APPENDIX V

ADL SITE INVESTIGATION REPORT

GEOCON
WEST, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. A9241-77-01
July 31, 2015

Ms. Beth Overstreet
City of Torrance
Public Works Department/Engineering Division
20500 Mardrona Avenue
Torrance, California 90503

Subject: AERIALLY DEPOSITED LEAD SITE INVESTIGATION REPORT
PACIFIC COAST HIGHWAY, BETWEEN CALLE MAYOR AND JANET LANE
TORRANCE, CALIFORNIA

Dear Ms. Overstreet:

In accordance with your request, on behalf of the City of Torrance (the City), we performed an aerially-deposited lead (ADL) site investigation within the exposed soil along the southern shoulder of Pacific Coast Highway between Calle Mayor and Janet Lane in the City of Torrance, California. The accompanying report summarizes the services performed including the excavation of 15 hand-auger borings for the collection of soil samples for aerially deposited 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 WEST, INC.

PROFESSIONAL GEOLOGIST
MICHAEL P. CONKLE
No. 7624
STATE OF CALIFORNIA

Gemma G. Reblando
Project Geologist

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Senior Geologist

(3 + 1 CD) Addressee

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AERIALLY DEPOSITED LEAD SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Aerially Deposited Lead (ADL) Site Investigation Report for the Pacific Coast Highway (PCH) Between Calle Mayor and Janet Lane Project was prepared by Geocon Consultants, Inc. for the City of Torrance (the City) in accordance with the requirements of the California Department of Transportation (Caltrans).

1.1 Project Description and Proposed Improvements

The project area consists of Caltrans right-of-way (ROW) along the southbound shoulder of PCH between Calle Mayor and Janet Lane in the City of Torrance, Los Angeles County, California. The approximate project location is depicted on the attached Vicinity Map, Figure 1, and Site Plans, Figures 2-1 through 2-5.

The City intends to install new fencing, guardrail, landscaping, and irrigation systems within the raised island adjacent to the southbound shoulder of PCH between Calle Mayor and Janet Lane (approximately 2,850 feet). The excavation limits for the proposed improvements extend approximately 10 feet into the raised island from the curb face. The maximum depth of the planned excavations is 3 feet. It is estimated that less than 3,000 cubic yards of soil will be excavated for the proposed improvements.

1.2 Purpose of Investigation

The purpose of the investigation is to evaluate the concentrations of ADL in soil that will be disturbed during construction of the proposed improvements. The investigative results will be used by the City to develop soil management and disposal options and to inform construction contractors if ADL-impacted soil is present within the project boundaries at levels of concern for construction worker health and safety purposes.

2.0 BACKGROUND

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.

2.1 Potential Lead Soil Impacts

Ongoing testing by Caltrans has indicated that ADL exists along major freeway routes due to emissions from vehicles powered by leaded gasoline.

2.2 Hazardous Waste Determination Criteria

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. The 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 lead exceeding 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 (AOC) does not constitute "land disposal" and, thus, does not trigger hazardous waste disposal requirements." Therefore, lead-impacted soil that is scarified in-place, moisture-conditioned, and re-compacted during improvement activities might not be considered a "waste." 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 lead-impacted soil.

Soil that is removed from its AOC and that is classified as either "California hazardous" or "RCRA hazardous," requires management as a hazardous waste and disposal at an appropriately permitted disposal facility.

3.0 SCOPE OF SERVICES

The scope of services requested by the City included the collection of soil samples for laboratory analysis to determine lead content in soil and the preparation of this report.

3.1 Pre-field Activities

- Conducted a site visit on June 16, 2015, to observe the project boundaries and conditions. The project limits were further outlined in white paint for subsequent utility clearance.
- Prepared a *Workplan* dated April 7, 2015, which described the requested scope of services and quality assurance/quality control (QA/QC) sampling and laboratory procedures.
- Prepared a *Health and Safety Plan* dated May 2015 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.
- Retained the services of Advanced Technologies Laboratories (ATL), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of soil samples.

3.2 Field Activities

On June 19, 2015, 60 soil samples were collected from 15 hand-auger borings advanced at the Site. The approximate boring locations are depicted on Figures 2-1 through 2-5. The soil borings were advanced to a maximum sampling depth of 3.0 feet. Soil samples were collected at depth intervals of 0.0 to 0.5 foot, 0.5 to 1.0 foot, 1.5 to 2.0 feet, and 2.5 to 3.0 feet.

The sample locations were selected prior to the field sampling activities by Geocon and/or the City's Project Manager based on the proposed roadway improvement design. Following sample collection, the borings were backfilled with excess soil cuttings. Details of the field activities are presented in the following sections.

4.0 INVESTIGATIVE METHODS

4.1 Soil Sampling Procedures

Soil samples were collected using a hand-auger and transferred directly from the hand-auger to Ziploc® re-sealable plastic bags for field homogenization. Soil collected for laboratory analysis was removed from the bottom portion of the hand-auger bucket to minimize the potential of mixing "*sluff*" that might have fallen into the borehole with the sample. The homogenized soil was then transferred from the re-sealable bags to laboratory-provided glass jars with Teflon-lined lids. The sample jars were subsequently labeled and placed in a cooler and transported to ATL for chemical analyses under chain-of-custody (COC) procedures. Soil types were noted on the daily field log.

The coordinates of the boring locations were determined using a global positioning system (GPS). The GPS was utilized during the field activities to determine the horizontal position using the latitude-longitude coordinate system of the boring locations with an error of no more than 3.3 feet. The latitude and longitude of the boring locations are summarized in Table 1.

4.2 Equipment Blank Sampling

Three equipment blank samples were collected (one for approximately every 20 soil samples) to verify proper cleaning of the sampling equipment. The equipment blank samples were obtained by passing distilled water over the decontaminated sampling equipment and into unpreserved laboratory-provided containers.

4.3 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 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. The decontamination water was discharged to the ground surface within the Caltrans ROW, away from the roadway and storm drain inlets.

4.4 Laboratory Analyses

4.4.1 ADL Soil Samples

The soil samples were analyzed under standard turnaround time (TAT) for the following analyses. The laboratory was instructed to homogenize the soil samples prior to analysis in accordance with Caltrans requirements.

- Each soil sample was analyzed for total lead following Environmental Protection Agency (EPA) Test Method 6010B.
- Thirty-one soil samples with total lead concentrations greater than or equal to 50 mg/kg (ten times the lead STLC) were further analyzed for soluble lead using the WET method and EPA Test Method 6010B.
- Sixteen soil samples with total lead concentrations greater than or equal to 100 mg/kg (20 times the Federal RCRA hazardous waste threshold) were analyzed for TCLP soluble lead using EPA Test Method 6010B.
- Six soil samples selected at random were analyzed for soil pH using EPA Test Method 9045C.
- Three equipment blank samples were analyzed for total lead by EPA Test Method 6010B.

4.4.2 Laboratory QA/QC Procedures

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. Copies of the laboratory reports and COC documentation are in Appendix A.

4.5 Traffic Control

Geocon provided traffic control signs and orange cones during the field sampling activities.

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Soil Description

Soil encountered during the excavation of borings generally consisted of gray-brown silty fine to medium-grained sand to the maximum sampling depth of 3.0 feet. No indicators (visual or olfactory) of apparent contamination were observed. Groundwater was not encountered in the soil borings.

5.2 Analytical Results

Total lead was detected in the 60 soil samples at concentrations ranging from 1.6 to 1,200 mg/kg. Thirty-one of the 60 soil samples had reported total lead concentrations greater than 50 mg/kg (ten times the STLC for lead of 5.0 mg/l) and were further analyzed for WET soluble lead. Sixteen soil samples with total lead concentrations greater than 100 mg/kg (20 times the Federal RCRA hazardous waste threshold of 5.0 mg/l) were further analyzed for TCLP soluble lead.

WET soluble lead was detected in 29 of the 31 soil samples analyzed at concentrations ranging from 2.0 to 35 mg/l.

