2000	0.2129	106	49-150	32-167	
Benzo (b) Fluoranthene	0.2000	0.2003	100	50-142	35-157	
Benzo (a) Pyrene	0.2000	0.2083	104	50-134	36-148	
Indeno (1,2,3-c,d) Pyrene	0.2000	0.2083	104	50-148	34-164	
Dibenz (a,h) Anthracene	0.2000	0.2095	105	50-133	36-147	
Benzo (g,h,i) Perylene	0.2000	0.2135	107	50-130	37-143	

Total number of LCS compounds: 18
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

LEIGHTON AND ASSOCIATES, INC.		Date Received:	02/09/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-02-0661
San Diego, CA 92123-4425		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Newland Sierra			Page 8 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-9377	**LCS**	**Solid**	**GC/MS Q**	**02/11/15**	**02/11/15 10:35**	**150211L002**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	44.81	90	78-120	71-127	
Carbon Tetrachloride	50.00	51.39	103	49-139	34-154	
Chlorobenzene	50.00	47.15	94	79-120	72-127	
1,2-Dibromoethane	50.00	47.18	94	80-120	73-127	
1,2-Dichlorobenzene	50.00	45.26	91	75-120	68-128	
1,2-Dichloroethane	50.00	46.89	94	80-120	73-127	
1,1-Dichloroethene	50.00	46.47	93	74-122	66-130	
Ethylbenzene	50.00	45.64	91	76-120	69-127	
Toluene	50.00	45.49	91	77-120	70-127	
Trichloroethene	50.00	44.79	90	80-120	73-127	
Vinyl Chloride	50.00	41.15	82	68-122	59-131	
p/m-Xylene	100.0	96.59	97	75-125	67-133	
o-Xylene	50.00	48.40	97	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	44.58	89	77-120	70-127	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-02-0661 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
CA Fish and Game	N/A	691	TANK	1
EPA 6010B	EPA 3050B	935	ICP 7300	1
EPA 7471A	EPA 7471A Total	915	Mercury 05	1
EPA 8015B (M)	EPA 3550B	421	GC 45	1
EPA 8015B (M)	EPA 3550B	682	GC 45	1
EPA 8082	EPA 3545	944	GC 58	1
EPA 8260B	EPA 5030C	905	GC/MS Q	2
EPA 8270C	EPA 3545	923	GC/MS SS	1
EPA 8270C SIM PAHs	EPA 3545	966	GC/MS EEE	1

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Glossary of Terms and Qualifiers

Work Order: 15-02-0661 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: **15-02-0661**

DATE: 2/6/15

PAGE: 1 OF 1

LABORATORY CLIENT: Leighton Associates

ADDRESS: 3934 Murphy Canyon RD.

CITY: San Diego STATE: CA ZIP: 92123

TEL: (858) 300-8497 E-MAIL: bvoss@leightongroup.com

CLIENT PROJECT NAME / NO.: Newland Sierra

P.O. NO.: 10618.005

PROJECT CONTACT: Bryan Voss

LAB CONTACT OR QUOTE NO.:

GLOBAL ID:

LOG CODE:

SAMPLER(S): (PRINT) Bryan Voss

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

P.M. Richard Villafania

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☒ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6
1	South Bottom	2/6/15	3:45pm	Soil	1						X											
2	East Sidewall	2/6/15	4:00pm		1						X											
3	North Bottom	2/6/15	4:15pm		1						X											
4	West Sidewall	2/6/15	4:30pm		1						X											
5	SP-1	2/9/15	7:00 AM		2						X			X			X		X		X	
6	SP-2	2/9/15	7:10 AM		2						X			X			X		X		X	
7	SP-3	2/9/15	7:15 AM		2						X			X			X		X		X	
8	SP-4	2/9/15	7:30 AM		2						X			X			X		X		X	

Relinquished by: (Signature)	Received by: (Signature/Affiliation) ECI	Date: 02/09/15	Time: 16:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) ECI	Date: 2/9/15	Time: 20:05
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2014-07-01 Revision

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Richard Villafania

From: Bryan Voss [bvoss@leightongroup.com]
Sent: Wednesday, February 18, 2015 7:42 AM
To: Richard Villafania
Cc: Kevin Bryan; Kris Lutton
Subject: FW: Newland Sierra / 10618.005 / ECI 15-02-0661 Report
Attachments: 15-02-0661.pdf; 15020661.xls

Richard,

Please run PCBs (8082) and SIM PAHs (8270S SIM) on sample “South Bottom” on a 72 hr. TAT please.

If you have any question please let me know.

Bryan Voss

From: Richard Villafania [mailto:RichardVillafania@eurofinsUS.com]
Sent: Tuesday, February 17, 2015 4:18 PM
To: Bryan Voss
Subject: Newland Sierra / 10618.005 / ECI 15-02-0661 Report

Regards.

Richard Villafania
Project Manager

Eurofins Calscience, Inc.
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494
Website: www.calscience.com

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Richard Villafania

From: Bryan Voss [bvoss@leightongroup.com]
Sent: Monday, February 23, 2015 12:35 PM
To: Richard Villafania
Cc: Kevin Bryan; Kris Lutton
Subject: RE: Newland Sierra / 10618.005 / ECI 15-02-0661 Supplement Report

Richard,

In review the current analytical test results, we need to order the 96-hour Acute Bioassay for sample SP-4.

If you have any question please let me know.

Bryan Voss

From: Richard Villafania [mailto:RichardVillafania@eurofinsUS.com]
Sent: Friday, February 20, 2015 1:30 PM
To: Bryan Voss
Cc: Kevin Bryan; Kris Lutton
Subject: Newland Sierra / 10618.005 / ECI 15-02-0661 Supplement Report

Bryan,

Supplement report attached regarding the additional analyses.

Regards.

Richard Villafania
Project Manager

Eurofins Calscience, Inc.
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494
Website: www.calscience.com

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Richard Villafania

From: Bryan Voss [bvoss@leightongroup.com]
Sent: Friday, March 13, 2015 9:17 AM
To: Richard Villafania
Subject: RE: Newland Sierra / ECI 15-02-0661 revised report

Please run 96hr Bioassay on SP-3 the highest concentration of the stockpile material.

Bryan Voss

From: Richard Villafania [mailto:RichardVillafania@eurofinsUS.com]
Sent: Friday, March 13, 2015 9:14 AM
To: Bryan Voss
Subject: RE: Newland Sierra / ECI 15-02-0661 revised report

Bryan,

Revised report attached, please confirm which sample you require the 96hr Bioassay.

Regards.

Richard Villafania
Project Manager

Eurofins Calscience, Inc.
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494
Website: www.calscience.com

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WORK ORDER #: 15-02-0667

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: LEIGHTON

DATE: 02/09/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 1.6 °C + 0.2 °C (CF) = 1.8 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** 671

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Checked by:** 671

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** 977

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 977

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 689

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 689

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APPENDIX C

PHOTOGRAPHS

Leighton

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **May 21, 2015**	
Client Name: **Newland Sierra, LLC**	**Site Location:** **APN 178-101-16, San Marcos, CA**	**Project No.** **10618.006**

Photo No. 1 **View Direction of Photo:** Northwest **Description:** View of Shooting Area SA4.	

Photo No. 2 **View Direction of Photo:** Northeast **Description:** View of shooting Area SA4, note spent shotgun shells and target debris.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **May 21, 2015**	
Client Name: **Newland Sierra, LLC**	**Site Location:** **APN 178-101-16, San Marcos, CA**	**Project No.** **10618.006**

Photo No. 3 **View Direction of Photo:** North **Description:** View of the Shooting Area SA1. Note: Spent shotgun shells.	

Photo No. 4 **View Direction of Photo:** North **Description:** View of the Shooting Area SA3. Note: Showing ammunition boxes and spent rounds.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **May 21, 2015**	
Client Name: **Newland Sierra, LLC**	**Site Location:** **APN 178-101-16, San Marcos, CA**	**Project No.** **10618.006**

Photo No. 5 **View Direction of Photo:** East **Description:** View of target area in shooting area SA2. Note location of hand auger, this is the sample location for Shooting area SA2.	

Photo No. 6 **View Direction of Photo:** North **Description:** Typical shooting debris noted in shooting area SA3.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **May 21, 2015**	
Client Name: **Newland Sierra, LLC**	**Site Location:** **APN 178-101-16, San Marcos, CA**	**Project No.** **10618.006**

Photo No. 7 **View Direction of Photo:** North **Description:** Photo showing assumed agricultural sample location A3. Note: Title 22 Metal were also screened in this area as a result of target debris.	

