



**PRELIMINARY
SITE INVESTIGATION REPORT**

**Salmon Creek Bridge Replacement Project
State Route 1, Post Mile 42.4 to 43.3
Mendocino County, California**

PREPARED FOR:

**CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 1
ENVIRONMENTAL ENGINEERING OFFICE
1656 UNION STREET
EUREKA, CALIFORNIA 95501**



PREPARED BY:

**GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DRIVE, SUITE 800
RANCHO CORDOVA, CALIFORNIA 95742**



**GEOCON PROJECT NO. S9805-01-35
TASK ORDER NO. 35, EA 01-401400**

JANUARY 2015



Project No. S9805-01-35
January 12, 2015

Steve Werner, PG, Task Order Manager
California Department of Transportation – District 1
Environmental Engineering Office
1656 Union Street
Eureka, California 95501

Subject: PRELIMINARY SITE INVESTIGATION REPORT
SALMON CREEK BRIDGE (BR. NO. 10-0134) REPLACEMENT PROJECT
STATE ROUTE 1, POST MILE 42.4 TO 43.3
MENDOCINO COUNTY, CALIFORNIA
CONTRACT NO. 03A2132, TASK ORDER NO. 35, EA 01-401400

Dear Mr. Werner:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A2132, Task Order No. 35, and Expense Authorization 01-401400, we have performed a Preliminary Site Investigation (PSI) of potential shallow soil impacts resulting from historical bridge paint sandblasting operations at the Salmon Creek Bridge (Br. No. 10-0134). The Salmon Creek Bridge Replacement Project is located along State Highway 1 from approximate Post Mile 42.4 to 43.3 near the community of Albion in Mendocino County, California. The accompanying PSI report summarizes the services performed including the excavation of 28 hand-auger borings for the collection of shallow soil samples for field X-ray fluorescence (XRF) screening and heavy metals (notably lead) analysis, and the advancement of two Hydropunch borings for the collection of grab groundwater samples and the collection of water sample from a culvert for lead analysis.

The contents of this report reflect the views of the author, who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

Please contact us if you have any questions concerning the contents of this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

John E. Juhrend, PE, CEG
Project Manager



Gemma G. Reblando
Project Geologist

(2 + 2 CD) Addressee

TABLE OF CONTENTS

PRELIMINARY SITE INVESTIGATION REPORT	PAGE
1.0 INTRODUCTION	1
1.1 Project Description and Proposed Improvements	1
1.2 General Objectives	1
1.3 Hazardous Waste Determination Criteria	1
1.4 Risk-based Screening Criteria.....	2
1.4.1 California Human Health Screening Levels	2
1.4.2 Environmental Screening Levels	3
1.4.3 Maximum Contaminant Levels (MCL)	3
2.0 SCOPE OF SERVICES	3
2.1 Pre-field Activities	4
2.2 Field Activities	4
3.0 INVESTIGATIVE METHODS	4
3.1 Soil Sampling Procedures	4
3.2 Water Sampling Procedures.....	4
3.2.1 Groundwater Sampling	4
3.2.2 Water Sampling from a Culvert	5
3.3 XRF Procedures	5
3.4 Quality Assurance/Quality Control (QA/QC) Procedures	5
3.5 Laboratory Analyses	5
4.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS.....	6
4.1 Soil and Groundwater Conditions	6
4.2 Soil Analytical Results - Lead.....	6
4.3 Soil Analytical Results – Title 22 Metals	7
4.4 Water Analytical Results – Lead.....	8
4.4.1 Groundwater Samples	8
4.4.2 Culvert Water Sample	8
4.5 Laboratory QA/QC	9
4.6 Statistical Evaluation for Lead Detected in Soil Samples.....	9
4.6.1 Calculating the UCLs for the True Mean.....	9
5.0 CONCLUSIONS AND RECOMMENDATIONS.....	10
5.1 Sandblast Waste Impacts	10
5.2 General Recommendations	10
5.3 Worker Protection	11
6.0 REPORT LIMITATIONS.....	12

FIGURES

1. Vicinity Map
2. Site Plan
- 3-1. Lead Concentration and Contour Map – 0-Foot Sample Depth
- 3-2. Lead Concentration and Contour Map – 1-Foot Sample Depth
- 3-3. Lead Concentration and Contour Map – 2-Foot Sample Depth

TABLE OF CONTENTS (continued)

SITE PHOTOGRAPHS (1 through 5)

TABLES

1. Summary of Soil Analytical Results – Lead
2. Summary of Soil Analytical Results – Title 22 Metals
3. Summary of Water Sample Analytical Results – Lead

APPENDICES

- A. Laboratory Reports and Chain-of-custody Documentation
- B. Lead Statistics Results

PRELIMINARY SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Preliminary Site Investigation Report for the Salmon Creek Bridge (Br. No. 10-0134) Replacement Project located along State Route 1, Post Mile (PM) 42.3 to 43.3 was prepared under California Department of Transportation (Caltrans) Contract No. 03A2132, Task Order (TO) No. 35, and Expense Authorization (EA) 01-401400.

1.1 Project Description and Proposed Improvements

The project area consists of Caltrans right-of-way (ROW) beneath the Salmon Creek Bridge (the Bridge Site) near the community of Albion, Mendocino County, California. The Bridge Site location is depicted on the attached Vicinity Map, Figure 1, and Site Plan, Figure 2.

The existing bridge structure was constructed in 1950 and consists of a seven-span steel deck Warren truss with steel beam spans over tower bents and a cast-in-place reinforced concrete deck. Caltrans proposes to replace the bridge structure due to structural deficiencies and to improve the highway approach alignments.

1.2 General Objectives

The purpose of the scope of services outlined in TO No. 35 was to evaluate the Bridge Site for potential heavy metal (notably lead) subsurface impacts associated with historical bridge paint sandblasting operations. Review of Caltrans bridge maintenance records indicates that “Red Lead” and “Zinc Rich” paint was utilized in the 1950s and 1960s. Sandblasting of these paints would have likely occurred prior to regulatory requirements for containment and proper disposal of sandblast waste generated during bridge painting preparation operations.

The PSI investigative results will be used by Caltrans for project design and to inform the construction contractor if sandblast waste-impacted soil or lead-impacted groundwater is present within the Bridge Site boundaries for construction worker health and safety, and soil management and disposal purposes.

1.3 Hazardous Waste Determination Criteria

Regulatory criteria to classify a waste as “California hazardous” for handling and disposal purposes are contained in the California Code of Regulations (CCR), Title 22, Division 4.5, Chapter 11, Article 3, § 66261.24. Criteria to classify a waste as “Resource, Conservation, and Recovery Act (RCRA) hazardous” are contained in Chapter 40 of the Code of Federal Regulations (40 CFR), § 261.

For waste containing metals, the waste is classified as California hazardous when: 1) the representative total metal content equals or exceeds the respective Total Threshold Limit Concentration (TTLC); or 2)

the representative soluble metal content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC) based on the standard Waste Extraction Test (WET). A waste may have the potential of exceeding the STLC when the waste's total metal content is greater than or equal to ten times the respective STLC value, since the WET uses a 1:10 dilution ratio. Hence, when a total metal is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the total metals are soluble, soluble metal analysis is required. A material is classified as RCRA hazardous, or Federal hazardous, when the representative soluble metal content equals or exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure (TCLP).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability and corrosivity; however, for the purposes of this investigation, toxicity (i.e., representative lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or corrosivity. Waste that is classified as either California-hazardous or RCRA-hazardous requires management as a hazardous waste.

The Department of Toxic Substances Control (DTSC) regulates and interprets hazardous waste laws in California. DTSC generally considers excavated or transported materials that exhibit "hazardous waste" characteristics to be a 'waste' requiring proper management, treatment and disposal. Soil that contains metals above hazardous waste thresholds and is left in-place would not be necessarily classified by DTSC as a 'waste.' The DTSC has provided site-specific determinations that "movement of wastes within an area of contamination does not constitute 'land disposal' and, thus, does not trigger hazardous waste disposal requirements." DTSC should be consulted to confirm waste classification. It is noted that in addition to DTSC regulations, health and safety requirements and other local agency requirements may also apply to the handling and disposal of metals-impacted soil.

1.4 Risk-based Screening Criteria

1.4.1 California Human Health Screening Levels

The California Environmental Protection Agency (Cal/EPA) has prepared technical reports entitled *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* (Cal/EPA, January 2005) and *Revised California Human Health Screening Levels for Beryllium* (Cal/EPA, March 2009) and *Lead* (Cal/EPA, September 2009), which present CHHSLs for soil, shallow soil gas, and indoor air to assist in evaluating sites impacted by releases of hazardous chemicals.

The CHHSLs are concentrations of 54 hazardous chemicals including Title 22 metals that Cal/EPA considers to be below thresholds of concern for risks to human health. The CHHSLs were developed by the Office of Environmental Health Hazard Assessment (OEHHA) on behalf of Cal/EPA. The thresholds of concern used to develop the CHHSLs are an excess lifetime cancer risk of one in a million and a hazard quotient or 1.0 for noncancer effects. Under most circumstances, the presence of a chemical at

concentrations below its respective CHHSL can be assumed to not pose a significant risk. The presence of a chemical at concentrations above a CHHSL does not indicate that adverse impacts to human health are occurring or will occur but suggests that further evaluation is warranted (Cal/EPA, January 2005).

The CHHSLs for residential and commercial/industrial land are listed on soil analytical data summary Table 2.

1.4.2 Environmental Screening Levels

The San Francisco Bay Regional Water Quality Control Board (SFRWQCB) has prepared a technical report titled *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater, Interim Final* (May 2008), which presents Environmental Screening Levels (ESL) for soil, groundwater, soil gas, and surface water, to assist in evaluating sites impacted by releases of hazardous chemicals. The ESLs are conservative values for more than 100 commonly detected contaminants, which may be used to compare with environmental data collected at a site. ESLs are strictly risk assessment tools and “not regulatory cleanup standards.” The presence of a chemical at concentrations in excess of an ESL does not necessarily indicate that adverse impacts to human health or the environment are occurring; this simply indicates that a potential for adverse risk may exist and that additional evaluation is or “may be” warranted (SFRWQCB, 2008).

The ESL obtained from *ESL Table F-1a – Groundwater Screening Levels – Groundwater is a Current or Potential Drinking Water Source* is listed on Table 3.

1.4.3 Maximum Contaminant Levels (MCL)

MCLs are California regulatory thresholds used to interpret water quality objectives prohibiting toxicity to humans in water designated as a source of drinking water. MCLs are derived from health-based criteria including one-in-one-million (1×10^{-6}) excess cancer risk for carcinogens and threshold toxicity levels for non-carcinogens. California MCLs are drinking water standards adopted by the California State Water Resources Control Board for both municipal and domestic supplies. California MCLs are required to be at least as stringent as the Federal MCLs that are adopted under the Federal Safe Drinking Water Act. The California MCL for lead is listed on Table 3.

2.0 SCOPE OF SERVICES

The scope of services requested by Caltrans in TO No. 35 included the collection of soil samples for X-ray fluorescence (XRF) field screening and laboratory analysis to determine heavy metals content, the collection of grab groundwater samples and a water sample from a culvert for lead analysis, and the preparation of this report.

2.1 Pre-field Activities

- Performed a brief site visit on September 4, 2014, to outline the project limits with white paint for subsequent utility clearance.
- Prepared a *Health and Safety Plan* dated September 2014 to provide guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.
- Provided 48-hour notification to Underground Service Alert (USA) prior to job site mobilization (USA Ticket No. 370960).
- Retained the services of Advanced Technologies Laboratories (ATL), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of soil samples.

2.2 Field Activities

On September 29 and 30, 2014, we collected shallow soil samples from hand-auger borings located beneath the Bridge Site. On December 23, 2014, additional soil samples were collected in the northern bridge embankment using a direct-push rig. We also collected grab groundwater samples from two hydropunch borings and a water sample from a culvert located at the northern bridge abutment. Details of the field activities are presented in the following section. Photographs of the Bridge Site are attached.

3.0 INVESTIGATIVE METHODS

3.1 Soil Sampling Procedures

A total of 77 soil samples were collected from borings SC1 through SC28 advanced beneath the Bridge Site within the Caltrans ROW. The boring locations were selected and flagged in the field by Caltrans' TO Manager along accessible transects. The approximate boring locations are depicted on Figure 2.

The soil borings were advanced to a maximum sampling depth of 2.5 feet. Soil samples were collected from depth intervals of 0.0 to 0.5 foot, 1.0 to 1.5 feet and 2.0 to 2.5 feet. The soil samples were transferred to Ziploc® re-sealable plastic bags for field homogenization, screened through a #10 sieve (2.0 millimeter), and subjected to field screening for metals content using a portable XRF spectrometer. We did not perform XRF screening for soil samples collected from borings SC24 through SC28. Following XRF screening, the labeled sample bags were placed in a cooler and transported to ATL for chemical analyses under chain-of-custody (COC) procedures.

3.2 Water Sampling Procedures

3.2.1 Groundwater Sampling

Grab groundwater samples were obtained from direct-push borings SCHP1 and SCHP2 advanced to approximate depths of 12 and 8 feet, respectively. Grab groundwater samples were collected from the

borings using a hydropunch, and new polyethylene plastic tubing tipped with a check valve. The unfiltered groundwater samples were placed in unpreserved laboratory-provided plastic containers for lead analysis under COC procedures.

3.2.2 Water Sampling from a Culvert

According to Caltrans, water from a culvert outfall is collected for domestic water use for two residential structures in the Salmon Creek valley on Assessor's Parcel Number 123-340-01 (Parducci). We collected one water sample (sample "CO") from the culvert outfall and placed it in a laboratory-provided container for lead analysis under COC procedures.

The groundwater samples and culvert water sample were placed in a cooler and transported to ATL for chemical analyses under COC procedures. The approximate groundwater and culvert water sampling locations are depicted on Figure 2.

3.3 XRF Procedures

We utilized an Innov-X portable XRF spectrometer for rapid field screening of the shallow soil samples collected on September 29 and 30, 2014, for heavy metals (notably lead) content. Upon startup, the XRF completes a standardization procedure to confirm factory calibration. Initial XRF readings were obtained by placing the XRF directly on the ground surface and within the soil sample bags. Subsequent XRF readings were limited to direct placement on homogenized/screened soil samples based on the initial data and manufacturer XRF guidelines for soil analysis.

3.4 Quality Assurance/Quality Control (QA/QC) Procedures

QA/QC procedures were performed during the field exploration activities. These procedures included the decontamination of sampling equipment before each sample was collected and providing COC documentation for each soil sample submitted to the laboratory. The soil sampling equipment was cleansed between borings by washing the equipment with an Alconox[®] solution followed by a double rinse with deionized water.

3.5 Laboratory Analyses

The soil and water samples collected within the project boundaries were submitted to ATL for the following analyses under five-day and ten-day turnaround time. The laboratory was instructed to homogenize the soil samples prior to analysis in accordance with Contract 03A2132 requirements.

- Each soil sample was analyzed for total lead following Environmental Protection Agency (EPA) Test Method 6010B.
- Twenty-one soil samples were further analyzed for WET soluble lead following EPA Test Method 6010B.

- Five soil samples were further analyzed for TCLP soluble lead following EPA Test Method 6010B.
- Five soil samples (including one “background” soil sample) were further analyzed for Title 22 metals following EPA Test Methods 6010B and 7471A (mercury).
- Per Caltrans request, nine randomly selected soil samples were further analyzed for Synthetic Precipitation Leaching Procedure (SPLP) soluble lead following EPA Test Method 6010B.
- Three water samples were analyzed for total lead following EPA Test Method 6010B.

QA/QC procedures were performed by ATL as applicable for the method of analysis with specificity for each analyte listed in the test method's QA/QC. QA/QC measures for the lead analysis included the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix, whichever was more frequent, with the spike made at ten times the detection limit or at the analyte level.

Prior to submitting the samples to the laboratory, the COC documentation was reviewed for accuracy and completeness.

4.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

4.1 Soil and Groundwater Conditions

Native soil conditions encountered during the excavation of borings generally consisted of brown, silty to clayey fine to medium sand with some gravel over moderately weathered sedimentary bedrock to the maximum sampling depth of approximately 2.5 feet. Sandblast waste consisting of light brown/gray fine sand with trace red and green paint fragments was observed in numerous surface samples primarily east of the bridge alignment in the direction of prevailing winds. Deeper accumulations of sandblast waste to depths of at least 8 to 12 inches were noted beneath the northern bridge abutment. Access limitation precluded the collection of soil samples on the flood plain and lower slope areas on the north side of Salmon Creek.