TCLP soluble lead was detected in 15 of the 16 soil samples analyzed at concentrations ranging from 0.16 to 0.98 mg/l, less than the Federal RCRA threshold value of 5.0 mg/l.

Soil pH for the six soil samples analyzed ranged from 5.2 to 6.7.

Lead was not reported for the three equipment blank samples at concentrations equal to or greater than the laboratory reporting limit of 0.0050 mg/l.

A summary of the soil ADL analytical results are presented on Table 1. Copies of the ATL laboratory reports and COC documentation are in Appendix A.

5.3 Field and Laboratory QA/QC

Geocon and ATL use QA/QC measures to minimize and control errors associated with field and laboratory methods. Field QA/QC measures consist of cleaning sampling equipment between each use with a detergent solution followed by tap and distilled/purified water rinses. Based on the equipment blank sample analytical results, it appears that the field investigation was free from potential cross-contamination resulting from inadequate equipment decontamination.

We reviewed the QA/QC provided with the ATL laboratory report. The relative percent differences for some sample duplicates were outside acceptance criteria. Calculation is based on raw values as noted in the laboratory report. Matrix spike recovery was outside acceptance limit. The analytical batch was validated by the laboratory control sample. Based on the laboratory QA/QC data, no qualification of the data presented herein is necessary, and the data are of sufficient quality for the purposes of this report.

5.4 Statistical Evaluation for Lead Detected in Soil Samples

Statistical methods were applied to the total lead data to evaluate: 1) the upper confidence limits (UCLs) of the arithmetic means of the total lead concentrations for each sampling depth; and 2) if an acceptable correlation between total and WET lead concentrations exists that would allow the prediction of WET lead concentrations based on calculated UCLs. The total lead data were treated as one sample population for statistical evaluation.

5.4.1 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	422.5	447.5	329.3	66	1,200
0.5 to 1.0	159.4	169.7	121.7	8.2	450
1.5 to 2.0	30.0	31.9	22.6	2.7	89
2.5 to 3.0	28.9	30.4	22.6	1.6	68

5.4.2 Correlation of Total and Soluble Lead

Total and corresponding WET lead concentrations are bivariate data with a linear structure. This linear structure should allow for the prediction of WET lead concentrations based on the calculated total lead UCLs presented in Section 5.4.1.

To estimate the degree of interrelation between total and corresponding WET lead values (x and y, respectively), the *correlation coefficient [r]* is used. The correlation coefficient is a ratio that ranges from +1 to –1. A *correlation coefficient* of +1 indicates a perfect direct relationship between two variables; a *correlation coefficient* of –1 indicates that one variable changes inversely with relation to the other. Between the two extremes is a spectrum of less-than-perfect relationships, including zero, which indicates the lack of any sort of linear relationship at all.

The *correlation coefficient* was calculated for the 31 (x, y) data points (i.e., soil samples analyzed for both total lead [x] and WET soluble lead [y]). A *correlation coefficient* greater than or equal to 0.8 is an acceptable indicator that a correlation exists. Consequently, an acceptable correlation between total and soluble lead concentrations could not be established for the data points since the *correlation coefficient* is less than 0.8. To achieve an acceptable correlation for the data population, the total and WET soluble lead data for sample B8-0.0 (1,200, 0.5) were excluded from the regression analysis. The excluded total and WET soluble lead data have the highest squared residual WET soluble lead value (Appendix B). Consequently, excluding this data point from the regression yields an acceptable *correlation coefficient* of 0.9610.

For the *correlation coefficient* that indicates a linear relationship between total and WET soluble lead concentrations, it is possible to compute the line of dependence or a best-fit line between the two variables. A least squares method was used to find the equation of a best-fit line (regression line) by forcing the y-intercept equal to zero since that is a known point. The equation of the regression line was determined to be $y = 0.0568(x)$, where x represents total lead concentrations and y represents predicted WET soluble lead concentrations.

This equation was used to estimate the expected WET lead concentrations for the total lead UCLs for the data set (Section 5.4.1). Regression analysis results and a scatter plot depicting the (x, y) data points along with the regression line are included in Appendix B. The 90% and 95% UCL-predicted WET soluble lead concentrations are presented in Section 6.0.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Hazardous waste classification based on the 90% UCL is considered sufficient to satisfy a good faith effort as discussed in SW-846. Risk assessment characterization is typically based on the 95% UCL in accordance with the *Risk Assessment Guidance for Superfund (RAGS) Volume 1 Documentation for Exposure Assessment*. Per Caltrans, 90% UCLs are to be used to evaluate onsite reuse, and 95% UCLs are to be used to evaluate offsite reuse or disposal.

6.1 ADL Soil/Waste Classifications

Total lead was detected in the soil samples at concentrations ranging from 1.6 to 1,200 mg/kg. The table below summarizes the excavation scenarios, the weighted average based on the calculated total lead UCLs, and the waste classification for excavated soil within the project limits as represented by borings B1 through B15.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	95% UCL Predicted WET Lead (mg/l)	Waste Classification
0.0 to 0.5 foot	422.5	24.0	447.5	25.4	Hazardous
Underlying Soil (0.5 to 3.0 feet)	81.5	4.6	86.7	4.9	Non-hazardous
0.0 to 1.0 foot	291.0	16.5	308.6	17.5	Hazardous
Underlying Soil (1.0 to 3.0 feet)	62.1	3.5	66.0	3.7	Non-hazardous
0.0 to 1.5 feet	247.1	14.0	262.3	14.9	Hazardous
Underlying Soil (1.5 to 3.0 feet)	29.6	1.7	31.4	1.8	Non-hazardous
0.0 to 2.0 feet	192.8	11.0	204.7	11.6	Hazardous
Underlying Soil (2.0 to 3.0 feet)	29.5	1.7	31.2	1.8	Non-hazardous
0.0 to 2.5 feet	160.3	9.1	170.1	9.7	Hazardous
Underlying Soil (2.5 to 3.0 feet)	28.9	1.6	30.4	1.7	Non-hazardous
0.0 to 3.0 feet	138.4	7.9	146.9	8.3	Hazardous

90% UCL applicable for waste classification and onsite reuse; 95% UCL applicable for risk assessment and offsite disposal.
Predicted WET soluble lead was calculated using the equation of the regression line: $y = 0.0568x$

Assuming that excavations will extend to a depth of 3.0 feet, based upon the predicted WET lead concentrations, soil excavated to a depth of 0.5 foot would be classified as a hazardous waste since the 90% UCL-predicted WET lead concentration is greater than the STLC for lead of 5.0 mg/l. The top 0.5 foot of excavated soil is not considered a RCRA hazardous waste based on the TCLP lead results. Soil excavated from the top 0.5 foot should be either (1) managed and disposed of as a California hazardous waste or (2) stockpiled and resampled to confirm waste classification in accordance with specific disposal facility acceptance criteria, if applicable.

Underlying soil (i.e., 0.5 to 3.0 feet) where excavated and managed separately could be reused or disposed of as non-hazardous soil with respect to lead content.

If excavations are not extending to a depth of 3.0 feet or greater, then the upper 1.5 feet of soil would be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentration is greater than the STLC for lead of 5.0 mg/l.