Photo No. 8 **View Direction of Photo:** West **Description:** Typical view of assumed agricultural area that was screened for pesticides.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **May 21, 2015**	
Client Name: **Newland Sierra, LLC**	**Site Location:** **APN 178-101-16, San Marcos, CA**	**Project No.** **10618.006**

Photo No. 9 **View Direction of Photo:** West **Description:** Photo of SA4 agricultural screening area sample location. Note: typical native vegetation.	

Photo No. 10 **View Direction of Photo:** South **Description:** Showing sample area A11. Note native grasses and shrubs.	

APPENDIX D

MAY AND JUNE 2015 FOCUSED SOIL AND SOIL VAPOR SURVEY – LABORATORY TEST RESULTS AND CHAIN-OF-CUSTODY DOCUMENTS

Leighton

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WORK ORDER NUMBER: 15-05-1860

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: LEIGHTON AND ASSOCIATES, INC.

Client Project Name: Newland Sierra

Attention: Bryan Voss
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Approved for release on 06/01/2015 by:
Richard Villafania
Project Manager

ResultLink

Email your PM

nelac

eurofins | Calscience

Contents

Client Project Name: Newland Sierra
Work Order Number: 15-05-1860

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Work Order Narrative

Work Order: 15-05-1860 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 05/22/15. They were assigned to Work Order 15-05-1860.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA4-1@6"	**15-05-1860-1-A**	**05/21/15 09:30**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 19:51**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	4.63	0.739	0.985	
Arsenic	3.28	0.739	0.985	
Barium	30.1	0.493	0.985	
Beryllium	0.365	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	0.347	0.246	0.985	
Cobalt	1.05	0.246	0.985	
Copper	10.6	0.493	0.985	
Lead	983	0.493	0.985	
Molybdenum	ND	0.246	0.985	
Nickel	0.274	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	1.83	0.246	0.985	
Zinc	19.5	0.985	0.985	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA4-1@18"	**15-05-1860-2-A**	**05/21/15 09:35**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 19:55**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Arsenic	1.48	0.725	0.966	
Barium	19.1	0.483	0.966	
Beryllium	0.325	0.242	0.966	
Cadmium	ND	0.483	0.966	
Chromium	0.242	0.242	0.966	
Cobalt	0.963	0.242	0.966	
Copper	ND	0.483	0.966	
Lead	39.2	0.483	0.966	
Molybdenum	ND	0.242	0.966	
Nickel	0.269	0.242	0.966	
Selenium	ND	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	ND	0.725	0.966	
Vanadium	1.89	0.242	0.966	
Zinc	10.7	0.966	0.966	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Newland Sierra

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA4-2@6"	**15-05-1860-3-A**	**05/21/15 09:35**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 19:56**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	0.866	0.735	0.980	
Arsenic	1.43	0.735	0.980	
Barium	51.1	0.490	0.980	
Beryllium	0.340	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	1.27	0.245	0.980	
Cobalt	2.29	0.245	0.980	
Copper	ND	0.490	0.980	
Lead	34.0	0.490	0.980	
Molybdenum	ND	0.245	0.980	
Nickel	0.877	0.245	0.980	
Selenium	0.841	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	5.84	0.245	0.980	
Zinc	17.6	0.980	0.980	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA4-2@18"	**15-05-1860-4-A**	**05/21/15 09:45**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 19:57**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	0.956	0.732	0.976	
Arsenic	1.18	0.732	0.976	
Barium	39.5	0.488	0.976	
Beryllium	ND	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	0.674	0.244	0.976	
Cobalt	1.78	0.244	0.976	
Copper	ND	0.488	0.976	
Lead	71.4	0.488	0.976	
Molybdenum	ND	0.244	0.976	
Nickel	1.08	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	3.83	0.244	0.976	
Zinc	15.4	0.976	0.976	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA1-1@6"	**15-05-1860-5-A**	**05/21/15 10:30**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 19:59**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	2.10	0.743	0.990	
Barium	24.4	0.495	0.990	
Beryllium	ND	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	1.48	0.248	0.990	
Cobalt	1.48	0.248	0.990	
Copper	8.00	0.495	0.990	
Lead	9.87	0.495	0.990	
Molybdenum	0.698	0.248	0.990	
Nickel	0.759	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	6.64	0.248	0.990	
Zinc	13.1	0.990	0.990	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA1-1@18"	**15-05-1860-6-A**	**05/21/15 10:35**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:00**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	1.11	0.735	0.980	
Arsenic	3.00	0.735	0.980	
Barium	40.0	0.490	0.980	
Beryllium	0.352	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	4.30	0.245	0.980	
Cobalt	2.50	0.245	0.980	
Copper	7.80	0.490	0.980	
Lead	29.4	0.490	0.980	
Molybdenum	0.699	0.245	0.980	
Nickel	2.33	0.245	0.980	
Selenium	0.903	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	11.8	0.245	0.980	
Zinc	14.9	0.980	0.980	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA3-1@6"	**15-05-1860-7-A**	**05/21/15 11:11**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:01**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	1.23	0.746	0.995	
Arsenic	3.35	0.746	0.995	
Barium	116	0.498	0.995	
Beryllium	0.406	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	6.73	0.249	0.995	
Cobalt	5.15	0.249	0.995	
Copper	1.48	0.498	0.995	
Lead	13.8	0.498	0.995	
Molybdenum	0.286	0.249	0.995	
Nickel	3.99	0.249	0.995	
Selenium	1.76	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	23.0	0.249	0.995	
Zinc	22.1	0.995	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA3-1@18"	**15-05-1860-8-A**	**05/21/15 11:14**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:02**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	2.54	0.732	0.976	
Barium	72.8	0.488	0.976	
Beryllium	0.390	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	5.83	0.244	0.976	
Cobalt	4.88	0.244	0.976	
Copper	1.18	0.488	0.976	
Lead	7.88	0.488	0.976	
Molybdenum	0.411	0.244	0.976	
Nickel	3.52	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	21.6	0.244	0.976	
Zinc	20.5	0.976	0.976	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Newland Sierra

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA3-2@6"	**15-05-1860-10-A**	**05/21/15 11:10**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:08**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	1.95	0.750	1.00	
Barium	143	0.500	1.00	
Beryllium	0.361	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	5.02	0.250	1.00	
Cobalt	4.64	0.250	1.00	
Copper	1.93	0.500	1.00	
Lead	5.31	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	3.37	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	16.8	0.250	1.00	
Zinc	21.7	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA3-2@18"	**15-05-1860-11-A**	**05/21/15 11:15**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:09**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	0.901	0.739	0.985	
Arsenic	3.68	0.739	0.985	
Barium	124	0.493	0.985	
Beryllium	0.530	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	7.97	0.246	0.985	
Cobalt	6.24	0.246	0.985	
Copper	2.85	0.493	0.985	
Lead	6.93	0.493	0.985	
Molybdenum	0.406	0.246	0.985	
Nickel	5.17	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	26.9	0.246	0.985	
Zinc	25.5	0.985	0.985	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Newland Sierra

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA3-3@6"	**15-05-1860-13-A**	**05/21/15 11:23**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:10**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	2.13	0.750	1.00	
Barium	59.1	0.500	1.00	
Beryllium	0.390	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	5.85	0.250	1.00	
Cobalt	5.01	0.250	1.00	
Copper	0.621	0.500	1.00	
Lead	24.5	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	3.27	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	24.6	0.250	1.00	
Zinc	22.8	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA3-3@18"	**15-05-1860-14-A**	**05/21/15 11:27**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:11**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	0.961	0.746	0.995	
Arsenic	1.81	0.746	0.995	
Barium	37.0	0.498	0.995	
Beryllium	0.289	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	2.37	0.249	0.995	
Cobalt	3.95	0.249	0.995	
Copper	ND	0.498	0.995	
Lead	7.88	0.498	0.995	
Molybdenum	ND	0.249	0.995	
Nickel	1.27	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	18.8	0.249	0.995	
Zinc	21.4	0.995	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Newland Sierra