Depth to groundwater was measured at 2.9 and 1.3 feet in direct-push borings SCHP1 and SCHP2, respectively.

4.2 Soil Analytical Results – Lead

Total lead was reported for the 77 soil samples with concentrations ranging from 2.6 to 1,300 milligrams per kilogram (mg/kg). Only soil sample SC20-0 (1,300 mg/kg) had a reported total lead concentration

greater than the TTLC for lead of 1,000 mg/kg. Forty-five of the remaining 76 soil samples had reported total lead concentrations greater than 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l).

The lead levels decreased with sample depth with the highest total lead XRF readings (generally 100 to 500 ppm) in the surface and 1-foot sample depths and lower total lead XRF readings (generally less than 50 ppm) at the 2-foot sample depth. Low lead levels (less than 100 ppm) were also recorded for soil samples obtained from some of the borings located directly beneath the south end of the bridge and along the western ROW boundary. Low lead levels in soil under the bridge structure at the south end, however, may be due to disturbance of the area by bridge maintenance activities.

The surface soil samples with reported total lead concentrations equal to or greater than 50 mg/kg (21 samples) were further analyzed for WET soluble lead. Each of the 21 samples had reported WET soluble lead with concentrations ranging from 2.4 to 52 milligrams per liter (mg/l). Seventeen of the 21 soil samples had WET soluble lead concentrations greater than the STLC value for lead of 5.0 mg/l.

The soil sample with the highest reported total lead concentration and four soil samples with the highest reported WET soluble lead concentrations were also analyzed for TCLP soluble lead. TCLP soluble lead was detected in all five soil samples analyzed at concentrations ranging between 0.41 and 1.2 mg/l, less than the Federal RCRA hazardous waste threshold for lead of 5.0 mg/l.

SPLP soluble lead was reported for the nine soil samples analyzed at concentrations ranging from 0.0089 to 0.34 mg/l. Seven of the nine samples analyzed had reported SPLP concentrations greater than the California Department of Public Health regulatory action level for lead of 0.015 mg/l.

The laboratory noted that four of the nine samples had SPLP detections below the Practical Quantitation Limit but above or equal to the Method Detection Limit and were J-flagged with “Results are estimated concentrations.”

The soil analytical results are summarized on Table 1. The total lead analytical data and estimated total lead contours for each sample depth are depicted on Figures 3-1 through 3-3. Copies of the ATL laboratory reports and COC documentation are in Appendix A.

4.3 Soil Analytical Results – Title 22 Metals

Four soil samples with elevated total concentrations ranging between 280 and 1,300 mg/kg were further analyzed for Title 22 metals. We also obtained a “background” soil sample (BKGD) from a coastal area north of the Bridge Site for analysis of Title 22 metals. Ten metals were reported in the four soil samples at the following concentrations with the BKGD concentrations presented for comparison:

Analyte	Concentration Range (mg/kg)	Background Sample Concentration (mg/kg)
Arsenic	1.7 to 3.6	3.6
Barium	27 to 140	77
Chromium	8.9 to 38	24
Cobalt	3.1 to 9.5	7.6
Copper	18 to 24	13
Lead	220 to 1300	7.3
Nickel	9.2 to 20	18
Vanadium	9.1 to 54	37
Zinc	210 to 520	44
Mercury	<0.10 to 0.16	<0.10

With the exception of lead (see Section 4.2) and zinc, the remaining reported Title 22 metals are within the range of naturally occurring background concentrations.

The reported zinc concentrations are significantly lower than the California hazardous waste screening threshold of 2,500 mg/kg and significantly lower than the respective residential and industrial CHHSLs for zinc of 23,000 and 100,000 mg/kg.

A summary of the soil Title 22 metals analytical results are presented on Table 2. Copies of the ATL laboratory reports and COC documentation are in Appendix A.

4.4 Water Analytical Results – Lead

4.4.1 Groundwater Samples

Two grab groundwater samples collected at the Bridge Site were analyzed for total lead. Lead was detected at concentrations of 0.13 and 0.52 milligrams per liter (mg/l) for groundwater samples SCHP1 and SCHP2, respectively. The reported lead concentrations are greater than the lead ESL and the California MCL.

4.4.2 Culvert Water Sample

Water sample “CO” collected from a culvert outfall was not reported to contain lead at a concentration greater than the laboratory reporting limit of 0.005 mg/l.

A summary of water sample analytical results is on Table 3. Copies of the ATL laboratory reports and COC documentation are in Appendix A.

4.5 Laboratory QA/QC

We reviewed the QA/QC provided with the ATL laboratory reports. Based on the laboratory QA/QC data, no additional qualification of the data presented herein is necessary, and the data are of sufficient quality for the purposes of this report.

4.6 Statistical Evaluation for Lead Detected in Soil Samples

Statistical methods were applied to the total lead analytical data to evaluate the UCLs of the arithmetic means of the total lead concentrations for each sampling depth. The total lead data were evaluated as one sample population for statistical analysis.

4.6.1 Calculating the UCLs for the True Mean

Non-parametric bootstrap techniques were used to calculate the UCLs. The upper one-sided 90% and 95% UCLs of the arithmetic mean are defined as the values that, when calculated repeatedly for randomly drawn subsets of site data, equal or exceed the true mean 90% and 95% of the time, respectively. Statistical confidence limits are the classical tool for addressing uncertainties of a distribution mean. The UCLs of the arithmetic mean concentration are used as mean concentrations because it is not possible to know the true mean due to the essentially infinite number of soil samples that could be collected from a site. The UCLs therefore account for uncertainties due to limited sampling data. As data become less limited at a site, uncertainties decrease, and the UCLs move closer to the true mean.

The bootstrap results are in Appendix B. The calculated UCLs and statistical results for the lead data are summarized in the table below:

SAMPLE INTERVAL (feet)	90% TOTAL LEAD UCL (mg/kg)	95% TOTAL LEAD UCL (mg/kg)	TOTAL LEAD MEAN (mg/kg)	MINIMUM VALUE (mg/kg)	MAXIMUM VALUE (mg/kg)
0.0 to 0.5	370.4	389.5	304.6	2.6	1,300
1.0 to 1.5	161.9	171.7	127.9	4.3	730
2.0 to 2.5	30.9	31.9	26.7	6.7	69

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Sandblast Waste Impacts

The results of this PSI has confirmed the presence of lead-impacted sandblast waste beneath the Bridge Site. Reported elevated lead concentrations in the sandblast waste-impacted soil (upper 2 feet of soil) exceed California hazardous waste thresholds and residential/industrial human health exposure thresholds (CHHSLs). Reported elevated zinc concentrations in soil do not exceed hazardous waste or CHHSL risk-based screening levels, and therefore zinc is not a potential contaminant of concern. The remaining detected Title 22 metals in shallow soil were generally reported at concentrations consistent with naturally occurring background levels.

The lateral extent of lead-impacted sandblast waste/shallow soil has generally been defined along the westerly ROW boundary beneath the bridge and south of Salmon Creek as evidenced by relatively low lead levels reported in soil samples obtained from perimeter borings SC4, SC11, SC19, SC24, and SC28. The lateral extent of sandblast waste in the remaining areas beneath the Bridge Site are undefined and likely extend beyond the ROW boundaries including the vicinity of an adjacent residential structure to the east.

SPLP soluble lead analysis was performed for nine selected soil samples to determine the leaching potential of lead in soil under natural conditions (precipitation). Based on the SPLP soluble lead results, water in contact with surface soil (sandblast waste) at the Site could result in soluble lead concentrations greater than the California Department of Public Health regulatory action level of 0.015 mg/l.

Due to the SPLP finding that soluble lead concentrations greater than the California Department of Public Health regulatory action level of 0.015 mg/l could be present in shallow groundwater, grab groundwater samples and a water sample from a culvert outfall were collected and analyzed for lead. According to Caltrans, water from the culvert outfall is collected for domestic water use. Lead was detected in the two grab groundwater samples collected within the Bridge Site ROW boundaries at concentrations greater than their respective ESL and the California MCL. Lead was not detected in the water sample from a culvert outfall at a concentration greater than the laboratory reporting limit of 0.005 mg/l.

5.2 General Recommendations

Additional site assessment would be necessary to fully define the lateral and vertical extent of lead-impacted sandblast waste beyond the Bridge Site ROW boundaries.

The lead 95% UCL of 389.5 mg/kg for the upper 1 foot of soil containing sandblast waste is higher than the industrial CHHSL risk-based screening level of 320 mg/kg and substantially higher than the residential CHHSL risk-based screening level of 80 mg/kg. A human risk assessment would be necessary

to determine if the lead levels and site-specific exposure criteria exceed regulatory-acceptable risk thresholds.

Any excess soil generated from construction excavations should be evaluated for lead content and appropriate offsite disposal or facility acceptance.

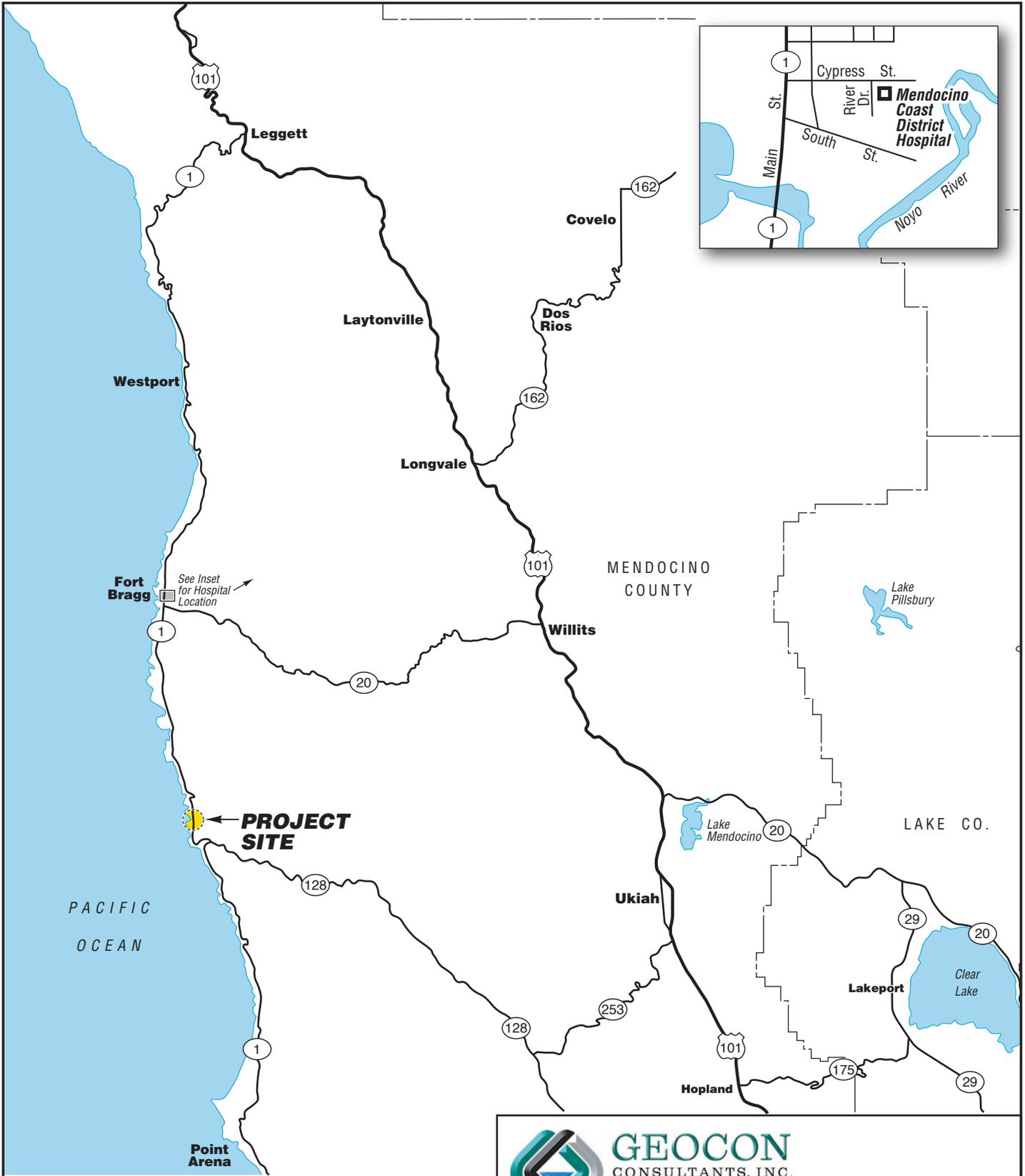
5.3 Worker Protection

Per Caltrans' requirements, the contractor(s) should prepare a project-specific Lead Compliance Plan (CCR Title 8, § 1532.1, the "Lead in Construction" standard) to minimize worker exposure to lead-impacted soil and sandblast waste. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other health and safety protocols and procedures for the handling of lead-containing soil/sandblast waste.

6.0 REPORT LIMITATIONS

This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. We strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.




GEOCON
CONSULTANTS, INC.
3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

Salmon Creek Bridge	
State Route 1 Mendocino County, California	
VICINITY MAP	
GEOCON Proj. No. S9805-01-35	
Task Order No. 35	January 2015
	Figure 1

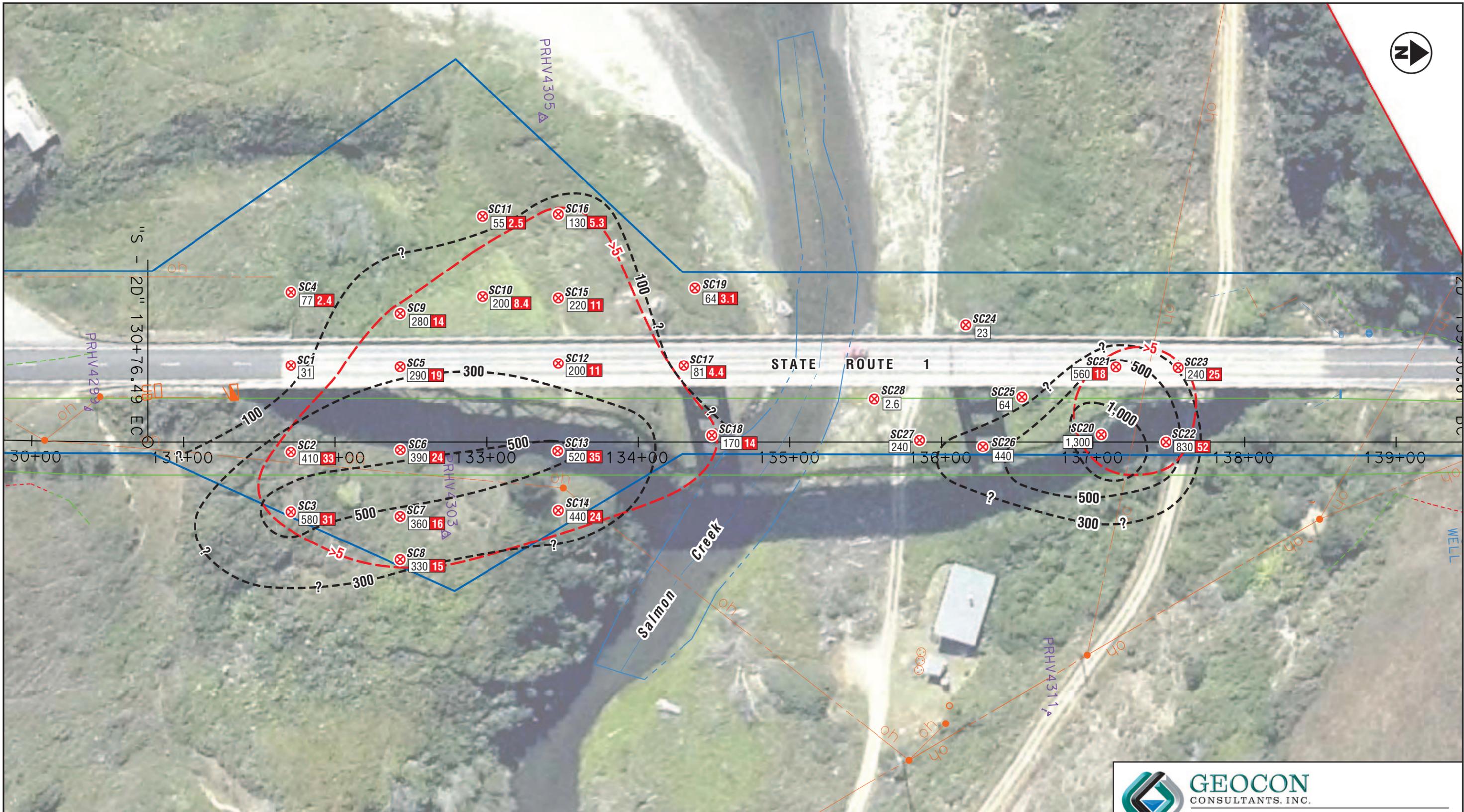


- LEGEND:
- SC1 ⊗ Approximate Boring Location
 - SCHP1 ⊕ Approximate Hydropunch Boring Location
 - CO ⊙ Approximate Culvert Outfall Water Sample Location