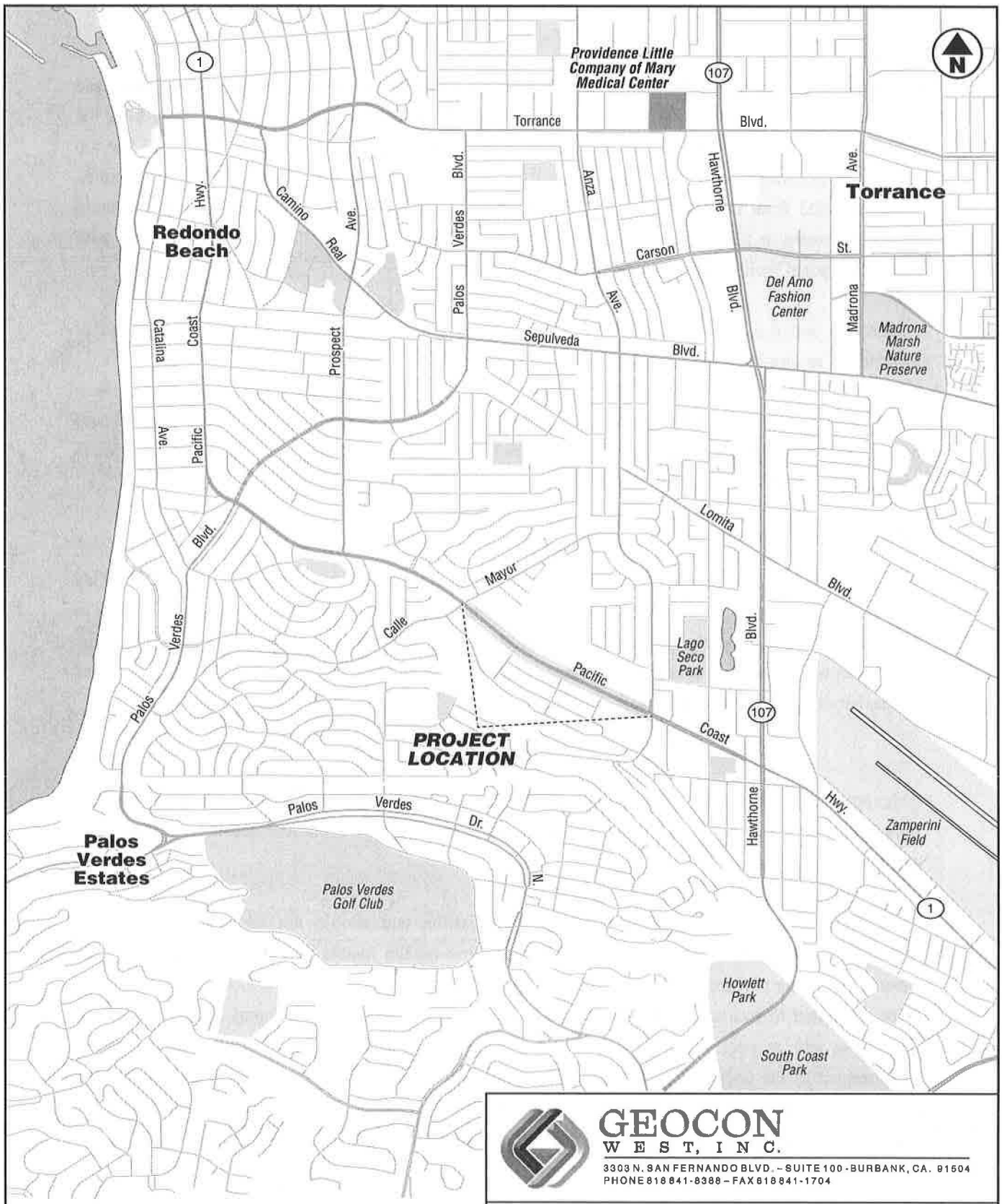
6.2 Worker Protection

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. 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-impacted soil.

7.0 REPORT LIMITATIONS

This report has been prepared exclusively for the City of Torrance. 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.



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PCH between Calle Mayor and Janet Lane – ADL Survey

Torrance, California

VICINITY MAP

A9241-77-01	July 2015	Figure 1

LEGEND:

- - - - - Approximate Limits of Soil Disturbance

⊗ Approximate Boring Location

Depth: depth of sample in feet
Tot. Pb: total lead results in milligrams per kilogram (mg/kg)
WET: WET soluble lead results in milligrams per liter (mg/l)
TCLP: TCLP soluble lead results in mg/l
<0.5: not detected at or above laboratory detection limit specified
--: analysis not performed

N

0 40
Scale in Feet

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PCH between Calle Mayor and Janet Lane – ADL Survey

Torrance, California

SITE PLAN

A9241-77-01	July 2015	Figure 2-1

Depth	Tot. Pb	WET	TCLP	pH
0.0-0.5'	370	22	0.31	--
0.5-1.0'	72	4.5	--	--
1.5-2.0'	22	--	--	--
2.5-3.0'	16	--	--	--

Depth	Tot. Pb	WET	TCLP	pH
0.0-0.5'	330	25	0.54	--
0.5-1.0'	120	7.2	0.17	--
1.5-2.0'	11	--	--	--
2.5-3.0'	20	--	--	--

Depth	Tot. Pb	WET	TCLP	pH
0.0-0.5'	90	3.9	--	--
0.5-1.0'	8.2	--	--	--
1.5-2.0'	11	--	--	--
2.5-3.0'	68	<1.0	--	--

Depth	Tot. Pb	WET	TCLP	pH
0.0-0.5'	230	14	0.17	--
0.5-1.0'	73	2.4	--	--
1.5-2.0'	13	--	--	--
2.5-3.0'	7.9	--	--	--

LEGEND:

- - - - - Approximate Limits of Soil Disturbance

⊗ Approximate Boring Location

Depth: depth of sample in feet
Tot. Pb: total lead results in milligrams per kilogram (mg/kg)
WET: WET soluble lead results in milligrams per liter (mg/l)
TCLP: TCLP soluble lead results in mg/l
<0.5: not detected at or above laboratory detection limit specified
-- : analysis not performed

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PCH between Calle Mayor and Janet Lane – ADL Survey

Torrance, California

SITE PLAN

A9241-77-01	July 2015	Figure 2-2

Depth	Tot. Pb	WET	TCLP	pH
0.0-0.5'	66	3.0	--	--
0.5-1.0'	20	--	--	--
1.5-2.0'	2.7	--	--	--
2.5-3.0'	1.6	--	--	--

Depth	Tot. Pb	WET	TCLP	pH
0.0-0.5'	1,200	<1.0	0.98	5.4
0.5-1.0'	250	13	0.84	--
1.5-2.0'	89	6.9	--	--
2.5-3.0'	56	3.0	--	--

Depth	Tot. Pb	WET	TCLP	pH
0.0-0.5'	91	7.0	--	--
0.5-1.0'	240	12	0.44	--
1.5-2.0'	35	--	--	--
2.5-3.0'	42	--	--	--

LEGEND:

- - - - - Approximate Limits of Soil Disturbance

Approximate Boring Location

Depth: depth of sample in feet
Tot. Pb: total lead results in milligrams per kilogram (mg/kg)
WET: WET soluble lead results in milligrams per liter (mg/l)
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<0.5: not detected at or above laboratory detection limit specified
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PCH between Calle Mayor and Janet Lane – ADL Survey

Torrance, California

SITE PLAN

A9241-77-01	July 2015	Figure 2-3

LEGEND:

- - - - - Approximate Limits of Soil Disturbance

⊗ Approximate Boring Location

Depth: depth of sample in feet
Tot. Pb: total lead results in milligrams per kilogram (mg/kg)
WET: WET soluble lead results in milligrams per liter (mg/l)
TCLP: TCLP soluble lead results in mg/l
<0.5: not detected at or above laboratory detection limit specified
-- : analysis not performed