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA2-1@6"	**15-05-1860-15-A**	**05/21/15 12:04**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:12**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	7.63	0.773	1.03	
Arsenic	3.22	0.773	1.03	
Barium	53.1	0.515	1.03	
Beryllium	0.262	0.258	1.03	
Cadmium	ND	0.515	1.03	
Chromium	2.65	0.258	1.03	
Cobalt	3.54	0.258	1.03	
Copper	21.4	0.515	1.03	
Lead	1740	0.515	1.03	
Molybdenum	0.335	0.258	1.03	
Nickel	1.69	0.258	1.03	
Selenium	0.898	0.773	1.03	
Silver	ND	0.258	1.03	
Thallium	ND	0.773	1.03	
Vanadium	18.7	0.258	1.03	
Zinc	82.6	1.03	1.03	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA2-1@18"	**15-05-1860-16-A**	**05/21/15 12:08**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:13**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	1.14	0.746	0.995	
Arsenic	1.83	0.746	0.995	
Barium	39.9	0.498	0.995	
Beryllium	ND	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	1.06	0.249	0.995	
Cobalt	3.68	0.249	0.995	
Copper	0.874	0.498	0.995	
Lead	337	0.498	0.995	
Molybdenum	ND	0.249	0.995	
Nickel	0.731	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	13.6	0.249	0.995	
Zinc	22.7	0.995	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA2-2@6"	**15-05-1860-18-A**	**05/21/15 12:18**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:14**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	0.960	0.739	0.985	
Arsenic	1.19	0.739	0.985	
Barium	31.4	0.493	0.985	
Beryllium	ND	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	1.95	0.246	0.985	
Cobalt	2.33	0.246	0.985	
Copper	9.49	0.493	0.985	
Lead	77.8	0.493	0.985	
Molybdenum	0.401	0.246	0.985	
Nickel	5.22	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	13.6	0.246	0.985	
Zinc	20.1	0.985	0.985	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA2-2@18"	**15-05-1860-19-A**	**05/21/15 12:20**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:16**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	1.58	0.750	1.00	
Arsenic	2.30	0.750	1.00	
Barium	40.7	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	1.49	0.250	1.00	
Cobalt	5.39	0.250	1.00	
Copper	0.866	0.500	1.00	
Lead	17.9	0.500	1.00	
Molybdenum	1.24	0.250	1.00	
Nickel	0.772	0.250	1.00	
Selenium	0.976	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	27.2	0.250	1.00	
Zinc	30.8	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Newland Sierra

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA2-3@6"	**15-05-1860-20-A**	**05/21/15 12:30**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:17**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	1.20	0.735	0.980	
Barium	47.7	0.490	0.980	
Beryllium	ND	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	4.83	0.245	0.980	
Cobalt	3.64	0.245	0.980	
Copper	1.62	0.490	0.980	
Lead	52.5	0.490	0.980	
Molybdenum	0.268	0.245	0.980	
Nickel	3.32	0.245	0.980	
Selenium	0.941	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	14.9	0.245	0.980	
Zinc	11.8	0.980	0.980	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA2-3@18"	**15-05-1860-21-A**	**05/21/15 12:34**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:18**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	2.30	0.732	0.976	
Barium	48.8	0.488	0.976	
Beryllium	0.308	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	4.69	0.244	0.976	
Cobalt	7.40	0.244	0.976	
Copper	ND	0.488	0.976	
Lead	8.67	0.488	0.976	
Molybdenum	0.346	0.244	0.976	
Nickel	2.48	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	20.0	0.244	0.976	
Zinc	9.03	0.976	0.976	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Newland Sierra

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A3@6"	**15-05-1860-29-A**	**05/21/15 13:50**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 20:23**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	0.870	0.743	0.990	
Barium	73.6	0.495	0.990	
Beryllium	ND	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	3.42	0.248	0.990	
Cobalt	4.23	0.248	0.990	
Copper	0.943	0.495	0.990	
Lead	11.7	0.495	0.990	
Molybdenum	0.300	0.248	0.990	
Nickel	2.27	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	15.5	0.248	0.990	
Zinc	20.3	0.990	0.990	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-21083**	**N/A**	**Solid**	**ICP 7300**	**05/27/15**	**05/29/15 14:18**	**150527L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	ND	0.750	1.00	
Barium	ND	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	ND	0.250	1.00	
Cobalt	ND	0.250	1.00	
Copper	ND	0.500	1.00	
Lead	ND	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	ND	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	ND	0.250	1.00	
Zinc	ND	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA4-1@6"	**15-05-1860-1-A**	**05/21/15 09:30**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:21**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA4-1@18"	**15-05-1860-2-A**	**05/21/15 09:35**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:28**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA4-2@6"	**15-05-1860-3-A**	**05/21/15 09:35**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:30**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA4-2@18"	**15-05-1860-4-A**	**05/21/15 09:45**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:32**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA1-1@6"	**15-05-1860-5-A**	**05/21/15 10:30**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:34**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA1-1@18"	**15-05-1860-6-A**	**05/21/15 10:35**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:37**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA3-1@6"	**15-05-1860-7-A**	**05/21/15 11:11**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:39**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA3-1@18"	**15-05-1860-8-A**	**05/21/15 11:14**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:46**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA3-2@6"	**15-05-1860-10-A**	**05/21/15 11:10**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:48**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA3-2@18"	**15-05-1860-11-A**	**05/21/15 11:15**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:50**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA3-3@6"	**15-05-1860-13-A**	**05/21/15 11:23**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:52**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA3-3@18"	**15-05-1860-14-A**	**05/21/15 11:27**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:54**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA2-1@6"	**15-05-1860-15-A**	**05/21/15 12:04**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:57**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA2-1@18"	**15-05-1860-16-A**	**05/21/15 12:08**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:59**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA2-2@6"	**15-05-1860-18-A**	**05/21/15 12:18**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 22:01**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA2-2@18"	**15-05-1860-19-A**	**05/21/15 12:20**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 22:03**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA2-3@6"	**15-05-1860-20-A**	**05/21/15 12:30**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 22:05**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SA2-3@18"	**15-05-1860-21-A**	**05/21/15 12:34**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 22:12**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A3@6"	**15-05-1860-29-A**	**05/21/15 13:50**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 22:14**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-1306**	**N/A**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:12**	**150529L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A1@6"	**15-05-1860-23-A**	**05/21/15 13:21**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 16:50**	**150527L01**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	24-168	
2,4,5,6-Tetrachloro-m-Xylene	86	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A2@6"	**15-05-1860-26-A**	**05/21/15 13:34**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 13:36**	**150527L01**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	114	24-168	
2,4,5,6-Tetrachloro-m-Xylene	97	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A3@6"	**15-05-1860-29-A**	**05/21/15 13:50**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 17:06**	**150527L01**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	110	24-168	
2,4,5,6-Tetrachloro-m-Xylene	98	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.		Date Received:	05/22/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-05-1860
San Diego, CA 92123-4425		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Newland Sierra			Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A4@6"	**15-05-1860-32-A**	**05/21/15 13:58**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 17:21**	**150527L01**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	118	24-168	
2,4,5,6-Tetrachloro-m-Xylene	98	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A5@6"	**15-05-1860-35-A**	**05/21/15 14:08**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 17:51**	**150527L01**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	135	24-168	
2,4,5,6-Tetrachloro-m-Xylene	110	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.		Date Received:	05/22/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-05-1860
San Diego, CA 92123-4425		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Newland Sierra			Page 6 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A6@6"	**15-05-1860-38-A**	**05/21/15 14:21**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 18:06**	**150527L01**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	108	24-168	
2,4,5,6-Tetrachloro-m-Xylene	99	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A7@6"	**15-05-1860-41-A**	**05/21/15 14:37**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 18:21**	**150527L01**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	118	24-168	
2,4,5,6-Tetrachloro-m-Xylene	109	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A8@6"	**15-05-1860-44-A**	**05/21/15 14:54**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 18:36**	**150527L01**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	110	24-168	
2,4,5,6-Tetrachloro-m-Xylene	99	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A9@6"	**15-05-1860-46-A**	**05/21/15 15:01**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 18:52**	**150527L01**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	109	24-168	
2,4,5,6-Tetrachloro-m-Xylene	101	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: Newland Sierra

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A10@6"	**15-05-1860-49-A**	**05/21/15 15:17**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 20:43**	**150527L01**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	106	24-168	
2,4,5,6-Tetrachloro-m-Xylene	111	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Project: Newland Sierra