GEOCON
CONSULTANTS, INC.
3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

Salmon Creek Bridge		
State Route 1 Mendocino County, California		SITE PLAN
GEOCON Proj. No. S9805-01-35		
Task Order No. 35	January 2015	Figure 2



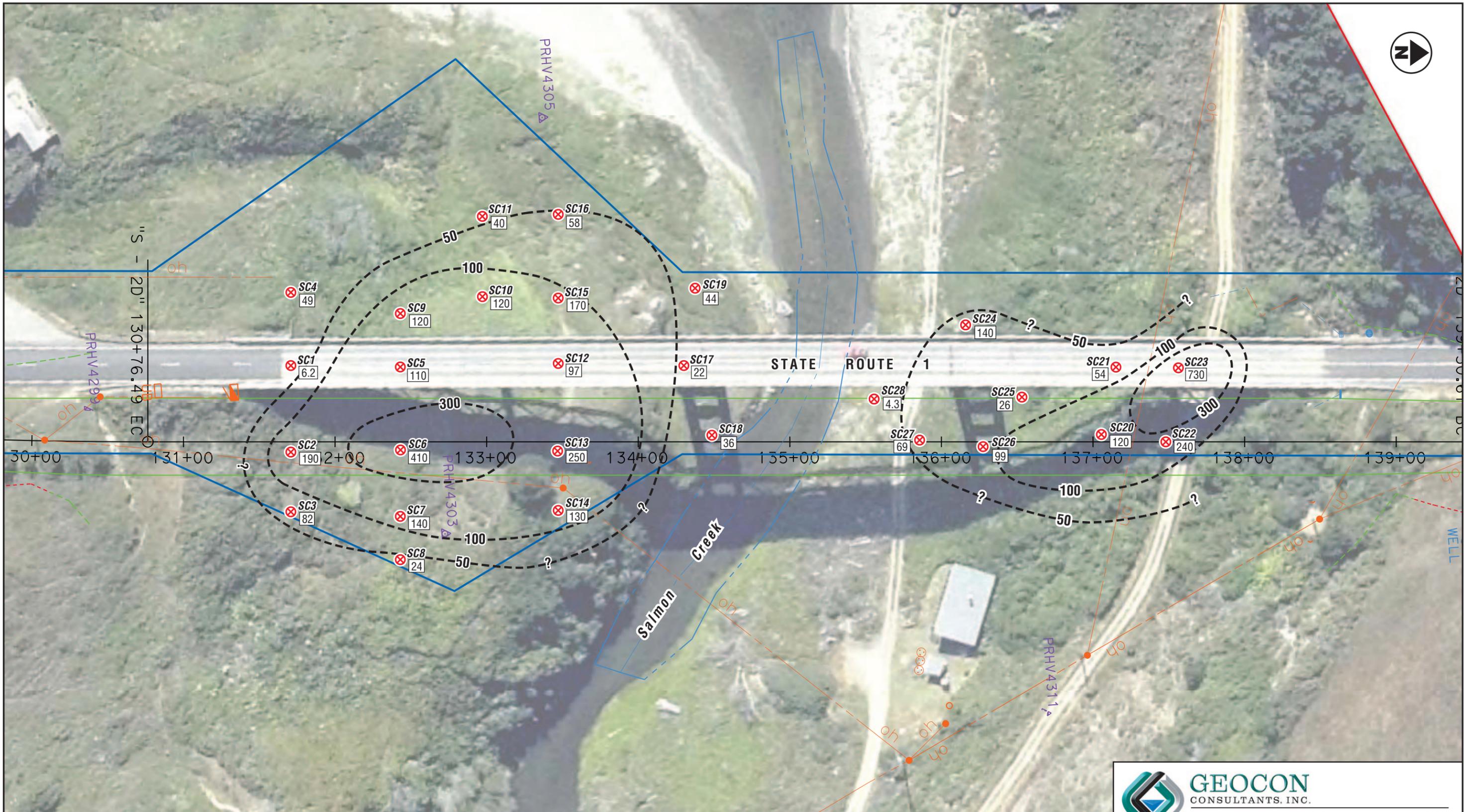
LEGEND:

- SC1 ⊗ Approximate Boring Location
- 580 Lead Concentration in Milligrams per Kilogram
- 31 WET Soluble Lead Concentration in Milligrams per Liter
- 100 - - - - Lead Isoconcentration Contour
- >5 - - - - WET Soluble Lead Isoconcentration Contour
- WET Waste Extraction Test



GEOCON
CONSULTANTS, INC.
3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

Salmon Creek Bridge		
State Route 1 Mendocino County, California		Lead Concentration and Contour Map - 0-Foot Sample Depth
GEOCON Proj. No. S9805-01-35		
Task Order No. 35	January 2015	Figure 3-1

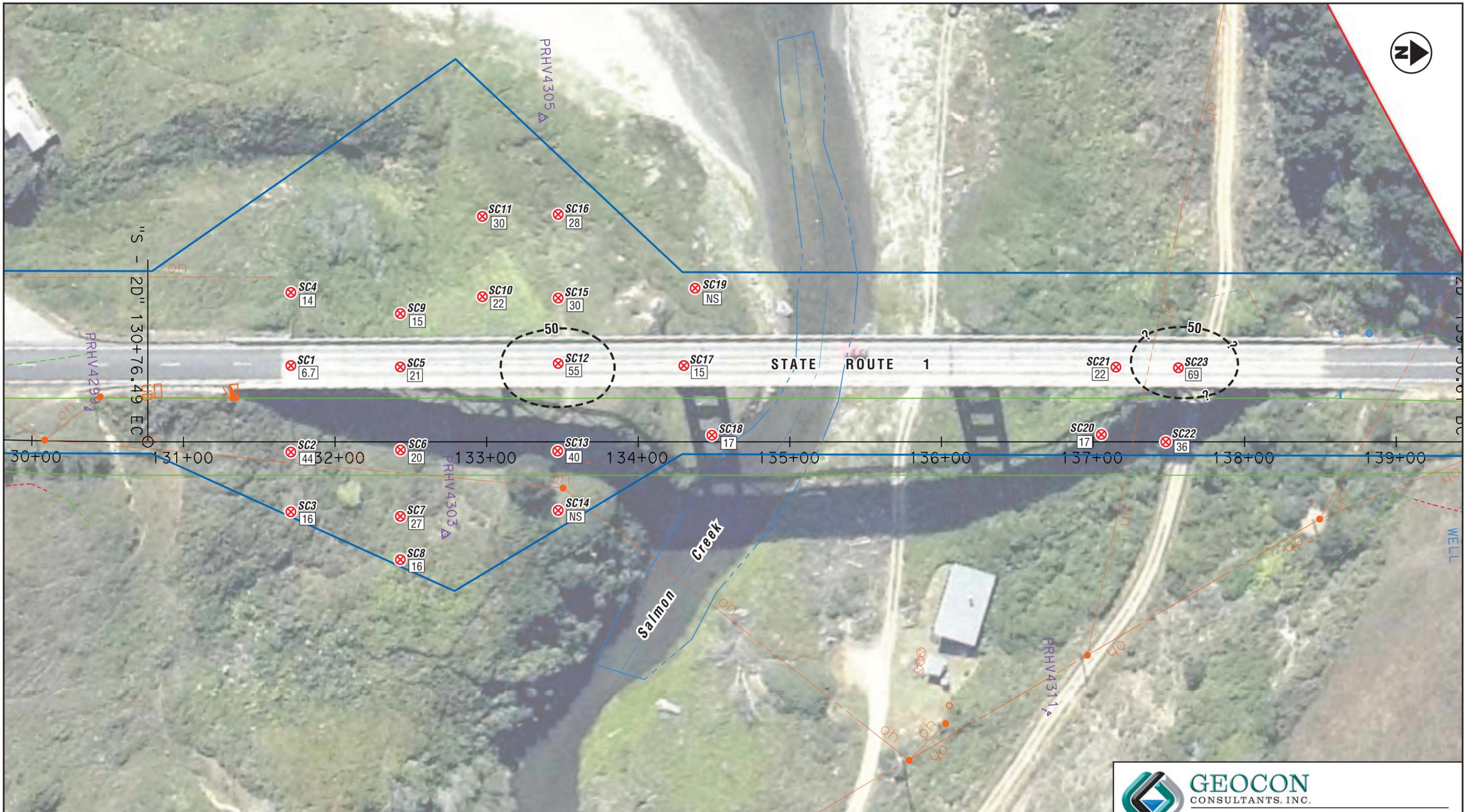


LEGEND:

- SC1 ⊗ Approximate Boring Location
- [24] Total Lead Concentration in Milligrams per Kilogram
- 100 - - - - - Lead Isoconcentration Contour



 <p>3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742 PHONE 916.852.9118 - FAX 916.852.9132</p>		
<p>Salmon Creek Bridge</p>		
<p>State Route 1 Mendocino County, California</p>		<p>Lead Concentration and Contour Map - 1-Foot Sample Depth</p>
<p>GEOCON Proj. No. S9805-01-35</p>		
<p>Task Order No. 35</p>	<p>January 2015</p>	<p>Figure 3-2</p>



- LEGEND: **SC1** ⊗ Approximate Boring Location
 [44] Total Lead Concentration in Milligrams per Kilogram
 50 - - - - - Lead Isoconcentration Contour
 [NS] No Sample Collected



GEOCON
 CONSULTANTS, INC.
 3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
 PHONE 916.852.9118 - FAX 916.852.9132

Salmon Creek Bridge		
State Route 1 Mendocino County, California		Lead Concentration and Contour Map - 2-Foot Sample Depth
GEOCON Proj. No. S9805-01-35		
Task Order No. 35	January 2015	Figure 3-3



Photo No. 1 Salmon Creek Bridge



Photo No. 2 Northern Area Beneath Bridge

PHOTOS NO. 1 & 2



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

Salmon Creek Bridge

GEOCON Proj. No. S9805-01-35

State Route 1
Mendocino County, California

Task Order No. 35

January 2015



Photo No. 3 Southern Area Beneath Bridge



Photo No. 4 Portable XRF Surface Reading

PHOTOS NO. 3 & 4



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

Salmon Creek Bridge

GEOCON Proj. No. S9805-01-35

State Route 1
Mendocino County, California

Task Order No. 35

January 2015



Photo No. 5 Typical Sandblast Waste

PHOTO NO. 5



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

Salmon Creek Bridge

GEOCON Proj. No. S9805-01-35

State Route 1
Mendocino County, California

Task Order No. 35

January 2015

TABLE 1
 SUMMARY OF SOIL ANALYTICAL RESULTS - LEAD
 SALMON CREEK BRIDGE REPLACEMENT PROJECT
 MENDOCINO COUNTY, CALIFORNIA

Sample ID	Sample Interval (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	TCLP Lead (mg/l)	SPLP Lead (mg/l)
SC1-0	0.0-0.5	31	---	---	---
SC1-1	1.0-1.5	6.2	---	---	---
SC1-2	2.0-2.5	6.7	---	---	---
SC2-0	0.0-0.5	410	33	1.2	---
SC2-1	1.0-1.5	190	---	---	---
SC2-2	2.0-2.5	44	---	---	---
SC3-0	0.0-0.5	580	31	0.46	0.14
SC3-1	1.0-1.5	82	---	---	---
SC3-2	2.0-2.5	16	---	---	---
SC4-0	0.0-0.5	77	2.4	---	---
SC4-1	1.0-1.5	49	---	---	---
SC4-2	2.0-2.5	14	---	---	0.0089 ^J
SC5-0	0.0-0.5	290	19	---	---
SC5-1	1.0-1.5	110	---	---	---
SC5-2	2.0-2.5	21	---	---	---
SC6-0	0.0-0.5	390	24	---	---
SC6-1	1.0-1.5	410	---	---	0.15
SC6-2	2.0-2.5	20	---	---	---
SC7-0	0.0-0.5	360	16	---	---
SC7-1	1.0-1.5	140	---	---	---
SC7-2	2.0-2.5	27	---	---	---
SC8-0	0.0-0.5	330	15	---	---
SC8-1	1.0-1.5	24	---	---	---
SC8-2	2.0-2.5	16	---	---	---
SC9-0	0.0-0.5	280	14	---	0.10
SC9-1	1.0-1.5	120	---	---	---
SC9-2	2.0-2.5	15	---	---	---
SC10-0	0.0-0.5	200	8.4	---	---
SC10-1	1.0-1.5	120	---	---	---
SC10-2	2.0-2.5	22	---	---	---
SC11-0	0.0-0.5	55	2.5	---	---
SC11-1	1.0-1.5	40	---	---	---
SC11-2	2.0-2.5	30	---	---	---
SC12-0	0.0-0.5	200	11	---	---
SC12-1	1.0-1.5	97	---	---	---
SC12-2	2.0-2.5	55	---	---	0.021 ^J

TABLE 1
 SUMMARY OF SOIL ANALYTICAL RESULTS - LEAD
 SALMON CREEK BRIDGE REPLACEMENT PROJECT
 MENDOCINO COUNTY, CALIFORNIA

Sample ID	Sample Interval (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	TCLP Lead (mg/l)	SPLP Lead (mg/l)
SC13-0	0.0-0.5	520	35	0.41	---
SC13-1	1.0-1.5	250	---	---	---
SC13-2	2.0-2.5	40	---	---	---
SC14-0	0.0-0.5	440	24	---	---
SC14-1	1.0-1.5	130	---	---	0.033 ^J
SC15-0	0.0-0.5	220	11	---	---
SC15-1	1.0-1.5	170	---	---	---
SC15-2	2.0-2.5	30	---	---	---
SC16-0	0.0-0.5	130	5.3	---	---
SC16-1	1.0-1.5	58	---	---	---
SC16-2	2.0-2.5	28	---	---	---
SC17-0	0.0-0.5	81	4.4	---	---
SC17-1	1.0-1.5	22	---	---	---
SC17-2	2.0-2.5	15	---	---	---
SC18-0	0.0-0.5	170	14	---	---
SC18-1	1.0-1.5	36	---	---	---
SC18-2	2.0-2.5	17	---	---	---
SC19-0	0.0-0.5	64	3.1	---	---
SC19-1	1.0-1.5	44	---	---	---
SC20-0	0.0-0.5	1,300	---	0.42	0.16
SC20-1	1.0-1.5	120	---	---	---
SC20-2	2.0-2.5	17	---	---	---
SC21-0	0.0-0.5	560	18	---	---
SC21-1	1.0-1.5	54	---	---	---
SC21-2	2.0-2.5	22	---	---	0.0098 ^J
SC22-0	0.0-0.5	830	52	0.49	---
SC22-1	1.0-1.5	240	---	---	---
SC22-2	2.0-2.5	36	---	---	---
SC23-0	0.0-0.5	240	25	---	---
SC23-1	1.0-1.5	730	---	---	0.34
SC23-2	2.0-2.5	69	---	---	---
SC24-0	0.0-0.5	23	---	---	---
SC24-1	1.0-1.5	140	---	---	---
SC25-0	0.0-0.5	64	---	---	---
SC25-1	1.0-1.5	26	---	---	---

TABLE 1
 SUMMARY OF SOIL ANALYTICAL RESULTS - LEAD
 SALMON CREEK BRIDGE REPLACEMENT PROJECT
 MENDOCINO COUNTY, CALIFORNIA

Sample ID	Sample Interval (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	TCLP Lead (mg/l)	SPLP Lead (mg/l)
SC26-0	0.0-0.5	440	---	---	---
SC26-1	1.0-1.5	99	---	---	---
SC27-0	0.0-0.5	240	---	---	---
SC27-1	1.0-1.5	69	---	---	---
SC28-0	0.0-0.5	2.6	---	---	---
SC28-1	1.0-1.5	4.3	---	---	---
TTLC		1,000			
10 x STLC		50			
STLC			5.0		
TCLP				5.0	
DPH Action Level					0.015

Notes:

WET = Waste Extraction Test

TCLP = Toxicity Characteristic Leaching Procedure

SPLP = Synthetic Precipitation Leaching Procedure

mg/kg = Milligrams per kilogram

mg/l = Milligrams per liter

TTLC = California Code of Regulations, Title 22 Total Threshold Limit Concentration

STLC = California Code of Regulations, Title 22 Soluble Threshold Limit Concentration in milligrams per liter

10 x STLC = Ten times the Soluble Threshold Limit Concentration

J = Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.