N

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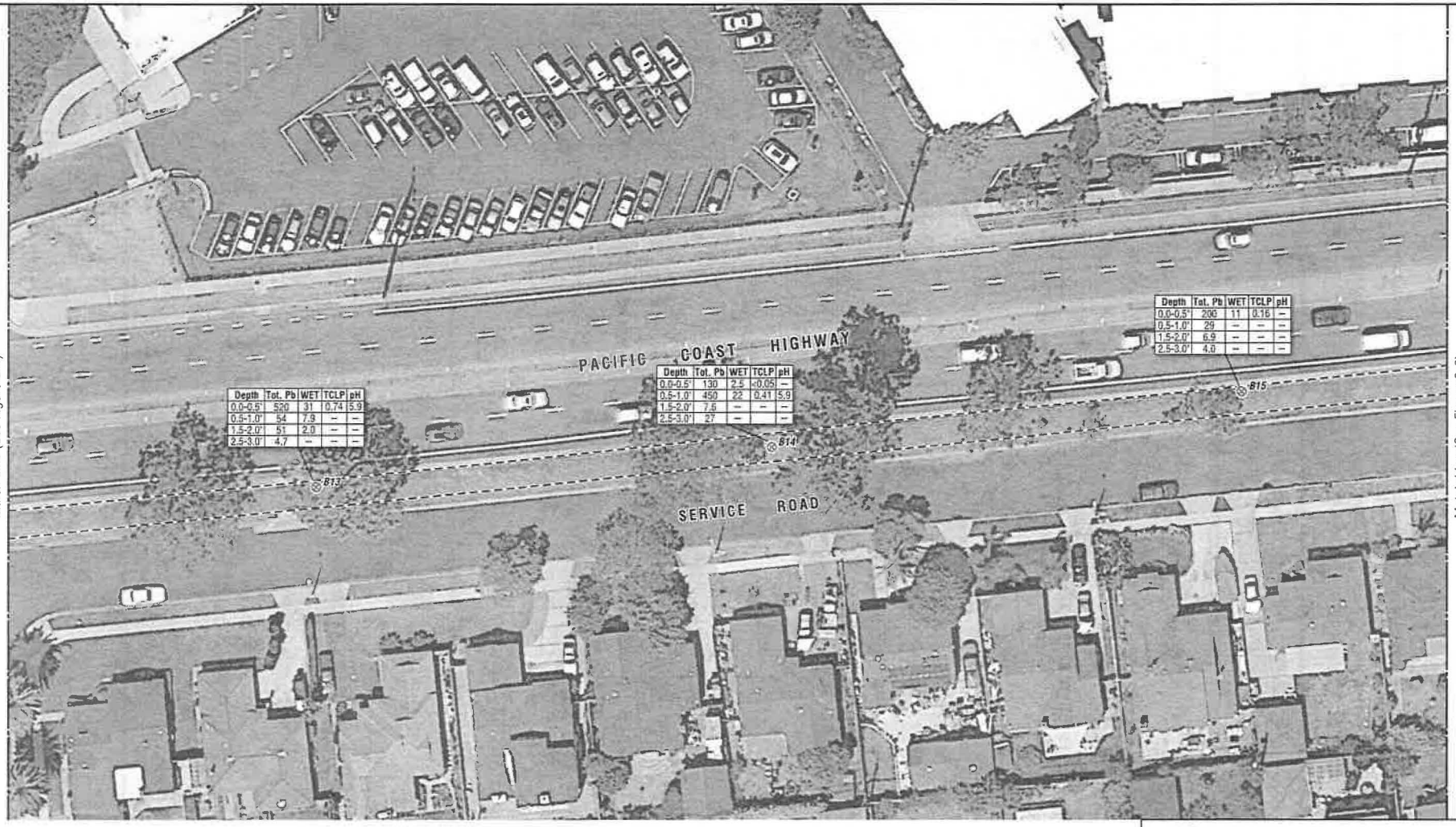
PCH between Calle Mayor and Janet Lane – ADL Survey

Torrance, California

SITE PLAN

A9241-77-01	July 2015	Figure 2-4



Depth	Tot. Pb	WET	TCLP	pH
0.0-0.5'	520	31	0.74	5.9
0.5-1.0'	54	7.9	--	--
1.5-2.0'	51	2.0	--	--
2.5-3.0'	4.7	--	--	--

Depth	Tot. Pb	WET	TCLP	pH
0.0-0.5'	130	2.5	<0.05	--
0.5-1.0'	450	22	0.41	5.9
1.5-2.0'	7.5	--	--	--
2.5-3.0'	27	--	--	--

Depth	Tot. Pb	WET	TCLP	pH
0.0-0.5'	200	11	0.16	--
0.5-1.0'	29	--	--	--
1.5-2.0'	6.9	--	--	--
2.5-3.0'	4.0	--	--	--

LEGEND:

- - - - - Approximate Limits of Soil Disturbance

⊗ Approximate Boring Location

Depth: depth of sample in feet
Tot. Pb: total lead results in milligrams per kilogram (mg/kg)
WET: WET soluble lead results in milligrams per liter (mg/l)
TCLP: TCLP soluble lead results in mg/l
<0.5: not detected at or above laboratory detection limit specified
-- : analysis not performed

N

0 40
Scale in Feet

GEOCON WEST, INC.
3303 N. SAN FERNANDO BLVD. - SUITE 100 - BURBANK, CA. 91504
PHONE 818 841-8388 - FAX 818 841-1704

PCH between Calle Mayor and Janet Lane – ADL Survey

Torrance, California

SITE PLAN

A9241-77-01	July 2015	Figure 2-5

TABLE 1
BORING COORDINATES AND SUMMARY OF LEAD ANALYTICAL RESULTS
PCH BETWEEN CALLE MAYOR AND JANET LANE
TORRANCE, CALIFORNIA

Sample ID	Sample Date	Latitude	Longitude	Sample Depth Interval (feet)	Total Lead[3] (mg/kg)	WET Lead[4] (mg/l)	TCLP Lead[5] (mg/l)	pH[6]
B1-0.0	6/19/2015	33.81317703	-118.369359	0.0-0.5	540	35	0.32	6.7
B1-0.5	6/19/2015			0.5-1.0	210	15	0.72	--
B1-1.5	6/19/2015			1.5-2.0	19	--	--	--
B1-2.5	6/19/2015			2.5-3.0	19	--	--	--
B2-0.0	6/19/2015	33.81293017	-118.368997	0.0-0.5	250	13	0.30	--
B2-0.5	6/19/2015			0.5-1.0	62	3.6	--	--
B2-1.5	6/19/2015			1.5-2.0	15	--	--	--
B2-2.5	6/19/2015			2.5-3.0	24	--	--	--
B3-0.0	6/19/2015	33.81257343	-118.368499	0.0-0.5	370	22	0.31	--
B3-0.5	6/19/2015			0.5-1.0	72	4.5	--	--
B3-1.5	6/19/2015			1.5-2.0	22	--	--	--
B3-2.5	6/19/2015			2.5-3.0	16	--	--	--
B4-0.0	6/19/2015	33.81223038	-118.367994	0.0-0.5	330	25	0.54	--
B4-0.5	6/19/2015			0.5-1.0	120	7.2	0.17	--
B4-1.5	6/19/2015			1.5-2.0	11	--	--	--
B4-2.5	6/19/2015			2.5-3.0	20	--	--	--
B5-0.0	6/19/2015	33.81188197	-118.367489	0.0-0.5	90	3.9	--	--
B5-0.5	6/19/2015			0.5-1.0	8.2	--	--	--
B5-1.5	6/19/2015			1.5-2.0	11	--	--	--
B5-2.5	6/19/2015			2.5-3.0	68	<1.0	--	--
B6-0.0	6/19/2015	33.81153335	-118.36698	0.0-0.5	230	14	0.17	--
B6-0.5	6/19/2015			0.5-1.0	73	2.4	--	--
B6-1.5	6/19/2015			1.5-2.0	13	--	--	--
B6-2.5	6/19/2015			2.5-3.0	7.9	--	--	--
B7-0.0	6/19/2015	33.81120302	-118.366466	0.0-0.5	66	3.0	--	--
B7-0.5	6/19/2015			0.5-1.0	20	--	--	--
B7-1.5	6/19/2015			1.5-2.0	2.7	--	--	--
B7-2.5	6/19/2015			2.5-3.0	1.6	--	--	--
B8-0.0	6/19/2015	33.81088777	-118.36593	0.0-0.5	1,200	<1.0	0.98	5.4
B8-0.5	6/19/2015			0.5-1.0	250	13	0.84	--
B8-1.5	6/19/2015			1.5-2.0	89	6.9	--	--
B8-2.5	6/19/2015			2.5-3.0	56	3.0	--	--
B9-0.0	6/19/2015	33.81059563	-118.365378	0.0-0.5	91	7.0	--	--
B9-0.5	6/19/2015			0.5-1.0	240	12	0.44	--
B9-1.5	6/19/2015			1.5-2.0	35	--	--	--
B9-2.5	6/19/2015			2.5-3.0	42	--	--	--