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
A11@6"	**15-05-1860-52-A**	**05/21/15 15:39**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 20:59**	**150527L01**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	160	24-168	
2,4,5,6-Tetrachloro-m-Xylene	137	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

LEIGHTON AND ASSOCIATES, INC.
3934 Murphy Canyon Road, Suite B205
San Diego, CA 92123-4425

Date Received: 05/22/15
Work Order: 15-05-1860
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: Newland Sierra

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2117**	**N/A**	**Solid**	**GC 41**	**05/27/15**	**05/27/15 17:01**	**150527L01**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

LEIGHTON AND ASSOCIATES, INC.	Date Received:	05/22/15
3934 Murphy Canyon Road, Suite B205	Work Order:	15-05-1860
San Diego, CA 92123-4425	Preparation:	EPA 3050B
	Method:	EPA 6010B
Project: Newland Sierra		Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SA4-1@6"	**Sample**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 19:51**	**150527S05**
SA4-1@6"	**Matrix Spike**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 19:53**	**150527S05**
SA4-1@6"	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 19:54**	**150527S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	4.630	25.00	15.78	45	51.65	188	50-115	106	0-20	3,4
Arsenic	3.284	25.00	26.31	92	44.49	165	75-125	51	0-20	3,4
Barium	30.10	25.00	54.45	97	56.87	107	75-125	4	0-20	
Beryllium	0.3650	25.00	24.69	97	24.33	96	75-125	1	0-20	
Cadmium	ND	25.00	24.99	100	24.53	98	75-125	2	0-20	
Chromium	0.3474	25.00	26.06	103	25.67	101	75-125	2	0-20	
Cobalt	1.055	25.00	26.89	103	26.10	100	75-125	3	0-20	
Copper	10.64	25.00	38.21	110	39.10	114	75-125	2	0-20	
Lead	983.1	25.00	1209	4X	3910	4X	75-125	4X	0-20	Q
Molybdenum	ND	25.00	23.94	96	22.95	92	75-125	4	0-20	
Nickel	0.2744	25.00	26.25	104	25.70	102	75-125	2	0-20	
Selenium	ND	25.00	24.33	97	24.05	96	75-125	1	0-20	
Silver	ND	12.50	11.96	96	12.15	97	75-125	2	0-20	
Thallium	ND	25.00	17.14	69	24.17	97	75-125	34	0-20	3,4
Vanadium	1.829	25.00	26.28	98	25.68	95	75-125	2	0-20	
Zinc	19.48	25.00	49.13	119	43.45	96	75-125	12	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

LEIGHTON AND ASSOCIATES, INC.	Date Received:	05/22/15
3934 Murphy Canyon Road, Suite B205	Work Order:	15-05-1860
San Diego, CA 92123-4425	Preparation:	EPA 7471A Total
	Method:	EPA 7471A
Project: Newland Sierra		Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SA4-1@6"	**Sample**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:21**	**150529S05**
SA4-1@6"	**Matrix Spike**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:23**	**150529S05**
SA4-1@6"	**Matrix Spike Duplicate**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:25**	**150529S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7700	92	0.8011	96	71-137	4	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

LEIGHTON AND ASSOCIATES, INC.	Date Received:	05/22/15
3934 Murphy Canyon Road, Suite B205	Work Order:	15-05-1860
San Diego, CA 92123-4425	Preparation:	EPA 3545
	Method:	EPA 8081A
Project: Newland Sierra		Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
A2@6"	**Sample**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 13:36**	**150527S01**
A2@6"	**Matrix Spike**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 12:30**	**150527S01**
A2@6"	**Matrix Spike Duplicate**	**Solid**	**GC 41**	**05/27/15**	**05/28/15 12:46**	**150527S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	20.92	84	15.11	60	50-135	32	0-25	4
Alpha-BHC	ND	25.00	20.94	84	15.04	60	50-135	33	0-25	4
Beta-BHC	ND	25.00	22.88	92	16.88	68	50-135	30	0-25	4
4,4'-DDD	ND	25.00	30.89	124	25.12	100	50-135	21	0-25	
4,4'-DDE	ND	25.00	27.12	108	20.08	80	50-135	30	0-25	4
4,4'-DDT	ND	25.00	15.66	63	8.333	33	50-135	61	0-25	3,4
Delta-BHC	ND	25.00	23.40	94	17.24	69	50-135	30	0-25	4
Dieldrin	ND	25.00	25.17	101	18.84	75	50-135	29	0-25	4
Endosulfan I	ND	25.00	21.65	87	16.33	65	50-135	28	0-25	4
Endosulfan II	ND	25.00	22.44	90	17.48	70	50-135	25	0-25	
Endosulfan Sulfate	ND	25.00	21.04	84	16.59	66	50-135	24	0-25	
Endrin	ND	25.00	24.01	96	17.09	68	50-135	34	0-25	4
Endrin Aldehyde	ND	25.00	15.34	61	2.548	10	50-135	143	0-25	3,4
Gamma-BHC	ND	25.00	21.69	87	15.55	62	50-135	33	0-25	4
Heptachlor	ND	25.00	20.18	81	13.39	54	50-135	40	0-25	4
Heptachlor Epoxide	ND	25.00	21.56	86	16.32	65	50-135	28	0-25	4
Methoxychlor	ND	25.00	14.75	59	8.298	33	50-135	56	0-25	3,4

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

LEIGHTON AND ASSOCIATES, INC.		Date Received:	05/22/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-05-1860
San Diego, CA 92123-4425		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Newland Sierra			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-21083	**LCS**	**Solid**	**ICP 7300**	**05/27/15**	**05/28/15 19:22**	**150527L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	23.38	94	80-120	73-127	
Arsenic	25.00	21.67	87	80-120	73-127	
Barium	25.00	25.21	101	80-120	73-127	
Beryllium	25.00	21.98	88	80-120	73-127	
Cadmium	25.00	23.61	94	80-120	73-127	
Chromium	25.00	24.50	98	80-120	73-127	
Cobalt	25.00	24.24	97	80-120	73-127	
Copper	25.00	23.16	93	80-120	73-127	
Lead	25.00	23.74	95	80-120	73-127	
Molybdenum	25.00	22.93	92	80-120	73-127	
Nickel	25.00	25.06	100	80-120	73-127	
Selenium	25.00	21.97	88	80-120	73-127	
Silver	12.50	12.00	96	80-120	73-127	
Thallium	25.00	22.62	90	80-120	73-127	
Vanadium	25.00	23.68	95	80-120	73-127	
Zinc	25.00	23.41	94	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

LEIGHTON AND ASSOCIATES, INC.		Date Received:	05/22/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-05-1860
San Diego, CA 92123-4425		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Newland Sierra			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-1306	**LCS**	**Solid**	**Mercury 05**	**05/29/15**	**05/29/15 21:19**	**150529L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.8800	105	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

LEIGHTON AND ASSOCIATES, INC.		Date Received:	05/22/15
3934 Murphy Canyon Road, Suite B205		Work Order:	15-05-1860
San Diego, CA 92123-4425		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Newland Sierra			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2117	**LCS**	**Solid**	**GC 41**	**05/27/15**	**05/27/15 16:46**	**150527L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	13.83	55	50-135	36-149	
Alpha-BHC	25.00	14.48	58	50-135	36-149	
Beta-BHC	25.00	15.37	61	50-135	36-149	
4,4'-DDD	25.00	14.18	57	50-135	36-149	
4,4'-DDE	25.00	14.17	57	50-135	36-149	
4,4'-DDT	25.00	14.93	60	50-135	36-149	
Delta-BHC	25.00	14.18	57	50-135	36-149	
Dieldrin	25.00	15.33	61	50-135	36-149	
Endosulfan I	25.00	14.95	60	50-135	36-149	
Endosulfan II	25.00	15.73	63	50-135	36-149	
Endosulfan Sulfate	25.00	15.05	60	50-135	36-149	
Endrin	25.00	13.17	53	50-135	36-149	
Endrin Aldehyde	25.00	13.33	53	50-135	36-149	
Gamma-BHC	25.00	15.11	60	50-135	36-149	
Heptachlor	25.00	15.00	60	50-135	36-149	
Heptachlor Epoxide	25.00	14.01	56	50-135	36-149	
Methoxychlor	25.00	15.60	62	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-05-1860 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	935	ICP 7300	1
EPA 7471A	EPA 7471A Total	915	Mercury 05	1
EPA 8081A	EPA 3545	421	GC 41	1
EPA 8081A	EPA 3545	669	GC 41	1