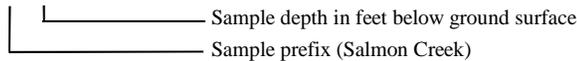
DPH = California Department of Public Health Regulatory Action Level, 2014

--- = Not analyzed

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS - TITLE 22 METALS
SALMON CREEK BRIDGE REPLACEMENT PROJECT
MENDOCINO COUNTY, CALIFORNIA

ANALYTE	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury	
SAMPLE ID	Results reported in milligrams per kilogram																	
SC3-0	<2.0	3.6	140	<1.0	<1.0	27	9.5	24	480	<1.0	19	<1.0	<1.0	<1.0	54	520	<0.10	
SC9-0	<2.0	3.1	97	<1.0	<1.0	38	7.8	24	220	<1.0	20	<1.0	<1.0	<1.0	41	270	<0.10	
SC13-0	<2.0	2.7	76	<1.0	<1.0	18	4.7	22	710	<1.0	11	<1.0	<1.0	<1.0	26	210	0.16	
SC20-0	<2.0	1.7	27	<1.0	<1.0	8.9	3.1	18	1,300	<1.0	9.2	<1.0	<1.0	<1.0	9.1	330	<0.10	
BKGD	<2.0	3.6	77	<1.0	<1.0	24	7.6	13	7.3	<1.0	18	<1.0	<1.0	<1.0	37	44	<0.10	
TTL	500	500	10,000	75	100	2,500 / 500 ¹	8,000	2,500	1,000	3,500	2,000	100	500	700	2,400	5,000	20	
10 x STLC	150	50	1,000	7.5	10	50 / 50 ¹	800	250	50	3,500	200	10	50	70	240	2,500	2.0	
Published Background ²	0.60	3.5	509	1.28	0.36	122	14.9	28.7	23.9	1.3	57	0.058	0.80	0.56	112	149	0.26	
CHHSLs	Residential	30	0.07	5,200	150	1.7	100,000/17	660	3,000	80	380	1,600	380	380	5.0	530	23,000	18
	Industrial	380	0.24	63,000	1,700	7.5	100,000	3,200	38,000	320	4,800	16,000	4,800	4,800	63	6,700	100,000	180

Notes: SC-3.0



< = Less than laboratory reporting limits

TTL = California Code of Regulations, Title 22 Total Threshold Limit Concentration

STLC = California Code of Regulations, Title 22 Soluble Threshold Limit Concentration in milligrams per liter

10 x STLC = Ten times the Soluble Threshold Limit Concentration

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

¹ = Chromium III / Chromium VI

² = Background: Mean Concentration - Background Concentrations of Trace and Major Elements in California Soils, U.C. Calif., March 1996

CHHSLs = California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties

TABLE 3
SUMMARY OF WATER SAMPLE ANALYTICAL RESULTS - LEAD
SALMON CREEK BRIDGE REPLACEMENT PROJECT
MENDOCINO COUNTY, CALIFORNIA

SAMPLE ID	SAMPLE TYPE	LEAD (milligrams per liter)
SCHP1	Grab groundwater sample	0.13
SCHP2	Grab groundwater sample	0.52
CO	Water outfall from culvert	<0.0050
Environmental Screening Levels (ESL)		0.010
Maximum Contaminant Level (MCL)		0.010

Notes:

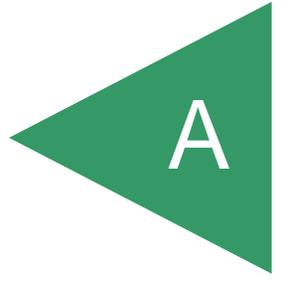
SFBRWQCB = San Francisco Bay Regional Water Quality Control Board

ESL Table F-1a (groundwater is a current or potential drinking water resource), SFBRWQCB, December 2013

MCL - Title 22 of the California Code of Regulations, Revised July 1, 2014

APPENDIX

A





October 10, 2014

John Juhrend
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax:(916) 852-9132

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1402935
Client Reference : SALMON CREEK, S9805-01-35

Enclosed are the results for sample(s) received on October 03, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read 'E. Rodriguez', written in a cursive style.

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

3275 Walnut Avenue, Signal Hill, CA 90755 • Tel: 562-989-4045 • Fax: 562-989-4040
www.atlglobal.com



Certificate of Analysis

Geocon Consultants, Inc.

Project Number : SALMON CREEK, S9805-01-35

3160 Gold Valley Drive, Suite 800

Report To : John Juhrend

Rancho Cordova , CA 95742

Reported : 10/10/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SC1-0	1402935-01	Soil	9/29/14 12:30	10/03/14 8:45
SC1-1	1402935-02	Soil	9/29/14 12:40	10/03/14 8:45
SC1-2	1402935-03	Soil	9/29/14 12:55	10/03/14 8:45
SC2-0	1402935-04	Soil	9/29/14 13:20	10/03/14 8:45
SC2-1	1402935-05	Soil	9/29/14 13:25	10/03/14 8:45
SC2-2	1402935-06	Soil	9/29/14 13:30	10/03/14 8:45
SC3-0	1402935-07	Soil	9/29/14 13:40	10/03/14 8:45
SC3-1	1402935-08	Soil	9/29/14 13:45	10/03/14 8:45
SC3-2	1402935-09	Soil	9/29/14 13:50	10/03/14 8:45
SC4-0	1402935-10	Soil	9/29/14 14:00	10/03/14 8:45
SC4-1	1402935-11	Soil	9/29/14 14:05	10/03/14 8:45
SC4-2	1402935-12	Soil	9/29/14 14:10	10/03/14 8:45
SC5-0	1402935-13	Soil	9/29/14 14:20	10/03/14 8:45
SC5-1	1402935-14	Soil	9/29/14 14:25	10/03/14 8:45
SC5-2	1402935-15	Soil	9/29/14 14:30	10/03/14 8:45
SC6-0	1402935-16	Soil	9/29/14 14:40	10/03/14 8:45
SC6-1	1402935-17	Soil	9/29/14 14:45	10/03/14 8:45
SC6-2	1402935-18	Soil	9/29/14 14:50	10/03/14 8:45
SC7-0	1402935-19	Soil	9/29/14 15:00	10/03/14 8:45
SC7-1	1402935-20	Soil	9/29/14 15:05	10/03/14 8:45
SC7-2	1402935-21	Soil	9/29/14 15:10	10/03/14 8:45
SC8-0	1402935-22	Soil	9/29/14 15:15	10/03/14 8:45
SC8-1	1402935-23	Soil	9/29/14 15:20	10/03/14 8:45
SC8-2	1402935-24	Soil	9/29/14 15:25	10/03/14 8:45
SC9-0	1402935-25	Soil	9/29/14 15:40	10/03/14 8:45
SC9-1	1402935-26	Soil	9/29/14 15:45	10/03/14 8:45
SC9-2	1402935-27	Soil	9/29/14 15:50	10/03/14 8:45
SC10-0	1402935-28	Soil	9/29/14 16:00	10/03/14 8:45
SC10-1	1402935-29	Soil	9/29/14 16:05	10/03/14 8:45
SC10-2	1402935-30	Soil	9/29/14 16:10	10/03/14 8:45
SC11-0	1402935-31	Soil	9/29/14 16:12	10/03/14 8:45
SC11-1	1402935-32	Soil	9/29/14 16:15	10/03/14 8:45
SC11-2	1402935-33	Soil	9/29/14 16:20	10/03/14 8:45
SC12-0	1402935-34	Soil	9/30/14 7:45	10/03/14 8:45



Certificate of Analysis

Geocon Consultants, Inc.

Project Number : SALMON CREEK, S9805-01-35

3160 Gold Valley Drive, Suite 800

Report To : John Juhrend

Rancho Cordova , CA 95742

Reported : 10/10/2014

SC12-1	1402935-35	Soil	9/30/14 7:47	10/03/14 8:45
SC12-2	1402935-36	Soil	9/30/14 7:49	10/03/14 8:45
SC13-0	1402935-37	Soil	9/30/14 7:55	10/03/14 8:45
SC13-1	1402935-38	Soil	9/30/14 7:57	10/03/14 8:45
SC13-2	1402935-39	Soil	9/30/14 7:59	10/03/14 8:45
SC14-0	1402935-40	Soil	9/30/14 8:00	10/03/14 8:45
SC14-1	1402935-41	Soil	9/30/14 8:02	10/03/14 8:45
SC15-0	1402935-42	Soil	9/30/14 8:20	10/03/14 8:45
SC15-1	1402935-43	Soil	9/30/14 8:22	10/03/14 8:45
SC15-2	1402935-44	Soil	9/30/14 8:24	10/03/14 8:45
SC16-0	1402935-45	Soil	9/30/14 8:35	10/03/14 8:45
SC16-1	1402935-46	Soil	9/30/14 8:37	10/03/14 8:45
SC16-2	1402935-47	Soil	9/30/14 8:39	10/03/14 8:45
SC17-0	1402935-48	Soil	9/30/14 8:50	10/03/14 8:45
SC17-1	1402935-49	Soil	9/30/14 8:52	10/03/14 8:45
SC17-2	1402935-50	Soil	9/30/14 8:54	10/03/14 8:45
SC18-0	1402935-51	Soil	9/30/14 9:00	10/03/14 8:45
SC18-1	1402935-52	Soil	9/30/14 9:02	10/03/14 8:45
SC18-2	1402935-53	Soil	9/30/14 9:04	10/03/14 8:45
SC19-0	1402935-54	Soil	9/30/14 9:10	10/03/14 8:45
SC19-1	1402935-55	Soil	9/30/14 9:12	10/03/14 8:45
SC20-0	1402935-56	Soil	9/30/14 10:15	10/03/14 8:45
SC20-1	1402935-57	Soil	9/30/14 10:17	10/03/14 8:45
SC20-2	1402935-58	Soil	9/30/14 10:19	10/03/14 8:45
SC21-0	1402935-59	Soil	9/30/14 10:25	10/03/14 8:45
SC21-1	1402935-60	Soil	9/30/14 10:27	10/03/14 8:45
SC21-2	1402935-61	Soil	9/30/14 10:29	10/03/14 8:45
SC22-0	1402935-62	Soil	9/30/14 10:40	10/03/14 8:45
SC22-1	1402935-63	Soil	9/30/14 10:42	10/03/14 8:45
SC22-2	1402935-64	Soil	9/30/14 10:44	10/03/14 8:45
SC23-0	1402935-65	Soil	9/30/14 10:50	10/03/14 8:45
SC23-1	1402935-66	Soil	9/30/14 10:52	10/03/14 8:45
SC23-2	1402935-67	Soil	9/30/14 10:54	10/03/14 8:45



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 10/10/2014

Lead by ICP-AES EPA 6010B

Analyte: Lead

Analyst: SB

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1402935-01	SC1-0	31	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 16:50	
1402935-02	SC1-1	6.2	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 16:51	
1402935-03	SC1-2	6.7	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 16:52	
1402935-04	SC2-0	410	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 16:53	
1402935-05	SC2-1	190	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 16:53	
1402935-06	SC2-2	44	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 16:54	
1402935-07	SC3-0	580	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 16:55	
1402935-08	SC3-1	82	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 16:58	
1402935-09	SC3-2	16	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 16:59	
1402935-10	SC4-0	77	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 16:59	
1402935-11	SC4-1	49	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 17:02	
1402935-12	SC4-2	14	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 17:02	
1402935-13	SC5-0	290	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 17:03	
1402935-14	SC5-1	110	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 17:04	
1402935-15	SC5-2	21	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 17:05	
1402935-16	SC6-0	390	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 17:34	
1402935-17	SC6-1	410	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 17:34	
1402935-18	SC6-2	20	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 17:35	
1402935-19	SC7-0	360	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 17:36	
1402935-20	SC7-1	140	mg/kg	1.0	1	B4J0220	10/09/2014	10/09/14 17:37	
1402935-21	SC7-2	27	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:45	
1402935-22	SC8-0	330	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:46	
1402935-23	SC8-1	24	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:47	
1402935-24	SC8-2	16	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:47	
1402935-25	SC9-0	280	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:48	
1402935-26	SC9-1	120	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:49	
1402935-27	SC9-2	15	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:50	
1402935-28	SC10-0	200	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:50	
1402935-29	SC10-1	120	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:51	
1402935-30	SC10-2	22	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:54	



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 10/10/2014

Lead by ICP-AES EPA 6010B

Analyte: Lead

Analyst: SB

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1402935-31	SC11-0	55	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:56	
1402935-32	SC11-1	40	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:57	
1402935-33	SC11-2	30	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:58	
1402935-34	SC12-0	200	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:58	
1402935-35	SC12-1	97	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 17:59	
1402935-36	SC12-2	55	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 18:00	
1402935-37	SC13-0	520	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 18:01	
1402935-38	SC13-1	250	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 18:03	
1402935-39	SC13-2	40	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 18:04	
1402935-40	SC14-0	440	mg/kg	1.0	1	B4J0221	10/09/2014	10/09/14 18:05	
1402935-41	SC14-1	130	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:11	
1402935-42	SC15-0	220	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:14	
1402935-43	SC15-1	170	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:15	
1402935-44	SC15-2	30	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:15	
1402935-45	SC16-0	130	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:16	
1402935-46	SC16-1	58	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:17	
1402935-47	SC16-2	28	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:18	
1402935-48	SC17-0	81	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:18	
1402935-49	SC17-1	22	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:19	
1402935-50	SC17-2	15	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:20	
1402935-51	SC18-0	170	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:24	
1402935-52	SC18-1	36	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:25	
1402935-53	SC18-2	17	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:26	
1402935-54	SC19-0	64	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:27	
1402935-55	SC19-1	44	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:27	
1402935-56	SC20-0	1300	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:28	
1402935-57	SC20-1	120	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:29	
1402935-58	SC20-2	17	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:30	
1402935-59	SC21-0	560	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:30	
1402935-60	SC21-1	54	mg/kg	1.0	1	B4J0222	10/09/2014	10/09/14 18:33	



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 10/10/2014

Lead by ICP-AES EPA 6010B

Analyte: Lead

Analyst: SB

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1402935-61	SC21-2	22	mg/kg	1.0	1	B4J0223	10/09/2014	10/09/14 18:38	
1402935-62	SC22-0	830	mg/kg	1.0	1	B4J0223	10/09/2014	10/09/14 18:39	
1402935-63	SC22-1	240	mg/kg	1.0	1	B4J0223	10/09/2014	10/09/14 18:40	
1402935-64	SC22-2	36	mg/kg	1.0	1	B4J0223	10/09/2014	10/09/14 18:40	
1402935-65	SC23-0	240	mg/kg	1.0	1	B4J0223	10/09/2014	10/09/14 18:43	
1402935-66	SC23-1	730	mg/kg	1.0	1	B4J0223	10/09/2014	10/09/14 18:44	
1402935-67	SC23-2	69	mg/kg	1.0	1	B4J0223	10/09/2014	10/09/14 18:45	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35
 Report To : John Juhrend
 Reported : 10/10/2014

QUALITY CONTROL SECTION

Lead by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4J0220 - EPA 3050 Modified									
Blank (B4J0220-BLK1)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	ND	1.0							NR
Blank (B4J0220-BLK2)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	ND	1.0							NR
LCS (B4J0220-BS1)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	52.8784	1.0	50.0000		106	80 - 120			
Duplicate (B4J0220-DUP1)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	142.885	1.0		140.314	NR		1.82	20	
Duplicate (B4J0220-DUP2)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	75.5460	1.0		77.1120	NR		2.05	20	
Matrix Spike (B4J0220-MS1)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	323.222	1.0	250.000	140.314	73.2	33 - 134			
Matrix Spike (B4J0220-MS2)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	296.072	1.0	250.000	77.1120	87.6	33 - 134			
Matrix Spike Dup (B4J0220-MSD1)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	319.695	1.0	250.000	140.314	71.8	33 - 134	1.10	20	
Batch B4J0221 - EPA 3050 Modified									
Blank (B4J0221-BLK1)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	ND	1.0							NR
Blank (B4J0221-BLK2)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	ND	1.0							NR
LCS (B4J0221-BS1)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	52.3798	1.0	50.0000		105	80 - 120			
Duplicate (B4J0221-DUP1)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	462.160	1.0		443.709	NR		4.07	20	
Duplicate (B4J0221-DUP2)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	19.5180	1.0		22.2356	NR		13.0	20	
Matrix Spike (B4J0221-MS1)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	791.352	1.0	250.000	443.709	139	33 - 134			M1
Matrix Spike (B4J0221-MS2)					Prepared: 10/9/2014 Analyzed: 10/9/2014				
Lead	228.899	1.0	250.000	22.2356	82.7	33 - 134			