TABLE I
BORING COORDINATES AND SUMMARY OF LEAD ANALYTICAL RESULTS
PCH BETWEEN CALLE MAYOR AND JANET LANE
TORRANCE, CALIFORNIA

Sample ID	Sample Date	Latitude	Longitude	Sample Depth Interval (feet)	Total Lead[3] (mg/kg)	WET Lead[4] (mg/l)	TCLP Lead[5] (mg/l)	pH[6]
B10-0.0	6/19/2015	33.81033047	-118.364817	0.0-0.5	92	4.9	--	--
B10-0.5	6/19/2015			0.5-1.0	66	3.5	--	--
B10-1.5	6/19/2015			1.5-2.0	16	--	--	--
B10-2.5	6/19/2015			2.5-3.0	26	--	--	--
B11-0.0	6/19/2015	33.81007893	-118.364216	0.0-0.5	390	19	0.45	6.0
B11-0.5	6/19/2015			0.5-1.0	98	4.4	--	--
B11-1.5	6/19/2015			1.5-2.0	5.3	--	--	--
B11-2.5	6/19/2015			2.5-3.0	4.0	--	--	--
B12-0.0	6/19/2015	33.80982018	-118.363582	0.0-0.5	440	21	0.32	5.2
B12-0.5	6/19/2015			0.5-1.0	74	3.5	--	--
B12-1.5	6/19/2015			1.5-2.0	34	--	--	--
B12-2.5	6/19/2015			2.5-3.0	19	--	--	--
B13-0.0	6/19/2015	33.80959097	-118.362987	0.0-0.5	520	31	0.74	5.9
B13-0.5	6/19/2015			0.5-1.0	54	7.9	--	--
B13-1.5	6/19/2015			1.5-2.0	51	2.0	--	--
B13-2.5	6/19/2015			2.5-3.0	4.7	--	--	--
B14-0.0	6/19/2015	33.80935713	-118.362393	0.0-0.5	130	2.5	<0.050	--
B14-0.5	6/19/2015			0.5-1.0	450	22	0.41	5.9
B14-1.5	6/19/2015			1.5-2.0	7.6	--	--	--
B14-2.5	6/19/2015			2.5-3.0	27	--	--	--
B15-0.0	6/19/2015	33.80912715	-118.361802	0.0-0.5	200	11	0.16	--
B15-0.5	6/19/2015			0.5-1.0	29	--	--	--
B15-1.5	6/19/2015			1.5-2.0	6.9	--	--	--
B15-2.5	6/19/2015			2.5-3.0	4.0	--	--	--
				Regulatory Limits:		5.0[8]	5.0[9]	

Notes:

1. Samples analyzed by Adavanced Technology Laboratories of Signal Hill, California
2. Samples were collected using a hand auger; sample depths in feet below ground surface.
3. U.S. Environmental Protection Agency (EPA) Method 6010; concentration in milligrams per kilograms (mg/kg)
4. Soluble lead using the Waste Extraction Test (WET) with citric acid as the extractant; concentration in milligrams per liter (mg/l).
5. Soluble lead analyzed by the Toxicity Characteristic Leaching Procedure (TCLP); concentration in mg/l.
6. U.S. EPA Method 9045
7. -- = Not analyzed
8. Soluble Threshold Limit Concentration (STLC) for California hazardous waste (California Code of Regulations [CCR] Title 22, Section 66261
9. Maximum concentration for the Toxicity Characteristic of Resource Conservation Recovery Act (RCRA) hazardous waste (CCR Title 22, Section 6626.24)

APPENDIX A

ADVANCED TECHNOLOGY
LABORATORIES

July 07, 2015

Mike Conkle
Geocon West, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504
Tel: (818) 841-8388
Fax:(818) 841-1704

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

Re: ATL Work Order Number : 1502155
Client Reference : PCH B/N Calle Mayor & Janet Lane, A9241-77-01

Enclosed are the results for sample(s) received on June 19, 2015 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 West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1-0.0	1502155-01	Soil	6/19/15 7:24	6/19/15 14:38
B1-0.5	1502155-02	Soil	6/19/15 7:28	6/19/15 14:38
B1-1.5	1502155-03	Soil	6/19/15 7:34	6/19/15 14:38
B1-2.5	1502155-04	Soil	6/19/15 7:38	6/19/15 14:38
B2-0.0	1502155-05	Soil	6/19/15 7:43	6/19/15 14:38
B2-0.5	1502155-06	Soil	6/19/15 7:44	6/19/15 14:38
B2-1.5	1502155-07	Soil	6/19/15 7:45	6/19/15 14:38
B2-2.5	1502155-08	Soil	6/19/15 7:47	6/19/15 14:38
B3-0.0	1502155-09	Soil	6/19/15 7:58	6/19/15 14:38
B3-0.5	1502155-10	Soil	6/19/15 7:59	6/19/15 14:38
B3-1.5	1502155-11	Soil	6/19/15 8:02	6/19/15 14:38
B3-2.5	1502155-12	Soil	6/19/15 8:03	6/19/15 14:38
B4-0.0	1502155-13	Soil	6/19/15 8:16	6/19/15 14:38
B4-0.5	1502155-14	Soil	6/19/15 8:17	6/19/15 14:38
B4-1.5	1502155-15	Soil	6/19/15 8:19	6/19/15 14:38
B4-2.5	1502155-16	Soil	6/19/15 8:20	6/19/15 14:38
B5-0.0	1502155-17	Soil	6/19/15 8:35	6/19/15 14:38
B5-0.5	1502155-18	Soil	6/19/15 8:37	6/19/15 14:38
B5-1.5	1502155-19	Soil	6/19/15 8:38	6/19/15 14:38
B5-2.5	1502155-20	Soil	6/19/15 8:39	6/19/15 14:38
B6-0.0	1502155-21	Soil	6/19/15 8:53	6/19/15 14:38
B6-0.5	1502155-22	Soil	6/19/15 8:54	6/19/15 14:38
B6-1.5	1502155-23	Soil	6/19/15 8:56	6/19/15 14:38
B6-2.5	1502155-24	Soil	6/19/15 8:58	6/19/15 14:38
B7-0.0	1502155-25	Soil	6/19/15 9:03	6/19/15 14:38
B7-0.5	1502155-26	Soil	6/19/15 9:04	6/19/15 14:38
B7-1.5	1502155-27	Soil	6/19/15 9:06	6/19/15 14:38
B7-2.5	1502155-28	Soil	6/19/15 9:08	6/19/15 14:38
B8-0.0	1502155-29	Soil	6/19/15 9:16	6/19/15 14:38
B8-0.5	1502155-30	Soil	6/19/15 9:17	6/19/15 14:38
B8-1.5	1502155-31	Soil	6/19/15 9:18	6/19/15 14:38
B8-2.5	1502155-32	Soil	6/19/15 9:21	6/19/15 14:38
B9-0.0	1502155-33	Soil	6/19/15 9:34	6/19/15 14:38
B9-0.5	1502155-34	Soil	6/19/15 9:35	6/19/15 14:38

Certificate of Analysis

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3303 N. San Fernando Blvd., Suite 100	Report To :	Mike Conkle
Burbank , CA 91504	Reported :	07/07/2015