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Glossary of Terms and Qualifiers

Work Order: 15-05-1860 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: **15-05-1860**

DATE: 5/21/15
PAGE: 1 OF 6

LABORATORY CLIENT: Leighton & Associates
ADDRESS: 3934 Murphy Canyon RD. Suite B205
CITY: San Diego STATE: CA ZIP: 92123
TEL: (858) 300-8647 E-MAIL: bVoss@Leightongroup.com
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ STANDARD
EDD:
☐ COELT EDF ☐ OTHER

CLIENT PROJECT NAME / NO.: Newland Sierra
PROJECT CONTACT: Bryan Voss
GLOBAL ID:
LOG CODE:
P.O. NO.: 10618.006
LAB CONTACT OR QUOTE NO.: Rachael Villafania
SAMPLER(S): (PRINT) Bryan Voss / Bina Patel

SPECIAL INSTRUCTIONS:
Please Hold SA3-1@ 24"

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (6270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	PAH				
1	SA4-1@6"	5/21/15	9:30	Soil	1																X						
2	SA4-1@18"		9:35																		X						
3	SA4-2@6"		9:35																		X						
4	SA4-2@18"		9:45																		X						
5	SA1-1@6"		10:30																		X						
6	SA1-1@10"		10:35																		X						
7	SA3-1@6"		11:11																		X						
8	SA3-1@18"		11:14																		X						
9	SA3-1@24"		11:17																		X		X				
10	SA3-2@6"		11:10																		X						

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E C I	5/22/15	1430
		5/22/15	1800

2014-07-01 Revision

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CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: 05-1860

DATE: 5/21/15

PAGE: 1 OF 6

LABORATORY CLIENT: Leighton & Associates
ADDRESS: 3934 Murphy Canyon Rd
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-300-8497 E-MAIL: bVoss@Leightengroup.com

CLIENT PROJECT NAME / NO.: Newland Sierra
PROJECT CONTACT: Bryan Voss
GLOBAL ID: LOG CODE:

P.O. NO.: 10618.006
LAB CONTACT OR QUOTE NO.: Richard Villafania
SAMPLER(S): (PRINT) Bryan Voss / Bina Patel

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
Please Hold ~~SA2-2@24"~~ SA3-2@24" and SA2-1@24"

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) GRO	TPH(d) DRO	TPH C6-C36 C6-C44	TPH	BTEX / MTBE 8260	VOCs (8260)	Oxygenates (8260)	Prep (5035) En Core Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs 8270 8270 SIM	T22 Metals 6010/747X 6020/747X	Cr(VI) 7196 7199 218.6	PPH
11	SA3-2@18"	5/21/15	11:15	Soil	1																X		
12	SA3-2@24"		11:20		1																X		X
13	SA3-3@6"		11:23		1																X		
14	SA3-3@18"		11:27		1																X		
15	SA2-1@6"		12:04		1																X		
16	SA2-1@18"		12:08		1																X		
17	SA2-1@24"		12:10		1																X		X
18	SA2-2@6"		12:18		1																X		
19	SA2-2@18"		12:20		1																X		
20	SA2-3@6"		12:30		1																X		

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 5/22/15	Time: 1430
Relinquished by: (Signature)	Received by: (Signature/Affiliation) E C	Date: 5/22/15	Time: 1800
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: 05-1860

DATE: 5/21/15
PAGE: 3 OF 6

LABORATORY CLIENT: Leighton & Associates
ADDRESS: 3934 Murphy Canyon RD
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-300-8497 E-MAIL:

CLIENT PROJECT NAME / NO.: Newland Sierra
PROJECT CONTACT: Bryan Voss
GLOBAL ID: LOG CODE:
P.O. NO.: 10618.006
LAB CONTACT OR QUOTE NO.: Richard Villafania
SAMPLER(S): (PRINT) Bryan Voss/Ping Pate

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
Please Hold SA2-3@24", A1@18", A1@24", A2@18", and A2@24", A3@18"

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) GRO	TPH(d) DRO	TPH C6-C36 C6-C44	TPH	BTEX / MTBE 8260	VOCs (8260)	Oxygenates (8260)	Prep (5035) En Core Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs 8270 8270 SIM	T22 Metals 6010/747X 6020/747X	Cr(VI) 7196 7199 218.6	Hold
21	SA2-3@18"	5/21/15	12:34	Soil	1																X		
22	SA2-3@24"		12:36		1																X		X
23	A1@6"		1321		1													X			X		
24	A1@18"		1322		1																		X
25	A1@24"		1323		1																		X
26	A2@6"		13:34		1													X					
27	A2@18"		13:38		1																		X
28	A2@24"		13:40		1																		X
29	A3@6"		13:50		1													X			X		
30	A3@18"	↓	13:51	↓	1																		X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 5/22/15	Time: 1430
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 5/22/15	Time: 1800
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: 05-1860

DATE: 5/21/15

PAGE: 4 OF 6

LABORATORY CLIENT: Leighton & Associates

ADDRESS: 3934 Murphy Canyon RD

CITY: San Diego STATE: CA ZIP: 92123

TEL: 858-300-8497 E-MAIL: bVoss@Leightongroup.com

CLIENT PROJECT NAME / NO.: Newland Sierra

PROJECT CONTACT: Bryan Voss

P.O. NO.: 10618.006

LAB CONTACT OR QUOTE NO.: Richard Villafuerte

GLOBAL ID:

LOG CODE:

SAMPLER(S): (PRINT) Bryan Voss / Brian Pyle

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
Please Hold samples as Noted.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	PAH			
31	A3 @ 24"	5/21/15	13:52	Soil	1																		X			
32	A4 @ 6"		13:58															X								
33	A4 @ 18"		14:01																				X			
34	A4 @ 24"		14:04																				X			
35	A5 @ 6"		14:08															X								
36	A5 @ 18"		14:10																				X			
37	A5 @ 24"		14:15																				X			
38	A10 @ 6"		14:21															X								
39	A10 @ 18"		14:23																				X			
40	A10 @ 24"		14:24																				X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 5/22/15	Time: 1430
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC	Date: 5/22/15	Time: 1800
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2014-07-01 Revision

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CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: 05-1860

DATE: 5/21/15
PAGE: 5 OF 6

LABORATORY CLIENT: Leighton & Associates
ADDRESS: 3934 Murphy Canyon RD
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-300-8847 E-MAIL: bVoss@Leightongroup.com

CLIENT PROJECT NAME / NO.: Newland Sierra
PROJECT CONTACT: Bryan Voss
GLOBAL ID: LOG CODE:

P.O. NO.: 10618.006
LAB CONTACT OR QUOTE NO.: Richard Villafania
SAMPLER(S): (PRINT) Bryan Voss / Bina Patel

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
Please Hold Samples as Noted.

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	TPH			
41	A7@6"	5/21/15	14:37	Soil	1													X					X			
42	A7@18"		14:40		1																		XX			
43	A7@24"		14:45		1																		XX			
44	A8@6"		14:54		1													X								
45	A8@18"		14:59		1																		X			
46	A9@6"		15:01		1													X								
47	A9@18"		15:03		1																		XX			
48	A9@24"		15:07		1																		XX			
49	A10@6"		15:17		1													X								
50	A10@18"	↓	15:19	↓	1																		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E Cl	5/22/15	1430
		5/22/15	1800

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CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: 05 - 1860

DATE: 5/21/15
PAGE: 6 OF 6

LABORATORY CLIENT: Leighton & Associates
ADDRESS: 3934 Murphy Canyon RD
CITY: San Diego STATE: CA ZIP: 92123
TEL: E-MAIL: Wcsa@leightongroup.com

CLIENT PROJECT NAME / NO.: Newland Sierra
P.O. NO.: 10618.006
PROJECT CONTACT: Bryan Voss
LAB CONTACT OR QUOTE NO.: Richard Villafuerte
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Bryan Voss / Bina Patel

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
Please Hold Samples as Noted.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH _____	BTEX / MTBE ☐ 8260 ☐ _____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	PIA11			
51	Alle 24"	5/21/15	15:20	Soil	1																		X			
52	Alle 6"	"	15:39	"	"													X								
53	Alle 18"	"	15:40	"	"																		X			
54	Alle 24"	"	15:41	"	"																		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 5/22/15	Time: 1430
Relinquished by: (Signature)	Received by: (Signature/Affiliation) ECS	Date: 5/22/15	Time: 1800
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2014-07-01 Revision