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35
 Report To : John Juhrend
 Reported : 10/10/2014

Lead by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4J0221 - EPA 3050 Modified (continued)									
Matrix Spike Dup (B4J0221-MSD1)		Source: 1402935-40		Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	650.706	1.0	250.000	443.709	82.8	33 - 134	19.5	20	
Batch B4J0222 - EPA 3050 Modified									
Blank (B4J0222-BLK1)				Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	ND	1.0			NR				
Blank (B4J0222-BLK2)				Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	ND	1.0			NR				
LCS (B4J0222-BS1)				Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	52.2252	1.0	50.0000		104	80 - 120			
Duplicate (B4J0222-DUP1)		Source: 1402935-60		Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	54.8911	1.0		54.1572	NR		1.35	20	
Duplicate (B4J0222-DUP2)		Source: 1402935-50		Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	27.4573	1.0		15.1083	NR		58.0	20	R
Matrix Spike (B4J0222-MS1)		Source: 1402935-60		Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	251.126	1.0	250.000	54.1572	78.8	33 - 134			
Matrix Spike (B4J0222-MS2)		Source: 1402935-50		Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	207.081	1.0	250.000	15.1083	76.8	33 - 134			
Matrix Spike Dup (B4J0222-MSD1)		Source: 1402935-60		Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	254.694	1.0	250.000	54.1572	80.2	33 - 134	1.41	20	
Batch B4J0223 - EPA 3050 Modified									
Blank (B4J0223-BLK1)				Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	ND	1.0			NR				
LCS (B4J0223-BS1)				Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	52.5884	1.0	50.0000		105	80 - 120			
Duplicate (B4J0223-DUP1)		Source: 1402935-67		Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	49.7045	1.0		69.0696	NR		32.6	20	R
Matrix Spike (B4J0223-MS1)		Source: 1402935-67		Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	229.580	1.0	250.000	69.0696	64.2	33 - 134			
Matrix Spike Dup (B4J0223-MSD1)		Source: 1402935-67		Prepared: 10/9/2014 Analyzed: 10/9/2014					
Lead	250.562	1.0	250.000	69.0696	72.6	33 - 134	8.74	20	



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 10/10/2014

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

P.O.#: _____
 Logged By: _____ Date: _____

Method of Transport: Client ATL CA OverN FEDEX Other: ATL

Sample Condition Upon Receipt: 1. CHILLED 4. SEALED Y N 2. HEADSPACE (VOA) 5. # OF SPLS MATCH COC Y N 3. CONTAINER INTACT 6. PRESERVED Y N

Client: **GEOCON CONSULTANTS, INC.**
 Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742 FAX: (916) 852-9132
 TEL: (916) 852-9118

Project Name: SALMON CREEK Project #: 59805-01-35 Sampler: JOHN JIMMENDY
 Relinquished by: (Signature and Printed Name) _____ Date: 10/27/14 Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Received by: (Signature and Printed Name) _____ Date: 10/27/14 Time: _____
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Bill To: _____ Attn: _____
 Co: _____ Address: _____ City: _____ State: _____ Zip: _____
 Circle or Add Analysis(es) Requested: _____

Special Instructions/Comments:
CALTRANS 03A2132
MONOMERIZE SAMPLES
PRIOR TO ANALYSIS -
TIRE 22 SCAN REMAIN LEAD DATA

Send Report To: _____ Attn: _____
 Address: _____ City: _____ State: _____ Zip: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr (Submitter): JOHN JIMMENDY Date: _____
 Signature: _____

Sample Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:	Sample Description	Sample I.D. / Location	Date	Time
1402935 - 1	SC1-0	9/27/14	1230	
- 2	SC1-1		1240	
- 3	SC1-2		1255	
- 4	SC2-0		1320	
- 5	SC2-1		1325	
- 6	SC2-2		1330	
- 7	SC2-0		1340	
- 8	SC3-1		1345	
- 9	SC3-2		1350	
- 10	SC4-0		1400	

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tealjar G=Glass P=Plastic M=Metal
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

P.O.#: _____ Date: _____
 Logged By: _____

Method of Transport: Client ATL CA OverN FEDEX Other: _____

Sample Condition Upon Receipt: 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742
 TEL: (916) 852-9118 FAX: (916) 852-9132

Project Name: JARVIS CREEK Project #: 59805-01-35 Sampler: JOHN JUMANO
 Relinquished by: (Signature and Printed Name) _____ Date: 10/21/14
 Relinquished by: (Signature and Printed Name) _____ Date: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____

Received by: (Signature and Printed Name) _____ Date: 10/21/14
 Received by: (Signature and Printed Name) _____ Date: _____
 Received by: (Signature and Printed Name) _____ Date: _____

Bill To: _____ City: _____ State: _____ Zip: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Special Instructions/Comments: SEE PG 1

I hereby authorize ATL to perform the work indicated below:
 Project Mgr /Submitter: JOHN JUMANO Date: 10/21/14
 Signature: _____

Send Report To: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Samples/Records Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch #:	Lab No.	Sample Description	Sample I.D. / Location		Date	Time
			Sample I.D.	Location		
1402935	-11	SC4-1	9/29/14	1405		
	-12	SC4-2		1410		
	-13	SC5-0		1420		
	-14	SC5-1		1425		
	-15	SC5-2		1430		
	-16	SC6-0		1440		
	-17	SC6-1		1445		
	-18	SC6-2		1450		
	-19	SC7-0		1500		
	-20	SC7-1		1505		

Circle or Add Analysis(es) Requested: 8081A (Pesticides)
8200 (PCB)
8270C (BNA)
6010B (Total Metal)
8015B (GRO) / BTEX
8015B (PRO)

SPECIFY APPROPRIATE MATRIX: WATER
GROUND WATER
WASTEWATER
SOIL

Container(s) # Type: 1 BPC

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Sample Condition Upon Receipt
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Method of Transport
 Client
 ATL
 CA OverN
 FEDEX
 Other: ENTRAC

P.O.#: _____ Date: _____
 Logged By: _____

Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742
 TEL: (916) 852-9118 FAX: (916) 852-9132

Project Name: SALMON SAMPLER Project #: 59805-0135 Sampler: _____
 Relinquished by: (Signature and Printed Name) [Signature] Received by: (Signature and Printed Name) [Signature]
 Date: 10/21/14 Time: _____
 Relinquished by: (Signature and Printed Name) [Signature] Received by: (Signature and Printed Name) [Signature]
 Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) [Signature] Received by: (Signature and Printed Name) [Signature]
 Date: _____ Time: _____

Special Instructions/Comments: SEE PG 1

Bill To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Send Report To: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Project Mgr / Submitter: [Signature] Date: 10/21/14

Sample Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch #:	Lab No.	Sample Description	Sample I.D. / Location		Date		Time
			Sample I.D.	Location	Date	Time	
	1402935 - 21	SC7-2	912914		1510		
	- 22	SC8-0			1515		
	- 23	SC8-1			1520		
	- 24	SC8-2			1525		
	- 25	SC9-0			1540		
	- 26	SC9-1			1545		
	- 27	SC9-2			1550		
	- 28	SC10-0			1600		
	- 29	SC10-1			1605		
	- 30	SC10-2			1610		

LAB USE ONLY:

Circle or Add Analysis(es) Requested:
 801A (Pesticides) 826B (Vocals) 8270C (BNA) 8010B (Total Metal) 8015B (GRO) / BTEX 8015B (PRO) SOIL WATER GROUND WATER WASTEWATER

Container(s) # Type: 1 BPC

QA/QC: RTNE CT SWRCB Logcode OTHER REMARKS

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Client: **GEOCON CONSULTANTS, INC.**
 Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742 FAX: (916) 852-9132
 TEL: (916) 852-9118

Project Name: **SALMON GREEN** Project #: **59805-01-35** Sampler: **JOHN JOURNAL**
 Relinquished by: (Signature and Printed Name) *[Signature]* Date: **10/2/14** Time: **1700**
 Relinquished by: (Signature and Printed Name) *[Signature]* Date: **10/17/14** Time: **800**
 Relinquished by: (Signature and Printed Name) *[Signature]* Date: **10/17/14** Time: **800**

Method of Transport: Client ATL CA OverN FEDEX Other: **ENTRAC**
 Sample Condition Upon Receipt: 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Special Instructions/Comments: **SEE Pgs 1**

Bill To: _____ Attn: _____ Co: _____ Address: _____ City: _____ State: _____ Zip: _____
 Attn: _____ Co: _____ Address: _____ City: _____ State: _____ Zip: _____
 Co: _____ Address: _____ City: _____ State: _____ Zip: _____
 Address: _____ City: _____ State: _____ Zip: _____

LAB USE ONLY:

LAB USE ONLY:	Batch #:	Sample Description	Sample I.D. / Location	Date	Time
	1402935-31		5C11-0	9/29/14	1612
	-32		5C11-1		1615
	-33		5C11-2		1620
	-34		5C12-0	9/30/14	0745
	-35		5C12-1		0747
	-36		5C12-2		0749
	-37		5C13-0		0755
	-38		5C13-1		0757
	-39		5C13-2		0759
	-40		5C14-0		0800

SPECIFY APPROPRIATE MATRIX	CONTAINER(S)		PRESERVATION	Q/A/QC
	TAT	Type		
SOIL	X			RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/>
GROUND WATER	X			SWRCB <input type="checkbox"/> Logcode <input type="checkbox"/>
WATER	X			OTHER
WASTEWATER	X			REMARKS
8081 (Pesticides)	X			
8082 (PCB)	X			
82608 (Vials)	X			
8270C (BNA)	X			
80108 (Total Metal)	X			
80158 (GRO / BTEX)	X			
80158 (DRO)	X			

TAT: **A=** Overnight **B=** Emergency Next workday **C=** Critical 2 Workdays **D=** Urgent 3 Workdays **E=** Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Bedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Nas₂O₃

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Client: GEOCON CONSULTANTS, INC.
Attn: _____
 Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip: 95742
 TEL: (916) 852-9118 FAX: (916) 852-9132

Method of Transport
 Client ATL CA OverN FEDEX Other: _____
 Sample Condition Upon Receipt
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Method of Transport
 Client ATL CA OverN FEDEX Other: _____
 P.O.#: _____ Date: _____
 Logged By: _____

Project Name: SANNON CARBON Project #: 59805-01-35 Sampler: _____
Relinquished by: (Signature and Printed Name) _____
 Date: 10/2 Time: 1700
Relinquished by: (Signature and Printed Name) _____
 Date: _____ Time: _____
Relinquished by: (Signature and Printed Name) _____
 Date: _____ Time: _____

Special Instructions/Comments:
 Sick ps I

Bill To: _____
Attn: _____
Co: _____
Address: _____
City: _____ **State:** _____ **Zip:** _____

Send Report To: _____
Attn: _____
Co: _____
Address: _____
City: _____ **State:** _____ **Zip:** _____

Sample Records - Arrival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch #:	Lab No.	Sample Description	Sample I.D. / Location		Date	Time	PRESERVATION	Q A / Q C
			Sample I.D.	Location				
1402935-41	SC14-1		9/30/14	0802				
-42	SC15-0			0820				
-43	SC15-1			0822				
-44	SC15-2			0824				
-45	SC16-0			0835				
-46	SC16-1			0837				
-47	SC16-2			0839				
-48	SC17-0			0850				
-49	SC17-1			0852				
-50	SC17-2			0854				

Circle or Add Analysis(es) Requested
 801A (Pesticides) 8208 (Volatiles) 8270C (ANs) 8010B (Total Metal) 8015B (GRO) / BTEX 8015B (DRO)

Container(s)
 Container # Type
 E 1 BPC

Matrix
 SOIL WATER GROUND WATER WASTEWATER

REMARKS
 TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 Container Types: T=Tube V=VOA L=Liter J=Jar B=Tedlar G=Glass P=Plastic M=Metal
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(Ac)₂ O=NaOH T=Na₂SO₃

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

Method of Transport: Client ATL CA OverN FEDEX Other: ENTIRE

Sample Condition Upon Receipt: 1. CHILLED Y N 4. SEALED Y N 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: **GEOCON CONSULTANTS, INC.** Address: 3160 Gold Valley Drive, Suite 800
 Attn: _____ City: Rancho Cordova State: CA Zip Code: 95742
 TEL: (916) 852-9118 FAX: (916) 852-9132

Project Name: SARAN CARROLL Project #: 59805-01-35 Sampler: _____
 Relinquished by: _____ Date: 10/2/14 Time: _____
 Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: _____ Time: _____

Project Mgr /Submitter: _____
 I hereby authorize ATL to perform the work indicated below:
 Project Mgr /Submitter: _____
 Print Name: _____ Date: _____
 Signature: _____
 Send Report To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Special Instructions/Comments: 5th RI

Circle or Add Analysis(es) Requested: _____

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch # / Lab No.	Sample Description	Sample I.D. / Location		Date	Time
		Sample I.D.	Location		
1402935 - 51	SC18-0	9/30/14	0900		
- 52	SC18-1		0902		
- 53	SC18-2		0904		
- 54	SC19-0		0910		
- 55	SC19-1		0912		
- 56	SC20-0		1015		
- 57	SC20-1		1017		
- 58	SC20-2		1019		
- 59	SC21-0		1025		
- 60	SC21-1		1027		

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Jar B=Tedlar J=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

SPECIFY APPROPRIATE MATRIX	Container(s)		TAT	Type	REMARKS
	#	Type			
SOIL	X				
GROUND WATER	X				
WASTEWATER	X				
WATER	X				
801A (Pesticides)	X				
802 (PCB)	X				
820B (Volatiles)	X				
8270C (BNA)	X				
801B (Total Metal)	X				
8015B (GRO) / BTEX	X				
8015B (DRO)	X				

CHAIN OF CUSTODY RECORD

Pg 7 of 7

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

P.O.#: _____
 Logged By: _____ Date: _____

Method of Transport: Client ATL CA OverN FEDEX Other: 6210 e.c.

Sample Condition Upon Receipt:
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: **GEOCON CONSULTANTS, INC.**
 Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742
 Attn: _____ Fax: (916) 852-9132

Project Name: Shannon Lebeck Project #: 9801-01-33 Sampler: _____
 Relinquished by: (Signature and Printed Name) _____ Date: 1/26/14 Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr /Submitter: _____
 Print Name: _____ Date: _____
 Signature: _____

Special Instructions/Comments: SEAL PSI

Bill To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Send Report To:
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:	Batch #	Lab No.	Sample I.D. / Location	Date	Time	Sample Description	SPECIFY APPROPRIATE MATRIX		Container(s)	TAT	Type	Q / Q/C
							SOIL	GROUND WATER				
	140 2935 -61		SC21-2	9/30/14	1029		X	X				RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/>
			SC22-0		1040		X	X				SWRCB <input type="checkbox"/> Logcode <input type="checkbox"/> OTHER <input type="checkbox"/>
			SC22-1		1042		X	X				REMARKS
			SC22-2		1044		X	X				
			SC23-0		1050		X	X				
			SC23-1		1052		X	X				
			SC23-2		1054		X	X				

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃



October 24, 2014

John Juhrend
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax:(916) 852-9132

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1402935
Client Reference : SALMON CREEK, S9805-01-35

Enclosed are the results for sample(s) received on October 03, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read 'E. Rodriguez', written in a cursive style.

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Geocon Consultants, Inc.

Project Number : SALMON CREEK, S9805-01-35

3160 Gold Valley Drive, Suite 800

Report To : John Juhrend

Rancho Cordova , CA 95742

Reported : 10/24/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SC2-0	1402935-04	Soil	9/29/14 13:20	10/03/14 8:45
SC3-0	1402935-07	Soil	9/29/14 13:40	10/03/14 8:45
SC4-0	1402935-10	Soil	9/29/14 14:00	10/03/14 8:45
SC5-0	1402935-13	Soil	9/29/14 14:20	10/03/14 8:45
SC6-0	1402935-16	Soil	9/29/14 14:40	10/03/14 8:45
SC7-0	1402935-19	Soil	9/29/14 15:00	10/03/14 8:45
SC8-0	1402935-22	Soil	9/29/14 15:15	10/03/14 8:45
SC9-0	1402935-25	Soil	9/29/14 15:40	10/03/14 8:45
SC10-0	1402935-28	Soil	9/29/14 16:00	10/03/14 8:45
SC11-0	1402935-31	Soil	9/29/14 16:12	10/03/14 8:45
SC12-0	1402935-34	Soil	9/30/14 7:45	10/03/14 8:45
SC13-0	1402935-37	Soil	9/30/14 7:55	10/03/14 8:45
SC14-0	1402935-40	Soil	9/30/14 8:00	10/03/14 8:45
SC15-0	1402935-42	Soil	9/30/14 8:20	10/03/14 8:45
SC16-0	1402935-45	Soil	9/30/14 8:35	10/03/14 8:45
SC17-0	1402935-48	Soil	9/30/14 8:50	10/03/14 8:45
SC18-0	1402935-51	Soil	9/30/14 9:00	10/03/14 8:45
SC19-0	1402935-54	Soil	9/30/14 9:10	10/03/14 8:45
SC20-0	1402935-56	Soil	9/30/14 10:15	10/03/14 8:45
SC21-0	1402935-59	Soil	9/30/14 10:25	10/03/14 8:45
SC22-0	1402935-62	Soil	9/30/14 10:40	10/03/14 8:45
SC23-0	1402935-65	Soil	9/30/14 10:50	10/03/14 8:45



Certificate of Analysis

Geocon Consultants, Inc.