B9-1.5	1502155-35	Soil	6/19/15 9:37	6/19/15 14:38
B9-2.5	1502155-36	Soil	6/19/15 9:38	6/19/15 14:38
B10-0.0	1502155-37	Soil	6/19/15 9:47	6/19/15 14:38
B10-0.5	1502155-38	Soil	6/19/15 9:47	6/19/15 14:38
B10-1.5	1502155-39	Soil	6/19/15 9:49	6/19/15 14:38
B10-2.5	1502155-40	Soil	6/19/15 9:51	6/19/15 14:38
B11-0.0	1502155-41	Soil	6/19/15 10:05	6/19/15 14:38
B11-0.5	1502155-42	Soil	6/19/15 10:06	6/19/15 14:38
B11-1.5	1502155-43	Soil	6/19/15 10:07	6/19/15 14:38
B11-2.5	1502155-44	Soil	6/19/15 10:08	6/19/15 14:38
B12-0.0	1502155-45	Soil	6/19/15 10:22	6/19/15 14:38
B12-0.5	1502155-46	Soil	6/19/15 10:23	6/19/15 14:38
B12-1.5	1502155-47	Soil	6/19/15 10:25	6/19/15 14:38
B12-2.5	1502155-48	Soil	6/19/15 10:26	6/19/15 14:38
B13-0.0	1502155-49	Soil	6/19/15 10:43	6/19/15 14:38
B13-0.5	1502155-50	Soil	6/19/15 10:44	6/19/15 14:38
B13-1.5	1502155-51	Soil	6/19/15 10:46	6/19/15 14:38
B13-2.5	1502155-52	Soil	6/19/15 10:47	6/19/15 14:38
B14-0.0	1502155-53	Soil	6/19/15 11:00	6/19/15 14:38
B14-0.5	1502155-54	Soil	6/19/15 11:01	6/19/15 14:38
B14-1.5	1502155-55	Soil	6/19/15 11:02	6/19/15 14:38
B14-2.5	1502155-56	Soil	6/19/15 11:03	6/19/15 14:38
B15-0.0	1502155-57	Soil	6/19/15 11:12	6/19/15 14:38
B15-0.5	1502155-58	Soil	6/19/15 11:13	6/19/15 14:38
B15-1.5	1502155-59	Soil	6/19/15 11:15	6/19/15 14:38
B15-2.5	1502155-60	Soil	6/19/15 11:17	6/19/15 14:38

Certificate of Analysis

Geocon West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

Total Metals by ICP-AES EPA 6010B

Analyte: Lead **Analyst: RR**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1502155-01	B1-0.0	**540**	mg/kg	1.0	1	B5F0512	06/24/2015	06/24/15 15:06	
1502155-02	B1-0.5	**210**	mg/kg	1.0	1	B5F0512	06/24/2015	06/24/15 15:08	
1502155-03	B1-1.5	**19**	mg/kg	1.0	1	B5F0512	06/24/2015	06/24/15 15:09	
1502155-04	B1-2.5	**19**	mg/kg	1.0	1	B5F0512	06/24/2015	06/24/15 15:12	
1502155-05	B2-0.0	**250**	mg/kg	1.0	1	B5F0512	06/24/2015	06/24/15 15:13	
1502155-06	B2-0.5	**62**	mg/kg	1.0	1	B5F0512	06/24/2015	06/24/15 15:15	
1502155-07	B2-1.5	**15**	mg/kg	1.0	1	B5F0512	06/24/2015	06/24/15 15:17	
1502155-08	B2-2.5	**24**	mg/kg	1.0	1	B5F0512	06/24/2015	06/24/15 15:20	
1502155-09	B3-0.0	**370**	mg/kg	1.0	1	B5F0512	06/24/2015	06/24/15 15:26	
1502155-10	B3-0.5	**72**	mg/kg	1.0	1	B5F0512	06/24/2015	06/24/15 15:27	
1502155-11	B3-1.5	**22**	mg/kg	1.0	1	B5F0512	06/24/2015	06/24/15 15:29	
1502155-12	B3-2.5	**16**	mg/kg	1.0	1	B5F0512	06/24/2015	06/24/15 15:31	
1502155-13	B4-0.0	**330**	mg/kg	1.0	1	B5F0512	06/24/2015	06/24/15 15:32	
1502155-14	B4-0.5	**120**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:04	
1502155-15	B4-1.5	**11**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:09	
1502155-16	B4-2.5	**20**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:11	
1502155-17	B5-0.0	**90**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:13	
1502155-18	B5-0.5	**8.2**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:14	
1502155-19	B5-1.5	**11**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:16	
1502155-20	B5-2.5	**68**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:22	
1502155-21	B6-0.0	**230**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:24	
1502155-22	B6-0.5	**73**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:26	
1502155-23	B6-1.5	**13**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:27	
1502155-24	B6-2.5	**7.9**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:29	
1502155-25	B7-0.0	**66**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:31	
1502155-26	B7-0.5	**20**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:33	
1502155-27	B7-1.5	**2.7**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:35	
1502155-28	B7-2.5	**1.6**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:37	
1502155-29	B8-0.0	**1200**	mg/kg	2.0	2	B5F0513	06/24/2015	06/25/15 09:14	D6
1502155-30	B8-0.5	**250**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:45	

Certificate of Analysis

Geocon West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

Total Metals by ICP-AES EPA 6010B

Analyte: Lead **Analyst: RR**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1502155-31	B8-1.5	**89**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:46	
1502155-32	B8-2.5	**56**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:49	
1502155-33	B9-0.0	**91**	mg/kg	1.0	1	B5F0513	06/24/2015	06/24/15 16:50	
1502155-34	B9-0.5	**240**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 14:20	
1502155-35	B9-1.5	**35**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 14:31	
1502155-36	B9-2.5	**42**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 14:34	
1502155-37	B10-0.0	**92**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 14:37	
1502155-38	B10-0.5	**66**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 14:41	
1502155-39	B10-1.5	**16**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 14:44	
1502155-40	B10-2.5	**26**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 14:55	
1502155-41	B11-0.0	**390**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 14:58	
1502155-42	B11-0.5	**98**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 15:01	
1502155-43	B11-1.5	**5.3**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 15:05	
1502155-44	B11-2.5	**4.0**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 15:08	
1502155-45	B12-0.0	**440**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 15:11	
1502155-46	B12-0.5	**74**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 15:15	
1502155-47	B12-1.5	**34**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 15:18	
1502155-48	B12-2.5	**19**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 15:22	
1502155-49	B13-0.0	**520**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 15:25	
1502155-50	B13-0.5	**54**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 15:36	
1502155-51	B13-1.5	**51**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 15:39	
1502155-52	B13-2.5	**4.7**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 15:42	
1502155-53	B14-0.0	**130**	mg/kg	1.0	1	B5F0514	06/24/2015	06/24/15 15:46	
1502155-54	B14-0.5	**450**	mg/kg	1.0	1	B5F0515	06/24/2015	06/24/15 16:00	
1502155-55	B14-1.5	**7.6**	mg/kg	1.0	1	B5F0515	06/24/2015	06/24/15 16:18	
1502155-56	B14-2.5	**27**	mg/kg	1.0	1	B5F0515	06/24/2015	06/24/15 16:22	
1502155-57	B15-0.0	**200**	mg/kg	1.0	1	B5F0515	06/24/2015	06/24/15 16:25	
1502155-58	B15-0.5	**29**	mg/kg	1.0	1	B5F0515	06/24/2015	06/24/15 16:28	
1502155-59	B15-1.5	**6.9**	mg/kg	1.0	1	B5F0515	06/24/2015	06/24/15 16:32	
1502155-60	B15-2.5	**4.0**	mg/kg	1.0	1	B5F0515	06/24/2015	06/24/15 16:35	