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WORK ORDER NUMBER: 15-05- 1860

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Leighton & Associates

DATE: 05 / 22 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.1 °C (w/ CF): 2.8 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 820

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 820

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: 150514A)

Aqueous: ☐ VOA ☑ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☑ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 681

Reviewed by: 689

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WORK ORDER NUMBER: 15-05- 1860

SAMPLE ANOMALY REPORT

DATE: 05 / 22 / 2015

SAMPLES, CONTAINERS, AND LABELS:

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☑ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired (list client or ECI sample ID and analysis)
- ☐ Insufficient sample amount for requested analysis (list analysis)
- ☐ Improper container(s) used (list analysis)
- ☐ Improper preservative used (list analysis)
- ☐ No preservative noted on COC or label (list analysis and notify lab)
- ☐ Sample container(s) not labeled
- ☐ Client sample label(s) illegible (list container type and analysis)
- ☑ Client sample label(s) do not match COC (comment)
  - ☐ Project information
  - ☑ Client sample ID
  - ☑ Sampling date and/or time
  - ☐ Number of container(s)
  - ☐ Requested analysis
- ☐ Sample container(s) compromised (comment)
  - ☐ Broken
  - ☐ Water present in sample container
- ☐ Air sample container(s) compromised (comment)
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (not transferred; duplicate bag submitted)
  - ☐ Leaking (transferred into ECI Tedlar™ bags*)
  - ☐ Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

Comments

(-55) Trip Blanks (CEL 150514A) Received 2 vials w. HCl but not listed on COC.

(-3) Collection time per Label is 9:40

(-1) labeled as SA4-2 @ 6" Collection date and time matched.

MISCELLANEOUS: (Describe)

Comments

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: _____

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

Reported by: 681

Reviewed by: 682

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Mobile
Geochemistry Inc.

24 June 2015

Mr. Kevin Bryan
Leighton & Associates - Irvine
17781 Cowan
Irvine, CA, CA 92614

H&P Project: LC061915-L4
Client Project: 10618.006 / Deer Springs Road

Dear Mr. Kevin Bryan:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 19-Jun-15 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis Villarreal

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV5-12' 1PV	E506079-01	Vapor	19-Jun-15	19-Jun-15
SV5-12' 3PV	E506079-02	Vapor	19-Jun-15	19-Jun-15
SV5-12' 10PV	E506079-03	Vapor	19-Jun-15	19-Jun-15
SV5-5'	E506079-04	Vapor	19-Jun-15	19-Jun-15
SV3-5'	E506079-05	Vapor	19-Jun-15	19-Jun-15
SV3-5' Rep	E506079-06	Vapor	19-Jun-15	19-Jun-15
SV4-9.5'	E506079-07	Vapor	19-Jun-15	19-Jun-15
SV4-5'	E506079-08	Vapor	19-Jun-15	19-Jun-15
SV1-5'	E506079-09	Vapor	19-Jun-15	19-Jun-15
SV2-5'	E506079-10	Vapor	19-Jun-15	19-Jun-15

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

DETECTIONS SUMMARY

Sample ID: **SV5-12' 1PV** Laboratory ID: **E506079-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**0.10**	0.10	ug/l	H&P 8260SV	

Sample ID: **SV5-12' 3PV** Laboratory ID: **E506079-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV5-12' 10PV** Laboratory ID: **E506079-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV5-5'** Laboratory ID: **E506079-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV3-5'** Laboratory ID: **E506079-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV3-5' Rep** Laboratory ID: **E506079-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV4-9.5'** Laboratory ID: **E506079-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV4-5'** Laboratory ID: **E506079-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Sample ID: **SV1-5'** Laboratory ID: **E506079-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV2-5'** Laboratory ID: **E506079-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**0.15**	0.10	ug/l	H&P 8260SV	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV5-12' 1PV (E506079-01) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.00	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.00	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.00	"	"	"	"	"	"	
Benzene	**0.10**	0.10	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	

H&P Mobile
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Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV5-12' 3PV (E506079-02) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.00	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.00	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.00	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.1 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	

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Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV5-12' 10PV (E506079-03) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.00	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.00	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.00	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.4 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	

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Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Volatile Organic Compounds by H&P 8260SV

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV5-5' (E506079-04) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.00	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.00	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.00	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*105 %*		*75-125*	"	"	"	"	

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Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Volatile Organic Compounds by H&P 8260SV

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3-5' (E506079-05) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.00	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.00	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.00	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.4 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*75-125*		"	"	"	"	

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Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3-5' Rep (E506079-06) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.00	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.00	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.00	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*93.9 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	

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Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV4-9.5' (E506079-07) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.00	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.00	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.00	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	

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Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV4-5' (E506079-08) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.00	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.00	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.00	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*109 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

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Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV1-5' (E506079-09) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.00	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.00	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.00	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94.2 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	

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Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV2-5' (E506079-10) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.00	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.00	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.00	"	"	"	"	"	"	
Benzene	**0.15**	0.10	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*75-125*		"	"	"	"	

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Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Petroleum Hydrocarbon Analysis

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV5-12' 1PV (E506079-01) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
TPHv (C5 - C12)	ND	200	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
SV5-12' 3PV (E506079-02) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
TPHv (C5 - C12)	ND	200	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
SV5-12' 10PV (E506079-03) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
TPHv (C5 - C12)	ND	200	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
SV5-5' (E506079-04) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
TPHv (C5 - C12)	ND	200	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
SV3-5' (E506079-05) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
TPHv (C5 - C12)	ND	200	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
SV3-5' Rep (E506079-06) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
TPHv (C5 - C12)	ND	200	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
SV4-9.5' (E506079-07) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
TPHv (C5 - C12)	ND	200	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
SV4-5' (E506079-08) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
TPHv (C5 - C12)	ND	200	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	
SV1-5' (E506079-09) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
TPHv (C5 - C12)	ND	200	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	

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Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Petroleum Hydrocarbon Analysis

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV2-5' (E506079-10) Vapor Sampled: 19-Jun-15 Received: 19-Jun-15									
TPHv (C5 - C12)	ND	200	ug/l	0.05	EF51905	19-Jun-15	19-Jun-15	H&P 8260SV	

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17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF51905 - EPA 5030										
Blank (EF51905-BLK1)				Prepared & Analyzed: 19-Jun-15						
1,1-Difluoroethane (LCC)	ND	0.50	ug/l							
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"							
Diisopropyl ether (DIPE)	ND	1.00	"							
Ethyl tert-butyl ether (ETBE)	ND	1.00	"							
Tertiary-amyl methyl ether (TAME)	ND	1.00	"							
Benzene	ND	0.10	"							
Toluene	ND	1.00	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	0.50	"							
o-Xylene	ND	0.50	"							
Tertiary-butyl alcohol (TBA)	ND	5.00	"							
Naphthalene	ND	0.10	"							
Chloroform	ND	0.10	"							
Dichlorodifluoromethane (F12)	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane (EDC)	ND	0.10	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"							
Methylene chloride (Dichloromethane)	ND	0.50	"							
Tetrachloroethene	ND	0.10	"							
1,1,2-Trichloroethane	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.10	"							
Trichlorofluoromethane (F11)	ND	0.50	"							
Vinyl chloride	ND	0.05	"							
Surrogate: Dibromofluoromethane	*2.60*		*"*	*2.50*		*104*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.36*		*"*	*2.50*		*94.5*	*75-125*			
Surrogate: Toluene-d8	*2.49*		*"*	*2.50*		*99.8*	*75-125*			