Project Number : SALMON CREEK, S9805-01-35

3160 Gold Valley Drive, Suite 800

Report To : John Juhrend

Rancho Cordova , CA 95742

Reported : 10/24/2014

TCLP Metals by ICP-AES EPA 6010B

Analyte: Lead

Analyst: SB

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time	Notes
								Analyzed	
1402935-56	SC20-0	0.42	mg/L	0.050	1	B4J0402	10/15/2014	10/15/14 14:39	

STLC Metals by ICP-AES by EPA 6010B

Analyte: Lead

Analyst: CB

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time	Notes
								Analyzed	
1402935-04	SC2-0	33	mg/L	1.0	20	B4J0453	10/16/2014	10/17/14 17:05	
1402935-07	SC3-0	31	mg/L	1.0	20	B4J0453	10/16/2014	10/17/14 17:07	
1402935-10	SC4-0	2.4	mg/L	1.0	20	B4J0453	10/16/2014	10/17/14 17:16	
1402935-13	SC5-0	19	mg/L	1.0	20	B4J0453	10/16/2014	10/17/14 17:18	
1402935-16	SC6-0	24	mg/L	1.0	20	B4J0453	10/16/2014	10/17/14 17:20	
1402935-19	SC7-0	16	mg/L	1.0	20	B4J0453	10/16/2014	10/17/14 17:26	
1402935-22	SC8-0	15	mg/L	1.0	20	B4J0453	10/16/2014	10/17/14 17:29	
1402935-25	SC9-0	14	mg/L	1.0	20	B4J0453	10/16/2014	10/17/14 17:31	
1402935-28	SC10-0	8.4	mg/L	1.0	20	B4J0453	10/16/2014	10/17/14 17:33	
1402935-31	SC11-0	2.5	mg/L	1.0	20	B4J0453	10/16/2014	10/17/14 17:35	
1402935-34	SC12-0	11	mg/L	1.0	20	B4J0453	10/16/2014	10/17/14 17:37	
1402935-37	SC13-0	35	mg/L	1.0	20	B4J0453	10/16/2014	10/17/14 17:40	
1402935-40	SC14-0	24	mg/L	1.0	20	B4J0454	10/16/2014	10/17/14 17:54	
1402935-42	SC15-0	11	mg/L	1.0	20	B4J0454	10/16/2014	10/17/14 17:57	
1402935-45	SC16-0	5.3	mg/L	1.0	20	B4J0454	10/16/2014	10/17/14 17:59	
1402935-48	SC17-0	4.4	mg/L	1.0	20	B4J0454	10/16/2014	10/17/14 18:01	
1402935-51	SC18-0	14	mg/L	1.0	20	B4J0454	10/16/2014	10/17/14 18:03	
1402935-54	SC19-0	3.1	mg/L	1.0	20	B4J0454	10/16/2014	10/17/14 18:06	
1402935-59	SC21-0	18	mg/L	1.0	20	B4J0454	10/16/2014	10/17/14 18:08	
1402935-62	SC22-0	52	mg/L	1.0	20	B4J0454	10/16/2014	10/17/14 18:10	
1402935-65	SC23-0	25	mg/L	1.0	20	B4J0454	10/16/2014	10/17/14 18:12	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35
 Report To : John Juhrend
 Reported : 10/24/2014

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4J0402 - EPA 3010A_SOIL									
Blank (B4J0402-BLK1)					Prepared: 10/15/2014 Analyzed: 10/15/2014				
Lead	ND	0.050					NR		
Blank (B4J0402-BLK2)					Prepared: 10/15/2014 Analyzed: 10/15/2014				
Lead	ND	0.050					NR		
LCS (B4J0402-BS1)					Prepared: 10/15/2014 Analyzed: 10/15/2014				
Lead	0.918570	0.050	1.00000		91.9	80 - 120			
Duplicate (B4J0402-DUP1)					Prepared: 10/15/2014 Analyzed: 10/15/2014				
Lead	0.425545	0.050		0.418220	NR		1.74	20	
Matrix Spike (B4J0402-MS1)					Prepared: 10/15/2014 Analyzed: 10/15/2014				
Lead	2.88120	0.050	2.50000	0.418220	98.5	77 - 121			
Matrix Spike Dup (B4J0402-MSD1)					Prepared: 10/15/2014 Analyzed: 10/15/2014				
Lead	2.72204	0.050	2.50000	0.418220	92.2	77 - 121	5.68	20	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova , CA 95742

Project Number : SALMON CREEK, S9805-01-35
 Report To : John Juhrend
 Reported : 10/24/2014

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec Limits	% Rec Limits	RPD	RPD Limit	Notes
Batch B4J0453 - STLC Extraction									
Blank (B4J0453-BLK1)					Prepared: 10/16/2014 Analyzed: 10/17/2014				
Lead	ND	1.0			NR				
Blank (B4J0453-BLK2)					Prepared: 10/16/2014 Analyzed: 10/17/2014				
Lead	ND	1.0			NR				
LCS (B4J0453-BS1)					Prepared: 10/16/2014 Analyzed: 10/17/2014				
Lead	1.98784	1.0	2.00000		99.4	80 - 120			
Duplicate (B4J0453-DUP1)					Prepared: 10/16/2014 Analyzed: 10/17/2014				
Lead	30.3524	1.0		30.7392	NR		1.27	20	
Duplicate (B4J0453-DUP2)					Prepared: 10/16/2014 Analyzed: 10/17/2014				
Lead	33.3610	1.0		34.6269	NR		3.72	20	
Matrix Spike (B4J0453-MS1)					Prepared: 10/16/2014 Analyzed: 10/17/2014				
Lead	28.1258	1.0	2.50000	30.7392	-105	44 - 130			M1
Matrix Spike (B4J0453-MS2)					Prepared: 10/16/2014 Analyzed: 10/17/2014				
Lead	34.7305	1.0	2.50000	34.6269	4.15	44 - 130			M1
Matrix Spike Dup (B4J0453-MSD1)					Prepared: 10/16/2014 Analyzed: 10/17/2014				
Lead	31.2892	1.0	2.50000	30.7392	22.0	44 - 130	10.6	20	M1
Batch B4J0454 - STLC Extraction									
Blank (B4J0454-BLK1)					Prepared: 10/16/2014 Analyzed: 10/17/2014				
Lead	ND	1.0			NR				
LCS (B4J0454-BS1)					Prepared: 10/16/2014 Analyzed: 10/17/2014				
Lead	2.30379	1.0	2.00000		115	80 - 120			
Duplicate (B4J0454-DUP1)					Prepared: 10/16/2014 Analyzed: 10/17/2014				
Lead	30.9863	1.0		24.5705	NR		23.1	20	R
Matrix Spike (B4J0454-MS1)					Prepared: 10/16/2014 Analyzed: 10/17/2014				
Lead	26.9747	1.0	2.50000	24.5705	96.2	44 - 130			
Matrix Spike Dup (B4J0454-MSD1)					Prepared: 10/16/2014 Analyzed: 10/17/2014				
Lead	24.0255	1.0	2.50000	24.5705	-21.8	44 - 130	11.6	20	M1



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 10/24/2014

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

Diane Galvan

From: John Juhrend [juhend@geoconinc.com]
Sent: Monday, October 13, 2014 12:11 PM
To: Diane Galvan; Rachelle Arada
Cc: Gemma Reblando; 'Steve Werner (steve.werner@dot.ca.gov)'
Subject: FW: Results/EDD/Invoice - SALMON CREEK (1402935)
Attachments: 1402935.pdf

Hi Diane and Rachelle -

ATL 1402935:

Please analyze soil sample 56 for TCLP soluble lead under standard TAT:

Please analyze the following soil samples for WET soluble lead under standard TAT:

04
07
10
13
16
19
22
25
28
31
34
37
40
42
45
48
51
54
59
62
65

Please reply and confirm.

Thanks,

John



John Juhrend, PE, CEG, CEM | *Principal / Senior Engineer*
Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800, Rancho Cordova, CA 95742
Tel 916.852.9118, ext. 501 Mobile 916.508.1911
www.geoconinc.com

October 24, 2014

John Juhrend
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax: (916) 852-9132

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1402935
Client Reference : SALMON CREEK, S9805-01-35

Enclosed are the results for sample(s) received on October 03, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 10/24/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SC3-0	1402935-07	Soil	9/29/14 13:40	10/03/14 8:45
SC9-0	1402935-25	Soil	9/29/14 15:40	10/03/14 8:45
SC13-0	1402935-37	Soil	9/30/14 7:55	10/03/14 8:45
SC20-0	1402935-56	Soil	9/30/14 10:15	10/03/14 8:45



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35
 Report To : John Juhrend
 Reported : 10/24/2014

Client Sample ID SC3-0

Lab ID: 1402935-07

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Arsenic	3.6	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Barium	140	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Beryllium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Cadmium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Chromium	27	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Cobalt	9.5	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Copper	24	2.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Lead	480	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Molybdenum	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Nickel	19	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Selenium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Silver	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Thallium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Vanadium	54	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	
Zinc	520	1.0	1	B4J0637	10/23/2014	10/23/14 17:01	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B4J0647	10/23/2014	10/23/14 15:36	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35
 Report To : John Juhrend
 Reported : 10/24/2014

Client Sample ID SC9-0

Lab ID: 1402935-25

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Arsenic	3.1	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Barium	97	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Beryllium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Cadmium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Chromium	38	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Cobalt	7.8	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Copper	24	2.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Lead	220	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Molybdenum	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Nickel	20	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Selenium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Silver	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Thallium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Vanadium	41	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	
Zinc	270	1.0	1	B4J0637	10/23/2014	10/23/14 17:07	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B4J0647	10/23/2014	10/23/14 15:46	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35
 Report To : John Juhrend
 Reported : 10/24/2014

Client Sample ID SC13-0

Lab ID: 1402935-37

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Arsenic	2.7	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Barium	76	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Beryllium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Cadmium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Chromium	18	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Cobalt	4.7	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Copper	22	2.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Lead	710	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Molybdenum	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Nickel	11	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Selenium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Silver	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Thallium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Vanadium	26	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	
Zinc	210	1.0	1	B4J0637	10/23/2014	10/23/14 17:08	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.16	0.10	1	B4J0647	10/23/2014	10/23/14 15:48	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova , CA 95742

Project Number : SALMON CREEK, S9805-01-35
 Report To : John Juhrend
 Reported : 10/24/2014

Client Sample ID SC20-0

Lab ID: 1402935-56

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Arsenic	1.7	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Barium	27	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Beryllium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Cadmium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Chromium	8.9	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Cobalt	3.1	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Copper	18	2.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Lead	1300	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Molybdenum	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Nickel	9.2	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Selenium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Silver	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Thallium	ND	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Vanadium	9.1	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	
Zinc	330	1.0	1	B4J0637	10/23/2014	10/23/14 17:10	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B4J0647	10/23/2014	10/23/14 15:50	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35
 Report To : John Juhrend
 Reported : 10/24/2014

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B4J0637 - EPA 3050B

Blank (B4J0637-BLK1)

Prepared: 10/23/2014 Analyzed: 10/23/2014

Antimony	ND	2.0		NR
Arsenic	ND	1.0		NR
Barium	ND	1.0		NR
Beryllium	ND	1.0		NR
Cadmium	ND	1.0		NR
Chromium	ND	1.0		NR
Cobalt	ND	1.0		NR
Copper	ND	2.0		NR
Lead	ND	1.0		NR
Molybdenum	ND	1.0		NR
Nickel	ND	1.0		NR
Selenium	ND	1.0		NR
Silver	ND	1.0		NR
Thallium	ND	1.0		NR
Vanadium	ND	1.0		NR
Zinc	ND	1.0		NR

LCS (B4J0637-BS1)

Prepared: 10/23/2014 Analyzed: 10/23/2014

Antimony	47.4906	2.0	50.0000	95.0	80 - 120
Arsenic	47.9289	1.0	50.0000	95.9	80 - 120
Barium	51.6265	1.0	50.0000	103	80 - 120
Beryllium	50.2286	1.0	50.0000	100	80 - 120
Cadmium	47.8684	1.0	50.0000	95.7	80 - 120
Chromium	51.8172	1.0	50.0000	104	80 - 120
Cobalt	50.9030	1.0	50.0000	102	80 - 120
Copper	50.5454	2.0	50.0000	101	80 - 120
Lead	49.2542	1.0	50.0000	98.5	80 - 120
Molybdenum	50.6284	1.0	50.0000	101	80 - 120
Nickel	49.9598	1.0	50.0000	99.9	80 - 120
Selenium	44.9146	1.0	50.0000	89.8	80 - 120
Silver	45.4020	1.0	50.0000	90.8	80 - 120
Thallium	49.8400	1.0	50.0000	99.7	80 - 120
Vanadium	51.7876	1.0	50.0000	104	80 - 120
Zinc	46.4898	1.0	50.0000	93.0	80 - 120

Duplicate (B4J0637-DUP1)

Source: 1402935-07

Prepared: 10/23/2014 Analyzed: 10/23/2014

Antimony	0.399949	2.0	0.258517	NR	43.0	20	R
Arsenic	3.33787	1.0	3.58723	NR	7.20	20	
Barium	146.571	1.0	144.126	NR	1.68	20	
Beryllium	0.490194	1.0	0.485999	NR	0.860	20	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 10/24/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B4J0637 - EPA 3050B (continued)

Duplicate (B4J0637-DUP1) - Continued

Source: 1402935-07

Prepared: 10/23/2014 Analyzed: 10/23/2014

Cadmium	ND	1.0		ND	NR			20	
Chromium	28.2270	1.0		27.4429	NR		2.82	20	
Cobalt	9.27924	1.0		9.49938	NR		2.34	20	
Copper	25.1070	2.0		23.9240	NR		4.83	20	
Lead	485.132	1.0		480.877	NR		0.881	20	
Molybdenum	0.204049	1.0		0.201531	NR		1.24	20	
Nickel	18.4176	1.0		18.5746	NR		0.849	20	
Selenium	0.524964	1.0		0.527458	NR		0.474	20	
Silver	ND	1.0		ND	NR			20	
Thallium	ND	1.0		ND	NR			20	
Vanadium	53.4752	1.0		53.9676	NR		0.917	20	
Zinc	523.588	1.0		518.396	NR		0.996	20	

Matrix Spike (B4J0637-MS1)

Source: 1402935-07

Prepared: 10/23/2014 Analyzed: 10/23/2014

Antimony	87.3712	2.0	125.000	0.258517	69.7	21 - 126			
Arsenic	104.297	1.0	125.000	3.58723	80.6	57 - 113			
Barium	254.622	1.0	125.000	144.126	88.4	29 - 146			
Beryllium	107.301	1.0	125.000	0.485999	85.5	65 - 110			
Cadmium	97.1928	1.0	125.000	ND	77.8	56 - 107			
Chromium	136.503	1.0	125.000	27.4429	87.2	49 - 127			
Cobalt	112.011	1.0	125.000	9.49938	82.0	57 - 112			
Copper	141.276	2.0	125.000	23.9240	93.9	56 - 127			
Lead	575.830	1.0	125.000	480.877	76.0	33 - 134			
Molybdenum	103.804	1.0	125.000	0.201531	82.9	62 - 108			
Nickel	121.499	1.0	125.000	18.5746	82.3	42 - 127			
Selenium	98.6004	1.0	125.000	0.527458	78.5	58 - 105			
Silver	112.961	1.0	125.000	ND	90.4	63 - 113			
Thallium	97.1768	1.0	125.000	ND	77.7	53 - 110			
Vanadium	165.157	1.0	125.000	53.9676	89.0	66 - 112			
Zinc	591.848	1.0	125.000	518.396	58.8	28 - 137			