Certificate of Analysis

Geocon West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

TCLP Metals by ICP-AES EPA 6010B

Analyte: Lead **Analyst: RR**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1502155-01	B1-0.0	**0.32**	mg/L	0.050	1	B5G0035	07/02/2015	07/02/15 14:32	
1502155-02	B1-0.5	**0.72**	mg/L	0.050	1	B5G0035	07/02/2015	07/02/15 14:35	
1502155-05	B2-0.0	**0.30**	mg/L	0.050	1	B5G0035	07/02/2015	07/02/15 14:37	
1502155-09	B3-0.0	**0.31**	mg/L	0.050	1	B5G0035	07/02/2015	07/02/15 14:39	
1502155-13	B4-0.0	**0.54**	mg/L	0.050	1	B5G0035	07/02/2015	07/02/15 14:41	
1502155-14	B4-0.5	**0.17**	mg/L	0.050	1	B5G0036	07/02/2015	07/02/15 16:43	
1502155-21	B6-0.0	**0.17**	mg/L	0.050	1	B5G0036	07/02/2015	07/02/15 16:45	
1502155-29	B8-0.0	**0.98**	mg/L	0.050	1	B5G0035	07/02/2015	07/02/15 14:43	
1502155-30	B8-0.5	**0.84**	mg/L	0.050	1	B5G0036	07/02/2015	07/02/15 16:51	
1502155-34	B9-0.5	**0.44**	mg/L	0.050	1	B5G0036	07/02/2015	07/02/15 16:53	
1502155-41	B11-0.0	**0.45**	mg/L	0.050	1	B5G0036	07/02/2015	07/02/15 16:55	
1502155-45	B12-0.0	**0.32**	mg/L	0.050	1	B5G0036	07/02/2015	07/02/15 16:57	
1502155-49	B13-0.0	**0.74**	mg/L	0.050	1	B5G0036	07/02/2015	07/02/15 16:59	
1502155-53	B14-0.0	**ND**	mg/L	0.050	1	B5G0036	07/02/2015	07/02/15 17:01	
1502155-54	B14-0.5	**0.41**	mg/L	0.050	1	B5G0036	07/02/2015	07/02/15 17:03	
1502155-57	B15-0.0	**0.16**	mg/L	0.050	1	B5G0036	07/02/2015	07/02/15 17:06	

Certificate of Analysis

Geocon West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

STLC Metals by ICP-AES by EPA 6010B

Analyte: Lead **Analyst: RR**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1502155-01	B1-0.0	**35**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 12:42	
1502155-02	B1-0.5	**15**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 12:44	
1502155-05	B2-0.0	**13**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 12:47	
1502155-06	B2-0.5	**3.6**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 12:49	
1502155-09	B3-0.0	**22**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 12:51	
1502155-10	B3-0.5	**4.5**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 12:58	
1502155-13	B4-0.0	**25**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 13:07	
1502155-14	B4-0.5	**7.2**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 13:09	
1502155-17	B5-0.0	**3.9**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 13:12	
1502155-20	B5-2.5	**ND**	mg/L	1.0	20	B5G0060	07/06/2015	07/06/15 12:05	
1502155-21	B6-0.0	**14**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 13:16	
1502155-22	B6-0.5	**2.4**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 13:19	
1502155-25	B7-0.0	**3.0**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 13:25	
1502155-29	B8-0.0	**ND**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 13:27	
1502155-30	B8-0.5	**13**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 13:30	
1502155-31	B8-1.5	**6.9**	mg/L	1.0	20	B5F0673	07/01/2015	07/01/15 13:32	
1502155-32	B8-2.5	**3.0**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 13:44	
1502155-33	B9-0.0	**7.0**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 13:54	
1502155-34	B9-0.5	**12**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 13:57	
1502155-37	B10-0.0	**4.9**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 13:59	
1502155-38	B10-0.5	**3.5**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 14:01	
1502155-41	B11-0.0	**19**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 14:04	
1502155-42	B11-0.5	**4.4**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 14:06	
1502155-45	B12-0.0	**21**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 14:08	
1502155-46	B12-0.5	**3.5**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 14:11	
1502155-49	B13-0.0	**31**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 14:13	
1502155-50	B13-0.5	**7.9**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 14:19	
1502155-51	B13-1.5	**2.0**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 14:22	
1502155-53	B14-0.0	**2.5**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 14:24	
1502155-54	B14-0.5	**22**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 14:26	

Certificate of Analysis

Geocon West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

STLC Metals by ICP-AES by EPA 6010B

Analyte: Lead **Analyst: RR**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1502155-57	B15-0.0	**11**	mg/L	1.0	20	B5F0674	07/01/2015	07/01/15 14:29	

pH by EPA 9045C

Analyte: pH **Analyst: LA**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1502155-01	B1-0.0	**6.7**	pH Units	0.10	1	B5G0078	07/06/2015	07/06/15 15:32	
1502155-29	B8-0.0	**5.4**	pH Units	0.10	1	B5G0078	07/06/2015	07/06/15 15:32	
1502155-41	B11-0.0	**6.0**	pH Units	0.10	1	B5G0078	07/06/2015	07/06/15 15:32	
1502155-45	B12-0.0	**5.2**	pH Units	0.10	1	B5G0078	07/06/2015	07/06/15 15:32	
1502155-49	B13-0.0	**5.9**	pH Units	0.10	1	B5G0078	07/06/2015	07/06/15 15:32	
1502155-54	B14-0.5	**5.9**	pH Units	0.10	1	B5G0078	07/06/2015	07/06/15 15:32	

Certificate of Analysis

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3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

QUALITY CONTROL SECTION

Total 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 B5F0512 - EPA 3050B_S									
Blank (B5F0512-BLK1)					Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	ND	1.0			NR				
LCS (B5F0512-BS1)					Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	48.8420	1.0	50.0000		97.7	80 - 120			
Duplicate (B5F0512-DUP1)		**Source: 1502172-24**			Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	31.2854	1.0		31.4687	NR		0.584	20	
Matrix Spike (B5F0512-MS1)		**Source: 1502172-24**			Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	123.318	1.0	125.000	31.4687	73.5	35 - 129			
Matrix Spike Dup (B5F0512-MSD1)		**Source: 1502172-24**			Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	121.408	1.0	125.000	31.4687	72.0	35 - 129	1.56	20	

Certificate of Analysis

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3303 N. San Fernando Blvd., Suite 100		Report To :	Mike Conkle
Burbank , CA 91504		Reported :	07/07/2015

Total 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 B5F0513 - EPA 3050B_S									
Blank (B5F0513-BLK1)					Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	ND	1.0			NR				
LCS (B5F0513-BS1)					Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	49.3400	1.0	50.0000		98.7	80 - 120			
Matrix Spike (B5F0513-MS1)		**Source: 1502155-14**			Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	236.595	1.0	124.378	117.536	95.7	35 - 129			
Matrix Spike Dup (B5F0513-MSD1)		**Source: 1502155-14**			Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	210.659	1.0	125.628	117.536	74.1	35 - 129	11.6	20	

Certificate of Analysis

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3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

Total 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 B5F0514 - EPA 3050B_S									
Blank (B5F0514-BLK1)					Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	ND	1.0			NR				
LCS (B5F0514-BS1)					Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	48.7622	1.0	50.0000		97.5	80 - 120			
Matrix Spike (B5F0514-MS1)		**Source: 1502155-34**			Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	312.362	1.0	125.000	237.196	60.1	35 - 129			
Matrix Spike Dup (B5F0514-MSD1)		**Source: 1502155-34**			Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	321.345	1.0	125.000	237.196	67.3	35 - 129	2.83	20	

Certificate of Analysis

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3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

Total 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 B5F0515 - EPA 3050B_S									
Blank (B5F0515-BLK1)					Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	ND	1.0			NR				
LCS (B5F0515-BS1)					Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	48.3629	1.0	50.0000		96.7	80 - 120			
Matrix Spike (B5F0515-MS1)		**Source: 1502155-54**			Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	486.890	1.0	125.000	446.700	32.2	35 - 129			M1
Matrix Spike Dup (B5F0515-MSD1)		**Source: 1502155-54**			Prepared: 6/24/2015 Analyzed: 6/24/2015				
Lead	486.664	1.0	125.000	446.700	32.0	35 - 129	0.0462	20	M1