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Leighton & Associates - Irvine	Project: LC061915-L4	
17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF51905 - EPA 5030										
LCS (EF51905-BS1)				Prepared & Analyzed: 19-Jun-15						
Benzene	4.9	0.10	ug/l	5.00		97.4	70-130			
Toluene	4.7	1.00	"	5.00		93.4	70-130			
Ethylbenzene	5.3	0.50	"	5.00		107	70-130			
m,p-Xylene	10	0.50	"	10.0		100	70-130			
o-Xylene	5.0	0.50	"	5.00		100	70-130			
Chloroform	4.9	0.10	"	5.00		97.8	70-130			
Dichlorodifluoromethane (F12)	4.0	0.50	"	5.00		80.1	70-130			
1,1-Dichloroethane	4.9	0.50	"	5.00		97.9	70-130			
1,2-Dichloroethane (EDC)	5.0	0.10	"	5.00		100	70-130			
1,1-Dichloroethene	5.8	0.50	"	5.00		117	70-130			
cis-1,2-Dichloroethene	5.1	0.50	"	5.00		103	70-130			
trans-1,2-Dichloroethene	5.0	0.50	"	5.00		100	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	6.4	0.50	"	5.00		128	70-130			
Methylene chloride (Dichloromethane)	4.7	0.50	"	5.00		93.1	70-130			
Tetrachloroethene	5.1	0.10	"	5.00		102	70-130			
1,1,2-Trichloroethane	4.9	0.50	"	5.00		98.2	70-130			
1,1,1-Trichloroethane	4.8	0.50	"	5.00		95.2	70-130			
Trichloroethene	4.9	0.10	"	5.00		98.2	70-130			
Trichlorofluoromethane (F11)	4.6	0.50	"	5.00		91.0	70-130			
Vinyl chloride	4.8	0.05	"	5.00		96.5	70-130			
Surrogate: Dibromofluoromethane	*2.77*		*"*	*2.50*		*111*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.42*		*"*	*2.50*		*96.8*	*75-125*			
Surrogate: Toluene-d8	*2.48*		*"*	*2.50*		*99.2*	*75-125*			

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17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Petroleum Hydrocarbon Analysis - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF51905 - EPA 5030										
Blank (EF51905-BLK1)				Prepared & Analyzed: 19-Jun-15						
TPHv (C5 - C12)	ND	200	ug/l							

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17781 Cowan	Project Number: 10618.006 / Deer Springs Road	Reported:
Irvine, CA, CA 92614	Project Manager: Mr. Kevin Bryan	24-Jun-15 14:27

Notes and Definitions

LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L11-175.

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

Mobile Geochemistry, Inc.
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VAPOR / AIR Chain of Custody

DATE: 6/19/15
Page 1 of 1

Lab Client and Project Information

Lab Client/Consultant: LEIGHTON ~~CONSULTING~~ ASSOCIATES	Project Name / #: 10618.006
Lab Client Project Manager: KEVIN BRYAN	Project Location: DEER SPRINGS RD. ESCONDIDO
Lab Client Address: 17781 COWAN DJM 6/19	Report E-Mail(s): KBRYAN @LEIGHTONGROUP.COM KHALL
Lab Client City, State, Zip: IRVINE, CA 92614	
Phone Number: 949-681-4285	

Sample Receipt (Lab Use Only)

Date Rec'd: 6/19	Control #: 150505.00101
H&P Project #	LC061915-L4
Lab Work Order #	E506079
Sample Intact: ☑ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp: 20°C
Outside Lab:	
Receipt Notes/Tracking #:	Lab PM Initials:

Reporting Requirements

☑ Standard Report ☐ Level III ☐ Level IV
☑ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☑ Mobile Lab
☐ 48-Hr Rush ☐ Other:____

Sampler Information

Sampler(s): D. MILLAR
Signature:
Date: 6/19/15

Additional Instructions to Laboratory:

☑ Check if Project Analyte List is Attached
EF51905
SAM A+B
*Preferred VOC units (please choose one):
☑ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☐ TO-15	VOCs Short List / Project List ☑ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☑ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☑ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SV5-12' 1PV		6/19/15	840	SV	GLASS SYRINGE				✓			✓			✓					
SV5-12' 3PV			905						✓			✓			✓					
SV5-12' 10PV			928						✓			✓			✓					
SV5-5'			955						✓			✓			✓					
SV3-5'			1031						✓			✓			✓					
SV3-5' REP			1031						✓			✓			✓					
SV4-9.5'			1135						✓			✓			✓					
SV4-5'			1145						✓			✓			✓					
SV1-5'			1240						✓			✓			✓					
SV2-5'			1340						✓			✓			✓					

Approved/Relinquished by: Kevin C. Mail	Company: L/A	Date: 6/19/15	Time: 1410	Received by: DONALD J. MILLAR	Company: H&P	Date: 6/19/15	Time: 1410
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Rev 08/18/2014

H&P

H&P Mobile Geochemistry, Inc.
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Field Office in Signal Hill, CA (Los Angeles)
Ph: 800-834-9888 www.handpmg.com

H&P Method 8260SV (Modified EPA 8260B)
Soil Vapor VOC List per SD SAM + TPH gas

Compound - SAM List A Fuels	*CAS #*	*Standard RL Vapor (µg/L)*
Methyl tertiary-butyl ether (MTBE)	1634-04-4	0.5
Diisopropyl ether (DIPE)	108-20-3	1
Ethyl tertiary-butyl ether (ETBE)	637-92-3	1
Benzene	71-43-2	0.1
Tertiary-amyl methyl ether (TAME)	994-05-8	1
Toluene	108-88-3	1
Ethylbenzene	100-41.4	0.5
m,p-Xylene	179601-23-1	0.5
o-Xylene	95-47-6	0.5
Naphthalene	91-20-3	0.1
Tertiary-butyl alcohol (TBA)	75-65-0	5

Compound - SAM List B Solvents	*CAS #*	*Standard RL Vapor (µg/L)*
Dichlorodifluoromethane (F12)	75-71-8	0.5
Vinyl chloride	75-01-4	0.05
Trichlorofluoromethane (F11)	75-69-4	0.5
1,1-Dichloroethene	75-35-4	0.5
1,1,2-Trichlorotrifluoroethane (F113)	76-13-1	0.5
Methylene chloride (Dichloromethane)	75-09-2	0.5
trans-1,2-Dichloroethene	156-60-5	0.5
1,1-Dichloroethane	75-34-3	0.5
cis-1,2-Dichloroethene	156-59-2	0.5
Chloroform	67-66-3	0.1
1,1,1-Trichloroethane	71-55-6	0.5
1,2-Dichloroethane (EDC)	107-06-2	0.1
Trichloroethene	79-01-6	0.1
1,1,2-Trichloroethane	79-00-5	0.5
Tetrachloroethene	127-18-4	0.1

Leak Check Compound		
1,1-Difluoroethane (LCC)	75-37-6	~~10~~ 0.5 ppb 1/24/15
TPH by LUFT GC/MS		
TPH gas (C5-C12)		200

H&P Mobile Geochemistry Inc.

FMS004
Revision: 2
Revised: 12/4/14
Effective: 1/1/15
Page 1 of 1

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: LCOG1915-L4 Date: 6/19/15

Site Address: MESA ROCK RD AND DEER SPRINGS, ESCONDIDO Page: 1 of

Consultant: LEIGHTON CONSULTING H&P Rep(s): D. MILLAR, E. CORSON, K. SCHINDLER

Consultant Rep(s): KEVIN HALL

Reviewed: DB

Scanned: JK

Purge Volume Calculation

PVT Probe ID, if applicable:	SV5-12'	Fitting: 20mL		
Tubing:	Length: 14'	Diameter: 1/8	1 Volume:	14cc
Sand Pack:	Height: /	Diameter: /	1 Volume:	/
Dry Bentonite:	Height: /	Diameter: /	1 Volume:	/
PVT Increments:	1 PV = 34cc	3 PV= 102	10 PV = 340	
PV Amount Selected:	1 PV	Selected by: K. HALL		

Sample Volume

☑ 50cc Glass Syringe ☐ 100cc Glass Syringe ☐ Other_____

Leak Check Compound

☑ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other_____

A cloth saturated with LCC is placed around tubing connections and at the probe seal. This is done prior to every soil vapor sample collected unless otherwise noted in the field notes below.