Matrix Spike Dup (B4J0637-MSD1)

Source: 1402935-07

Prepared: 10/23/2014 Analyzed: 10/23/2014

Antimony	91.3370	2.0	125.000	0.258517	72.9	21 - 126	4.44	20	
Arsenic	108.873	1.0	125.000	3.58723	84.2	57 - 113	4.29	20	
Barium	262.202	1.0	125.000	144.126	94.5	29 - 146	2.93	20	
Beryllium	112.688	1.0	125.000	0.485999	89.8	65 - 110	4.90	20	
Cadmium	100.696	1.0	125.000	ND	80.6	56 - 107	3.54	20	
Chromium	142.247	1.0	125.000	27.4429	91.8	49 - 127	4.12	20	
Cobalt	115.927	1.0	125.000	9.49938	85.1	57 - 112	3.44	20	
Copper	147.275	2.0	125.000	23.9240	98.7	56 - 127	4.16	20	
Lead	571.869	1.0	125.000	480.877	72.8	33 - 134	0.690	20	
Molybdenum	109.215	1.0	125.000	0.201531	87.2	62 - 108	5.08	20	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35
 Report To : John Juhrend
 Reported : 10/24/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B4J0637 - EPA 3050B (continued)

Matrix Spike Dup (B4J0637-MSD1) - Continued

Source: 1402935-07

Prepared: 10/23/2014 Analyzed: 10/23/2014

Nickel	126.309	1.0	125.000	18.5746	86.2	42 - 127	3.88	20	
Selenium	104.164	1.0	125.000	0.527458	82.9	58 - 105	5.49	20	
Silver	116.826	1.0	125.000	ND	93.5	63 - 113	3.36	20	
Thallium	102.107	1.0	125.000	ND	81.7	53 - 110	4.95	20	
Vanadium	170.146	1.0	125.000	53.9676	92.9	66 - 112	2.98	20	
Zinc	607.584	1.0	125.000	518.396	71.4	28 - 137	2.62	20	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova , CA 95742

Project Number : SALMON CREEK, S9805-01-35
 Report To : John Juhrend
 Reported : 10/24/2014

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4J0647 - EPA 7471									
Blank (B4J0647-BLK1)				Prepared: 10/23/2014 Analyzed: 10/23/2014					
Mercury	ND	0.10				NR			
LCS (B4J0647-BS1)				Prepared: 10/23/2014 Analyzed: 10/23/2014					
Mercury	0.944712	0.10	0.833333		113	80 - 120			
Duplicate (B4J0647-DUP1)				Prepared: 10/23/2014 Analyzed: 10/23/2014					
Mercury	0.035879	0.10		0.034113	NR		5.05	20	
Matrix Spike (B4J0647-MS1)				Prepared: 10/23/2014 Analyzed: 10/23/2014					
Mercury	0.927134	0.10	0.833333	0.034113	107	70 - 130			
Matrix Spike Dup (B4J0647-MSD1)				Prepared: 10/23/2014 Analyzed: 10/23/2014					
Mercury	0.921845	0.10	0.833333	0.034113	107	70 - 130	0.572	20	
Post Spike (B4J0647-PS1)				Prepared: 10/23/2014 Analyzed: 10/23/2014					
Mercury	0.006147		5.00000E-3	4.094E-4	115	85 - 115			



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 10/24/2014

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

Diane Galvan

From: John Juhrend [juhend@geoconinc.com]
Sent: Friday, October 17, 2014 12:58 PM
To: Diane Galvan
Cc: Gemma Reblando; 'Steve Werner (steve.werner@dot.ca.gov)'
Subject: RE: Results/EDD/Invoice - SALMON CREEK (1402935)

Hi Diane – additional request for this project. Please analyze the following four soil samples for Title 22 metals under standard TAT.

ATL 1402935:

07
25
37
56

Please reply and confirm.

Thank-you,

John



John Juhrend, PE, CEG, CEM | *Principal / Senior Engineer*
Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800, Rancho Cordova, CA 95742
Tel 916.852.9118, ext. 501 Mobile 916.508.1911
www.geoconinc.com

October 10, 2014

John Juhrend
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax: (916) 852-9132

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1402933
Client Reference : ALBION RIVER, S9805-01-36

Enclosed are the results for sample(s) received on October 03, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : ALBION RIVER, S9805-01-36

Report To : John Juhrend

Reported : 10/10/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKGD	1402933-01	Soil	10/01/14 16:15	10/03/14 8:50



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : ALBION RIVER, S9805-01-36
 Report To : John Juhrend
 Reported : 10/10/2014

Client Sample ID BKGD

Lab ID: 1402933-01

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Arsenic	3.6	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Barium	77	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Beryllium	ND	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Cadmium	ND	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Chromium	24	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Cobalt	7.6	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Copper	13	2.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Lead	7.3	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Molybdenum	ND	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Nickel	18	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Selenium	ND	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Silver	ND	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Thallium	ND	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Vanadium	37	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	
Zinc	44	1.0	1	B4J0217	10/09/2014	10/09/14 14:05	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B4J0219	10/09/2014	10/09/14 12:06	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : ALBION RIVER, S9805-01-36
 Report To : John Juhrend
 Reported : 10/10/2014

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B4J0217 - EPA 3050B

Blank (B4J0217-BLK1)

Prepared: 10/9/2014 Analyzed: 10/9/2014

Antimony	ND	2.0		NR
Arsenic	ND	1.0		NR
Barium	ND	1.0		NR
Beryllium	ND	1.0		NR
Cadmium	ND	1.0		NR
Chromium	ND	1.0		NR
Cobalt	ND	1.0		NR
Copper	ND	2.0		NR
Lead	ND	1.0		NR
Molybdenum	ND	1.0		NR
Nickel	ND	1.0		NR
Selenium	ND	1.0		NR
Silver	ND	1.0		NR
Thallium	ND	1.0		NR
Vanadium	ND	1.0		NR
Zinc	ND	1.0		NR

LCS (B4J0217-BS1)

Prepared: 10/9/2014 Analyzed: 10/9/2014

Antimony	53.5410	2.0	50.0000	107	80 - 120
Arsenic	54.7956	1.0	50.0000	110	80 - 120
Barium	56.1948	1.0	50.0000	112	80 - 120
Beryllium	54.7855	1.0	50.0000	110	80 - 120
Cadmium	54.8839	1.0	50.0000	110	80 - 120
Chromium	56.3064	1.0	50.0000	113	80 - 120
Cobalt	56.3850	1.0	50.0000	113	80 - 120
Copper	55.2872	2.0	50.0000	111	80 - 120
Lead	56.1186	1.0	50.0000	112	80 - 120
Molybdenum	55.2524	1.0	50.0000	111	80 - 120
Nickel	55.1266	1.0	50.0000	110	80 - 120
Selenium	53.7767	1.0	50.0000	108	80 - 120
Silver	51.1946	1.0	50.0000	102	80 - 120
Thallium	55.6082	1.0	50.0000	111	80 - 120
Vanadium	56.1198	1.0	50.0000	112	80 - 120
Zinc	55.2899	1.0	50.0000	111	80 - 120

Duplicate (B4J0217-DUP1)

Source: 1402933-01

Prepared: 10/9/2014 Analyzed: 10/9/2014

Antimony	ND	2.0	ND	NR	20
Arsenic	3.57047	1.0	3.55811	NR	0.347 20
Barium	73.2388	1.0	76.6004	NR	4.49 20
Beryllium	ND	1.0	ND	NR	20



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : ALBION RIVER, S9805-01-36
 Report To : John Juhrend
 Reported : 10/10/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B4J0217 - EPA 3050B (continued)

Duplicate (B4J0217-DUP1) - Continued

Source: 1402933-01

Prepared: 10/9/2014 Analyzed: 10/9/2014

Cadmium	0.233117	1.0		0.209486	NR		10.7	20	
Chromium	21.9504	1.0		23.7193	NR		7.75	20	
Cobalt	7.72126	1.0		7.63703	NR		1.10	20	
Copper	14.4937	2.0		13.2214	NR		9.18	20	
Lead	10.6754	1.0		7.26941	NR		38.0	20	R
Molybdenum	0.493377	1.0		0.481977	NR		2.34	20	
Nickel	17.8036	1.0		18.4639	NR		3.64	20	
Selenium	ND	1.0		ND	NR			20	
Silver	ND	1.0		ND	NR			20	
Thallium	ND	1.0		ND	NR			20	
Vanadium	33.8683	1.0		36.5389	NR		7.59	20	
Zinc	47.6115	1.0		44.2988	NR		7.21	20	

Matrix Spike (B4J0217-MS1)

Source: 1402933-01

Prepared: 10/9/2014 Analyzed: 10/9/2014

Antimony	92.6498	2.0	125.000	ND	74.1	21 - 126			
Arsenic	113.535	1.0	125.000	3.55811	88.0	57 - 113			
Barium	177.286	1.0	125.000	76.6004	80.5	29 - 146			
Beryllium	107.384	1.0	125.000	ND	85.9	65 - 110			
Cadmium	103.576	1.0	125.000	0.209486	82.7	56 - 107			
Chromium	129.908	1.0	125.000	23.7193	85.0	49 - 127			
Cobalt	115.364	1.0	125.000	7.63703	86.2	57 - 112			
Copper	127.416	2.0	125.000	13.2214	91.4	56 - 127			
Lead	114.409	1.0	125.000	7.26941	85.7	33 - 134			
Molybdenum	106.848	1.0	125.000	0.481977	85.1	62 - 108			
Nickel	125.528	1.0	125.000	18.4639	85.7	42 - 127			
Selenium	106.618	1.0	125.000	ND	85.3	58 - 105			
Silver	108.417	1.0	125.000	ND	86.7	63 - 113			
Thallium	94.5010	1.0	125.000	ND	75.6	53 - 110			
Vanadium	146.347	1.0	125.000	36.5389	87.8	66 - 112			
Zinc	237.129	1.0	125.000	44.2988	154	28 - 137			M1

Matrix Spike Dup (B4J0217-MSD1)

Source: 1402933-01

Prepared: 10/9/2014 Analyzed: 10/9/2014

Antimony	92.6456	2.0	125.000	ND	74.1	21 - 126	0.00464	20	
Arsenic	114.928	1.0	125.000	3.55811	89.1	57 - 113	1.22	20	
Barium	187.350	1.0	125.000	76.6004	88.6	29 - 146	5.52	20	
Beryllium	110.121	1.0	125.000	ND	88.1	65 - 110	2.52	20	
Cadmium	106.309	1.0	125.000	0.209486	84.9	56 - 107	2.60	20	
Chromium	134.314	1.0	125.000	23.7193	88.5	49 - 127	3.34	20	
Cobalt	117.683	1.0	125.000	7.63703	88.0	57 - 112	1.99	20	
Copper	131.106	2.0	125.000	13.2214	94.3	56 - 127	2.85	20	
Lead	115.024	1.0	125.000	7.26941	86.2	33 - 134	0.537	20	
Molybdenum	108.459	1.0	125.000	0.481977	86.4	62 - 108	1.50	20	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova , CA 95742

Project Number : ALBION RIVER, S9805-01-36
 Report To : John Juhrend
 Reported : 10/10/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B4J0217 - EPA 3050B (continued)

Matrix Spike Dup (B4J0217-MSD1) - Continued

Source: 1402933-01

Prepared: 10/9/2014 Analyzed: 10/9/2014

Nickel	128.127	1.0	125.000	18.4639	87.7	42 - 127	2.05	20	
Selenium	108.525	1.0	125.000	ND	86.8	58 - 105	1.77	20	
Silver	111.388	1.0	125.000	ND	89.1	63 - 113	2.70	20	
Thallium	96.2000	1.0	125.000	ND	77.0	53 - 110	1.78	20	
Vanadium	151.686	1.0	125.000	36.5389	92.1	66 - 112	3.58	20	
Zinc	154.488	1.0	125.000	44.2988	88.2	28 - 137	42.2	20	R



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : ALBION RIVER, S9805-01-36
 Report To : John Juhrend
 Reported : 10/10/2014

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4J0219 - EPA 7471									
Blank (B4J0219-BLK1)				Prepared: 10/9/2014 Analyzed: 10/9/2014					
Mercury	ND	0.10			NR				
LCS (B4J0219-BS1)				Prepared: 10/9/2014 Analyzed: 10/9/2014					
Mercury	0.814079	0.10	0.833333		97.7	80 - 120			
Duplicate (B4J0219-DUP1)				Source: 1402933-01 Prepared: 10/9/2014 Analyzed: 10/9/2014					
Mercury	0.036440	0.10		0.041876	NR		13.9	20	
Matrix Spike (B4J0219-MS1)				Source: 1402933-01 Prepared: 10/9/2014 Analyzed: 10/9/2014					
Mercury	0.844578	0.10	0.833333	0.041876	96.3	70 - 130			
Matrix Spike Dup (B4J0219-MSD1)				Source: 1402933-01 Prepared: 10/9/2014 Analyzed: 10/9/2014					
Mercury	0.864655	0.10	0.833333	0.041876	98.7	70 - 130	2.35	20	
Post Spike (B4J0219-PS1)				Source: 1402933-01 Prepared: 10/9/2014 Analyzed: 10/9/2014					
Mercury	6.0302E-3		5.00000E-3	0.000503	111	85 - 115			



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : ALBION RIVER, S9805-01-36

Report To : John Juhrend

Reported : 10/10/2014

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.



November 03, 2014

John Juhrend
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax:(916) 852-9132

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1402935
Client Reference : SALMON CREEK, S9805-01-35

Enclosed are the results for sample(s) received on October 03, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read 'E. Rodriguez', is written over a light gray rectangular background.

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 11/03/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SC2-0	1402935-04	Soil	9/29/14 13:20	10/03/14 8:45
SC3-0	1402935-07	Soil	9/29/14 13:40	10/03/14 8:45
SC13-0	1402935-37	Soil	9/30/14 7:55	10/03/14 8:45
SC22-0	1402935-62	Soil	9/30/14 10:40	10/03/14 8:45



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 11/03/2014

TCLP Metals by ICP-AES EPA 6010B

Analyte: Lead

Analyst: CB

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1402935-04	SC2-0	1.2	mg/L	0.050	1	B4J0850	10/31/2014	10/31/14 17:29	
1402935-07	SC3-0	0.46	mg/L	0.050	1	B4J0850	10/31/2014	10/31/14 17:38	
1402935-37	SC13-0	0.41	mg/L	0.050	1	B4J0850	10/31/2014	10/31/14 17:41	
1402935-62	SC22-0	0.49	mg/L	0.050	1	B4J0850	10/31/2014	10/31/14 17:43	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35
 Report To : John Juhrend
 Reported : 11/03/2014

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4J0850 - EPA 3010A_SOIL									
Blank (B4J0850-BLK1)					Prepared: 10/31/2014 Analyzed: 10/31/2014				
Lead	ND	0.050					NR		
Blank (B4J0850-BLK2)					Prepared: 10/31/2014 Analyzed: 10/31/2014				
Lead	ND	0.050					NR		
LCS (B4J0850-BS1)					Prepared: 10/31/2014 Analyzed: 10/31/2014				
Lead	0.963356	0.050	1.00000		96.3	80 - 120			
Duplicate (B4J0850-DUP1)					Prepared: 10/31/2014 Analyzed: 10/31/2014				
Lead	1.26539	0.050		1.16267	NR		8.46	20	
Duplicate (B4J0850-DUP2)					Prepared: 10/31/2014 Analyzed: 10/31/2014				
Lead	ND	0.050		ND	NR			20	
Matrix Spike (B4J0850-MS1)					Prepared: 10/31/2014 Analyzed: 10/31/2014				
Lead	3.45325	0.050	2.50000	1.16267	91.6	77 - 121			
Matrix Spike Dup (B4J0850-MSD1)					Prepared: 10/31/2014 Analyzed: 10/31/2014				
Lead	3.54586	0.050	2.50000	1.16267	95.3	77 - 121	2.65	20	



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 11/03/2014

Notes and Definitions

ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

Diane Galvan

From: John Juhrend [juhrend@geoconinc.com]
Sent: Monday, October 27, 2014 7:22 AM
To: Diane Galvan
Cc: Gemma Reblando
Subject: FW: Additional Results/EDD/Invoice - SALMON CREEK (1402935)
Attachments: 1402935add1.pdf

Hi Diane – please analyze following for TCLP soluble lead under 5-day TAT:

ATL #1402935:

04
07
37
62

Please reply and confirm - thanks!