	Sample Information				Probe Specs							Collection Information				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Ht (in.)	Sand Pack Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Purge Vol (mL)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Vacuum ("Hg)	Field Notes
1	SV5-12' 1PV	187	6/19	840	12'	14'	1/8	/	/	/	/	34cc	✓	<200	Ø	✓
2	SV5-12' 3PV	190	6/19	905	12'	14'	1/8	/	/	/	/	102cc	✓	<200	Ø	✓
3	SV5-12' 10PV	151	6/19	928	12'	14'	1/8	/	/	/	/	340cc	✓	<200	Ø	✓
4	SV5-5'	188	6/19	955	~~12~~	10'	1/8	/	/	/	/	30cc	✓	<200	Ø	5' PROBE DEPTH DSM 6/19
5	SV3-5'	187	6/19	1031	5'	10'	48	/	/	/	/	30cc	✓	<200	Ø	✓
6	SV3-5' REP	190	6/19	1031	5'	10'	1/8	/	/	/	/	80cc	✓	<200	Ø	✓
7	SV4-9.5'	151	6/19	1135	9.5	14'	1/8	/	/	/	/	34cc	✓	<200	Ø	✓
8	SV4-5'	187	6/19	1145	5'	10'	1/8	/	/	/	/	30cc	✓	<200	Ø	✓
9	SV1-5'	171	6/19	1240	5'	10'	1/8	/	/	/	/	30cc	✓	<200	Ø	✓
10	SV2-5'	190	6/19	1340	5'	10'	1/8	/	/	/	/	30cc	✓	<200	Ø	✓
11																
12																

Site Notes (e.g. weather, visitors, scope deviations, health & safety issues, etc.):

5' → 10' tubing

20mL PRT FITTING

20mL + 14mL = 34cc

APPENDIX E

HUMAN HEALTH RISK CALCULATION PRINTOUTS

Leighton

Case Name:
Newland, 10618.006

CHEMICAL OF CONCERN:

Enter Chemical Name = benzene

C11 benzene
C12 benzo(a)pyrene
C13 carbon tetrachloride
C14 chlorobenzene
C15 chloroethane (ethyl chloride)
C16 chloromethane (methyl chloride)
C17 1,2-dichlorobenzene
C18 1,3-dichlorobenzene
C19 1,4-dichlorobenzene
C20 1,1-dichloroethene (1,1-DCE)
C21 trans-1,2-dichloroethene
C22 1,1-dichloroethane (1,1-DCA)
C23 1,2-dichloroethane (1,2-DCA)

E11 dichloromethane (methylene chloride)
E12 ethylbenzene
E13 naphthalene
E14 methyl tertiary butyl ether (MTBE)
E15 tetrachloroethene (PCE)
E16 toluene
E17 1,1,1-trichloroethane
E18 1,1,2-trichloroethane
E19 trichloroethene (TCE)
E20 trichloromethane (chloroform)
E21 vinyl chloride
E22 xylene

Chemical Mixture (if app.) = Gasoline

C27 Gasoline
C28 Kerosene
C29 Diesel

E27 Fuel Oil
E28 Waste Oil

If compound is not listed then data must be entered into the site-specific field.

SITE SPECIFIC INFORMATION			Site-Specific	Value Used
Mole fraction	dimensionless	MF		0.0000
Temperature	K	T		293
Water concentration (chemical)	ug/l	C_w		0
Soil concentration (chemical)	mg/kg	C_t		0
Soil concentration (TPH/TRPH)	mg/kg	C_t		0
Soil gas concentration (measured)	mg/m3 (ug/l)	$C_{sg}(m)$	0.15	0.15
Depth of contamination or Soil Gas	m	X	1.524	1.524

CHEMICAL PROPERTIES			**Site Specific**	**Value Used**
Henry's Law Constant	dimensionless	H		0.23
Vapor pressure	atm	VP		0.13
Molecular weight (chemical)	mg/mole	MW		78,110
Molecular weight (mixture)	mg/mole	MW(m)		100,000
Universal gas constant	atm-m3/mole-K	R	XXXXXXXXXX	8.20E-05
Diffusion coefficient in air	cm2/sec	D_a		0.088
Organic carbon partitioning coef.	cm3/gm	K_{oc}		62
SOIL PROPERTIES				
Total porosity	dimensionless	θ		0.3
Air-filled porosity	dimensionless	θ_a		0.2
Water-filled porosity	dimensionless	θ_w	XXXXXXXXXX	0.1
Bulk density (dry)	gm/cc	r_b		1.8
Weight fraction of organic carbon	dimensionless	foc		0.01
BUILDING SPECIFICATIONS				
Floor area of building	m2	A		1
% of floor area that flux occurs	dimensionless		500%	500%
Interior Height of building	m	R_h		2.44
Exchange rate of air	exchanges/hr	E	0.5	0.5
Slab Attenuation factor	dimensionless	S_b	0.01	0.01
OUTDOOR AIR COMPONENT				
Downwind contamination length	m	L		0
Wind speed	m/hr	u		16000
Height of building openings	m	h		2
EXPOSURE SCENARIO Default values are for Industrial Uses				
Body weight	kg	BW	15	15
Inhalation rate	m3/day	IR	10	10
Exposure duration	yrs	ED	30	30
Hours per day	hr/day		24	24
Days per week	days/week		7	7
Weeks per year	weeks/yr		52	52
HEALTH RISK FACTORS				
Reference dose	mg/kg-day	RfD		0.0086
Slope factor (potency)	1/(mg/kg-day)	SF		0.1

Case Name:
Newland, 10618.006

CHEMICAL OF CONCERN:

Enter Chemical Name = benzene

C11 benzene
C12 benzo(a)pyrene
C13 carbon tetrachloride
C14 chlorobenzene
C15 chloroethane (ethyl chloride)
C16 chloromethane (methyl chloride)
C17 1,2-dichlorobenzene
C18 1,3-dichlorobenzene
C19 1,4-dichlorobenzene
C20 1,1-dichloroethene (1,1-DCE)
C21 trans-1,2-dichloroethene
C22 1,1-dichloroethane (1,1-DCA)
C23 1,2-dichloroethane (1,2-DCA)

E11 dichloromethane (methylene chloride)
E12 ethylbenzene
E13 naphthalene
E14 methyl tertiary butyl ether (MTBE)
E15 tetrachloroethene (PCE)
E16 toluene
E17 1,1,1-trichloroethane
E18 1,1,2-trichloroethane
E19 trichloroethene (TCE)
E20 trichloromethane (chloroform)
E21 vinyl chloride
E22 xylene

Chemical Mixture (if app.) = Gasoline

C27 Gasoline
C28 Kerosene
C29 Diesel

E27 Fuel Oil
E28 Waste Oil

If compound is not listed then data must be entered into the site-specific field.

SITE SPECIFIC INFORMATION			Site-Specific	Value Used
Mole fraction	dimensionless	MF		0.0000
Temperature	K	T		293
Water concentration (chemical)	ug/l	C_w		0
Soil concentration (chemical)	mg/kg	C_t		0
Soil concentration (TPH/TRPH)	mg/kg	C_t		0
Soil gas concentration (measured)	mg/m3 (ug/l)	$C_{sg}(m)$	0.1	0.1
Depth of contamination or Soil Gas	m	X	3.6576	3.6576

CHEMICAL PROPERTIES			**Site Specific**	**Value Used**
Henry's Law Constant	dimensionless	H		0.23
Vapor pressure	atm	VP		0.13
Molecular weight (chemical)	mg/mole	MW		78,110
Molecular weight (mixture)	mg/mole	MW(m)		100,000
Universal gas constant	atm-m3/mole-K	R	XXXXXXXXXX	8.20E-05
Diffusion coefficient in air	cm2/sec	D_a		0.088
Organic carbon partitioning coef.	cm3/gm	K_{oc}		62
SOIL PROPERTIES				
Total porosity	dimensionless	θ		0.3
Air-filled porosity	dimensionless	θ_a		0.2
Water-filled porosity	dimensionless	θ_w	XXXXXXXXXX	0.1
Bulk density (dry)	gm/cc	r_b		1.8
Weight fraction of organic carbon	dimensionless	foc		0.01
BUILDING SPECIFICATIONS				
Floor area of building	m2	A		1
% of floor area that flux occurs	dimensionless		500%	500%
Interior Height of building	m	R_h		2.44
Exchange rate of air	exchanges/hr	E	0.5	0.5
Slab Attenuation factor	dimensionless	S_b	0.01	0.01
OUTDOOR AIR COMPONENT				
Downwind contamination length	m	L		0
Wind speed	m/hr	u		16000
Height of building openings	m	h		2
EXPOSURE SCENARIO Default values are for Industrial Uses				
Body weight	kg	BW	15	15
Inhalation rate	m3/day	IR	10	10
Exposure duration	yrs	ED	30	30
Hours per day	hr/day		24	24
Days per week	days/week		7	7
Weeks per year	weeks/yr		52	52
HEALTH RISK FACTORS				
Reference dose	mg/kg-day	RfD		0.0086
Slope factor (potency)	1/(mg/kg-day)	SF		0.1