John



John Juhrend, PE, CEG, CEM | *Principal / Senior Engineer*
Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800, Rancho Cordova, CA 95742
Tel 916.852.9118, ext. 501 Mobile 916.508.1911
www.geoconinc.com



November 17, 2014

John Juhrend
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax:(916) 852-9132

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1402935
Client Reference : SALMON CREEK, S9805-01-35

Enclosed are the results for sample(s) received on October 03, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read 'E. Rodriguez', is written over a light gray rectangular background.

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 11/17/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SC3-0	1402935-07	Soil	9/29/14 13:40	10/03/14 8:45
SC4-2	1402935-12	Soil	9/29/14 14:10	10/03/14 8:45
SC6-1	1402935-17	Soil	9/29/14 14:45	10/03/14 8:45
SC9-0	1402935-25	Soil	9/29/14 15:40	10/03/14 8:45
SC12-2	1402935-36	Soil	9/30/14 7:49	10/03/14 8:45
SC14-1	1402935-41	Soil	9/30/14 8:02	10/03/14 8:45
SC20-0	1402935-56	Soil	9/30/14 10:15	10/03/14 8:45
SC21-2	1402935-61	Soil	9/30/14 10:29	10/03/14 8:45
SC23-1	1402935-66	Soil	9/30/14 10:52	10/03/14 8:45

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 11/17/2014

SPLP Metals by ICP-AES by EPA 6010B

Analyte: Lead

Analyst: CB

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1402935-07	SC3-0	0.14	mg/L	0.050	0.0014	1	B4K0147	11/07/2014	11/07/14 15:44	
1402935-12	SC4-2	0.0089	mg/L	0.050	0.0014	1	B4K0147	11/07/2014	11/07/14 15:52	J
1402935-17	SC6-1	0.15	mg/L	0.050	0.0014	1	B4K0147	11/07/2014	11/07/14 15:54	
1402935-25	SC9-0	0.10	mg/L	0.050	0.0014	1	B4K0147	11/07/2014	11/07/14 15:56	
1402935-36	SC12-2	0.021	mg/L	0.050	0.0014	1	B4K0147	11/07/2014	11/07/14 16:02	J
1402935-41	SC14-1	0.033	mg/L	0.050	0.0014	1	B4K0147	11/07/2014	11/07/14 16:04	J
1402935-56	SC20-0	0.16	mg/L	0.050	0.0014	1	B4K0147	11/07/2014	11/07/14 16:06	
1402935-61	SC21-2	0.0098	mg/L	0.050	0.0014	1	B4K0147	11/07/2014	11/07/14 16:08	J
1402935-66	SC23-1	0.34	mg/L	0.050	0.0014	1	B4K0147	11/07/2014	11/07/14 16:09	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova , CA 95742

Project Number : SALMON CREEK, S9805-01-35
 Report To : John Juhrend
 Reported : 11/17/2014

QUALITY CONTROL SECTION

SPLP Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4K0147 - EPA 3010A_S									
Blank (B4K0147-BLK1)					Prepared: 11/7/2014 Analyzed: 11/7/2014				
Lead	ND	0.050							NR
Blank (B4K0147-BLK2)					Prepared: 11/7/2014 Analyzed: 11/7/2014				
Lead	ND	0.050							NR
LCS (B4K0147-BS1)					Prepared: 11/7/2014 Analyzed: 11/7/2014				
Lead	1.04150	0.050	1.00000		104	80 - 120			
Duplicate (B4K0147-DUP1)					Prepared: 11/7/2014 Analyzed: 11/7/2014				
Lead	0.124852	0.050		0.143899	NR		14.2	20	
Matrix Spike (B4K0147-MS1)					Prepared: 11/7/2014 Analyzed: 11/7/2014				
Lead	2.72429	0.050	2.50000	0.143899	103	77 - 121			
Matrix Spike Dup (B4K0147-MSD1)					Prepared: 11/7/2014 Analyzed: 11/7/2014				
Lead	2.81659	0.050	2.50000	0.143899	107	77 - 121	3.33	20	



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : SALMON CREEK, S9805-01-35

Report To : John Juhrend

Reported : 11/17/2014

Notes and Definitions

J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

Diane Galvan

From: Gemma Reblando [reblando@geoconinc.com]
Sent: Tuesday, November 04, 2014 4:14 PM
To: Diane Galvan
Cc: John Juhrend
Subject: RE: Additional Results/EDD/Invoice - SALMON CREEK (1402935)

Hi Diane – please analyze following samples for SPLP soluble lead under 5-day TAT:

ATL #1402935:

07
12
17
25
36
41
56
61
66

Thanks,
Gemma



Gemma Reblando | *Project Geologist*
Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800, Rancho Cordova, CA 95742
Tel 916.852.9118 Fax 916.852.9132 Cell 916.396.8476
<http://www.geoconinc.com>

Diane Galvan

From: Gemma Reblando [reblando@geoconinc.com]
Sent: Monday, November 17, 2014 2:08 PM
To: Diane Galvan
Subject: 1402935 SPLP Results - Salmon Creek, S9805-01-35

Hi Diane – we'd like to request ATL to quantify (with a J flag) the SPLP results for the four samples that were reported as 'ND'.

Thanks,
Gemma



Gemma Reblando | *Project Geologist*
Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800, Rancho Cordova, CA 95742
Tel 916.852.9118 Fax 916.852.9132 Cell 916.396.8476
<http://www.geoconinc.com>



January 05, 2015

John Juhrend
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax:(916) 852-9132

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1404107
Client Reference : Salmon Creek PSI, S9805-01-35

Enclosed are the results for sample(s) received on December 26, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read 'Eddie Rodriguez', with a small 'Er' monogram below it.

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : Salmon Creek PSI, S9805-01-35

Report To : John Juhrend

Reported : 01/05/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SCHP1	1404107-01	Groundwater	12/23/14 11:55	12/26/14 9:05
SCHP2	1404107-02	Groundwater	12/23/14 12:30	12/26/14 9:05
SC24-0	1404107-03	Soil	12/23/14 13:05	12/26/14 9:05
SC24-1	1404107-04	Soil	12/23/14 13:07	12/26/14 9:05
SC25-0	1404107-05	Soil	12/23/14 13:20	12/26/14 9:05
SC25-1	1404107-06	Soil	12/23/14 13:22	12/26/14 9:05
SC26-0	1404107-07	Soil	12/23/14 13:30	12/26/14 9:05
SC26-1	1404107-08	Soil	12/23/14 13:32	12/26/14 9:05
SC27-0	1404107-09	Soil	12/23/14 13:40	12/26/14 9:05
SC27-1	1404107-10	Soil	12/23/14 13:42	12/26/14 9:05
SC28-0	1404107-11	Soil	12/23/14 13:50	12/26/14 9:05
SC28-1	1404107-12	Soil	12/23/14 13:52	12/26/14 9:05
CO	1404107-13	Water	12/23/14 14:20	12/26/14 9:05



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova , CA 95742

Project Number : Salmon Creek PSI, S9805-01-35
 Report To : John Juhrend
 Reported : 01/05/2015

Lead by ICP-AES EPA 6010B

Analyte: Lead

Analyst: RR

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1404107-03	SC24-0	23	mg/kg	1.0	1	B4L0813	12/31/2014	01/02/15 12:13	
1404107-04	SC24-1	140	mg/kg	1.0	1	B4L0813	12/31/2014	01/02/15 12:13	
1404107-05	SC25-0	64	mg/kg	0.99	1	B4L0813	12/31/2014	01/02/15 12:14	
1404107-06	SC25-1	26	mg/kg	1.0	1	B4L0813	12/31/2014	01/02/15 12:15	
1404107-07	SC26-0	440	mg/kg	1.0	1	B4L0813	12/31/2014	01/02/15 12:16	
1404107-08	SC26-1	99	mg/kg	1.0	1	B4L0813	12/31/2014	01/02/15 12:16	
1404107-09	SC27-0	240	mg/kg	1.0	1	B4L0813	12/31/2014	01/02/15 12:17	
1404107-10	SC27-1	69	mg/kg	1.0	1	B4L0813	12/31/2014	01/02/15 12:20	
1404107-11	SC28-0	2.6	mg/kg	1.0	1	B4L0813	12/31/2014	01/02/15 12:35	
1404107-12	SC28-1	4.3	mg/kg	1.0	1	B4L0813	12/31/2014	01/02/15 12:21	

Lead by ICP-AES EPA 6010B

Analyte: Lead

Analyst: RR

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1404107-01	SCHP1	0.13	mg/L	0.025	5	B4L0783	12/30/2014	12/30/14 13:35	D1
1404107-02	SCHP2	0.52	mg/L	0.025	5	B4L0783	12/30/2014	12/30/14 13:38	D1
1404107-13	CO	ND	mg/L	0.0050	1	B4L0783	12/30/2014	12/30/14 13:40	



Certificate of Analysis

Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : Salmon Creek PSI, S9805-01-35
 Report To : John Juhrend
 Reported : 01/05/2015

QUALITY CONTROL SECTION

Lead by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0783 - EPA 3010A_W									
Blank (B4L0783-BLK1)					Prepared: 12/30/2014 Analyzed: 12/30/2014				
Lead	ND	0.0050							NR
LCS (B4L0783-BS1)					Prepared: 12/30/2014 Analyzed: 12/30/2014				
Lead	0.915284	0.0050	1.00000		91.5	80 - 120			
Duplicate (B4L0783-DUP1)					Source: 1404107-13 Prepared: 12/30/2014 Analyzed: 12/30/2014				
Lead	0.003868	0.0050		ND	NR			20	
Matrix Spike (B4L0783-MS1)					Source: 1404107-13 Prepared: 12/30/2014 Analyzed: 12/30/2014				
Lead	2.37403	0.0050	2.50000	ND	95.0	77 - 121			
Matrix Spike Dup (B4L0783-MSD1)					Source: 1404107-13 Prepared: 12/30/2014 Analyzed: 12/30/2014				
Lead	2.40404	0.0050	2.50000	ND	96.2	77 - 121	1.26	20	
Batch B4L0813 - EPA 3050 Modified_S									
Blank (B4L0813-BLK1)					Prepared: 12/31/2014 Analyzed: 1/2/2015				
Lead	ND	1.0							NR
Blank (B4L0813-BLK2)					Prepared: 12/31/2014 Analyzed: 1/2/2015				
Lead	ND	1.0							NR
LCS (B4L0813-BS1)					Prepared: 12/31/2014 Analyzed: 1/2/2015				
Lead	48.0576	1.0	50.0000		96.1	80 - 120			
Duplicate (B4L0813-DUP1)					Source: 1404128-10 Prepared: 12/31/2014 Analyzed: 1/2/2015				
Lead	3.31350	1.0		6.72005	NR		67.9	20	R
Duplicate (B4L0813-DUP2)					Source: 1404107-12 Prepared: 12/31/2014 Analyzed: 1/2/2015				
Lead	4.22511	1.0		4.27333	NR		1.13	20	
Matrix Spike (B4L0813-MS1)					Source: 1404128-10 Prepared: 12/31/2014 Analyzed: 1/2/2015				
Lead	193.500	1.0	250.000	6.72005	74.7	33 - 134			
Matrix Spike (B4L0813-MS2)					Source: 1404107-12 Prepared: 12/31/2014 Analyzed: 1/2/2015				
Lead	193.013	1.0	250.000	4.27333	75.5	33 - 134			
Matrix Spike Dup (B4L0813-MSD1)					Source: 1404128-10 Prepared: 12/31/2014 Analyzed: 1/2/2015				
Lead	204.663	1.0	250.000	6.72005	79.2	33 - 134	5.61	20	



Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : Salmon Creek PSI, S9805-01-35

Report To : John Juhrend

Reported : 01/05/2015

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 Tel: (562) 989-4045 • Fax: (562) 989-4040

FOR LABORATORY USE ONLY

Method of Transport: CHILLED N 4. SEALED Y N

Sample Condition Upon Receipt: N 4. SEALED Y N

1. CHILLED Y N 4. SEALED Y N

2. HEADSPACE (VOA) N 5. # OF SPLS MATCH COC Y N

3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: Geocon Inc.
 Attention: J. Juhrend
 Project Name: Salmon Creek PSI

Address: 3160 Gold Valley Dr #800
 City: Rancho Cordova State: CA Zip Code: 95742
 Sampler: Mike O'Brien

Project #: S9805-01-35
 Date: 12/24/14 Time: 1100
 Received by: (Signature and Printed Name) *[Signature]* Date: 12/24/14 Time: 1100

Date: 12/24/14 Time: 1100
 Received by: (Signature and Printed Name) *[Signature]* Date: 12/24/14 Time: 1100

Date: 12/24/14 Time: 1100
 Received by: (Signature and Printed Name) *[Signature]* Date: 12/24/14 Time: 1100

Relinquished by: (Signature and Printed Name) *[Signature]* Date: 12/24/14 Time: 1100

Relinquished by: (Signature and Printed Name) *[Signature]* Date: 12/24/14 Time: 1100

Relinquished by: (Signature and Printed Name) *[Signature]* Date: 12/24/14 Time: 1100

I hereby authorize ATL to perform the work indicated below:
 Project Mgr /Submitter: M. O'Brien
 Print Name: _____ Date: _____
 Signature: _____ City: _____ State: _____ Zip: _____

Send Report To: _____
 Attn: See Above
 Co: _____
 Addr: _____ City: _____ State: _____ Zip: _____

Bill To: _____
 Attn: See Above
 Co: _____
 Addr: _____ City: _____ State: _____ Zip: _____

Special Instructions/Comments:
 CalTrans Contract # 03A2132
 Please send EDF and EXCEL to cook@geoconinc.com

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
 Storage Fees (applies when storage is requested):
 Sample: \$2.00 / sample /mo (after 45 days)
 Records: \$1 /ATL workorder /mo (after 1 year)

LAB USE ONLY:	Sample ID / Location	Date	Time
1	1404107-1	12/23/14	1155
2	SCHP2		1230
3	SC24-0		1305
4	SC24-1		1307
5	SC25-0		1320
5	SC25-1		1322
7	SC26-0		1330
8	SC26-1		1332
9	SC27-0		1340
10	SC27-1		1342

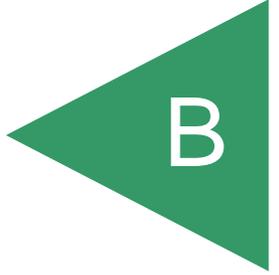
Circle or Add Analysis(es) Requested

Analysis	8081 (Pesticides)	8082 (PCB)	8200 (Volatiles)	8270C (BNA)	8010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TTLE 22 / CAM 17 (6010 / 7000)	Total Lead	pH	SOIL	WATER	GROUND WATER	WASTEWATER
8081 (Pesticides)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
8082 (PCB)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8200 (Volatiles)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8010B (Total Metal)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8015B (GRO) / 8020 (BTEX)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8015B (DRO)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8021 (BTEX)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TTLE 22 / CAM 17 (6010 / 7000)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Lead	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SOIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WATER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GROUND WATER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WASTEWATER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Container Types: T=Tube V=VOA L=Liter P=Pin P=Plastic M=Metal

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

APPENDIX



Project Name: Salmon Creek Bridge Replacement Project
Geocon Project No.: S9805-01-35
Sample Population: Borings SC1 through SC28

Lead - 0.0 to 1.0 ft

Total Number of Observations	28	Number of Distinct Observations	24
		Number of Missing Observations	0
Minimum	2.6	Mean	304.6
Maximum	1300	Median	240
SD	280.6	Std. Error of Mean	53.02
Coefficient of Variation	0.921	Skewness	1.875
Mean of logged data	5.197	SD of logged data	1.287
		90% Standard Bootstrap UCL	370.4
		95% Standard Bootstrap UCL	389.5

Lead - 1.0 to 2.0 ft

Total Number of Observations	28	Number of Distinct Observations	25
		Number of Missing Observations	0
Minimum	4.3	Mean	127.9
Maximum	730	Median	98
SD	147.3	Std. Error of Mean	27.83
Coefficient of Variation	1.152	Skewness	2.917
Mean of logged data	4.337	SD of logged data	1.128
		90% Standard Bootstrap UCL	161.9
		95% Standard Bootstrap UCL	171.7

Lead - 2.0 to 3.0 ft

Total Number of Observations	21	Number of Distinct Observations	16
		Number of Missing Observations	0
Minimum	6.7	Mean	26.7
Maximum	69	Median	22
SD	15.08	Std. Error of Mean	3.291
Coefficient of Variation	0.565	Skewness	1.426
Mean of logged data	3.149	SD of logged data	0.534
		90% Standard Bootstrap UCL	30.9
		95% Standard Bootstrap UCL	31.9