Certificate of Analysis

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3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

Total 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 B5G0057 - EPA 3050B_S									
Blank (B5G0057-BLK1)					Prepared: 7/6/2015 Analyzed: 7/6/2015				
Lead	ND	1.0			NR				
LCS (B5G0057-BS1)					Prepared: 7/6/2015 Analyzed: 7/6/2015				
Lead	47.4177	1.0	50.0000		94.8	80 - 120			
Duplicate (B5G0057-DUP1)		**Source: 1502155-20RE1**			Prepared: 7/6/2015 Analyzed: 7/6/2015				
Lead	6.54606	1.0		4.92198	NR		28.3	20	R
Matrix Spike (B5G0057-MS1)		**Source: 1502155-20RE1**			Prepared: 7/6/2015 Analyzed: 7/6/2015				
Lead	116.324	1.0	125.000	4.92198	89.1	35 - 129			
Matrix Spike Dup (B5G0057-MSD1)		**Source: 1502155-20RE1**			Prepared: 7/6/2015 Analyzed: 7/6/2015				
Lead	114.793	1.0	124.378	4.92198	88.3	35 - 129	1.33	20	

Certificate of Analysis

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3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

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 B5G0035 - EPA 3010A_S									
Blank (B5G0035-BLK1)					Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	ND	0.050			NR				
Blank (B5G0035-BLK2)					Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	ND	0.050			NR				
LCS (B5G0035-BS1)					Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	0.924758	0.050	1.00000		92.5	80 - 120			
Duplicate (B5G0035-DUP1)		**Source: 1502073-01**			Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	0.044998	0.050		0.043435	NR		3.53	20	
Duplicate (B5G0035-DUP2)		**Source: 1502140-AS**			Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	2.60533	0.050		2.48338	NR		4.79	20	
Matrix Spike (B5G0035-MS1)		**Source: 1502073-01**			Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	2.25810	0.050	2.50000	0.043435	88.6	77 - 121			
Matrix Spike (B5G0035-MS2)		**Source: 1502140-AS**			Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	4.58249	0.050	2.50000	2.48338	84.0	77 - 121			
Matrix Spike Dup (B5G0035-MSD1)		**Source: 1502073-01**			Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	2.21272	0.050	2.50000	0.043435	86.8	77 - 121	2.03	20	

Certificate of Analysis

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3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

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 B5G0036 - EPA 3010A_S									
Blank (B5G0036-BLK1)					Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	ND	0.050			NR				
Blank (B5G0036-BLK2)					Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	ND	0.050			NR				
LCS (B5G0036-BS1)					Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	0.937124	0.050	1.00000		93.7	80 - 120			
Duplicate (B5G0036-DUP1)		**Source: 1502074-08**			Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	0.056103	0.050		0.055426	NR		1.22	20	
Duplicate (B5G0036-DUP2)		**Source: 1502074-FH**			Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	0.095062	0.050		0.090311	NR		5.13	20	
Matrix Spike (B5G0036-MS1)		**Source: 1502074-08**			Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	2.20440	0.050	2.50000	0.055426	86.0	77 - 121			
Matrix Spike (B5G0036-MS2)		**Source: 1502074-FH**			Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	2.18879	0.050	2.50000	0.090311	83.9	77 - 121			
Matrix Spike Dup (B5G0036-MSD1)		**Source: 1502074-08**			Prepared: 7/2/2015 Analyzed: 7/2/2015				
Lead	2.15501	0.050	2.50000	0.055426	84.0	77 - 121	2.27	20	

Certificate of Analysis

Geocon West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

STLC 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 B5F0673 - STLC_S Extraction									
Blank (B5F0673-BLK1)					Prepared: 7/1/2015 Analyzed: 7/1/2015				
Lead	ND	1.0			NR				
Blank (B5F0673-BLK2)					Prepared: 7/1/2015 Analyzed: 7/1/2015				
Lead	ND	1.0			NR				
LCS (B5F0673-BS1)					Prepared: 7/1/2015 Analyzed: 7/1/2015				
Lead	1.90471		2.00000		95.2	80 - 120			
Duplicate (B5F0673-DUP1)		**Source: 1502155-10**			Prepared: 7/1/2015 Analyzed: 7/1/2015				
Lead	4.00589	1.0		4.49804	NR		11.6	20	
Duplicate (B5F0673-DUP2)		**Source: 1502155-31**			Prepared: 7/1/2015 Analyzed: 7/1/2015				
Lead	5.86857	1.0		6.94016	NR		16.7	20	
Matrix Spike (B5F0673-MS1)		**Source: 1502155-10**			Prepared: 7/1/2015 Analyzed: 7/1/2015				
Lead	6.55496		2.50000	4.49804	82.3	44 - 130			
Matrix Spike (B5F0673-MS2)		**Source: 1502155-31**			Prepared: 7/1/2015 Analyzed: 7/1/2015				
Lead	8.84919		2.50000	6.94016	76.4	44 - 130			
Matrix Spike Dup (B5F0673-MSD1)		**Source: 1502155-10**			Prepared: 7/1/2015 Analyzed: 7/1/2015				
Lead	6.74229		2.50000	4.49804	89.8	44 - 130	2.82	20	

Certificate of Analysis

Geocon West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

STLC 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 B5F0674 - STLC_S Extraction									
Blank (B5F0674-BLK1)					Prepared: 7/1/2015 Analyzed: 7/1/2015				
Lead	ND	1.0			NR				
LCS (B5F0674-BS1)					Prepared: 7/1/2015 Analyzed: 7/1/2015				
Lead	1.89583		2.00000		94.8	80 - 120			
Matrix Spike (B5F0674-MS1)		**Source: 1502155-32**			Prepared: 7/1/2015 Analyzed: 7/1/2015				
Lead	5.25586		2.50000	2.96565	91.6	44 - 130			
Matrix Spike Dup (B5F0674-MSD1)		**Source: 1502155-32**			Prepared: 7/1/2015 Analyzed: 7/1/2015				
Lead	5.07969		2.50000	2.96565	84.6	44 - 130	3.41	20	

Certificate of Analysis

Geocon West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

STLC 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 B5G0060 - STLC_S Extraction									
Blank (B5G0060-BLK1)					Prepared: 7/6/2015 Analyzed: 7/6/2015				
Lead	ND	1.0			NR				
Blank (B5G0060-BLK2)					Prepared: 7/6/2015 Analyzed: 7/6/2015				
Lead	ND	1.0			NR				
LCS (B5G0060-BS1)					Prepared: 7/6/2015 Analyzed: 7/6/2015				
Lead	2.08888		2.00000		104	80 - 120			
Duplicate (B5G0060-DUP1)		**Source: 1502013-22**			Prepared: 7/6/2015 Analyzed: 7/6/2015				
Lead	0.072327	1.0		0.102520	NR		34.5	20	R
Duplicate (B5G0060-DUP2)		**Source: 1502172-33**			Prepared: 7/6/2015 Analyzed: 7/6/2015				
Lead	0.041090	1.0		0.042438	NR		3.23	20	
Matrix Spike (B5G0060-MS1)		**Source: 1502013-22**			Prepared: 7/6/2015 Analyzed: 7/6/2015				
Lead	2.32108		2.50000	0.102520	88.7	44 - 130			
Matrix Spike (B5G0060-MS2)		**Source: 1502172-33**			Prepared: 7/6/2015 Analyzed: 7/6/2015				
Lead	2.28785		2.50000	0.042438	89.8	44 - 130			
Matrix Spike Dup (B5G0060-MSD1)		**Source: 1502013-22**			Prepared: 7/6/2015 Analyzed: 7/6/2015				
Lead	2.35737		2.50000	0.102520	90.2	44 - 130	1.55	20	

Certificate of Analysis

Geocon West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

pH by EPA 9045C - Quality Control

Analyte	Result (pH Units)	PQL (pH Units)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5G0078 - Prep_WC1_S									
Duplicate (B5G0078-DUP1)		**Source: 1502155-01**			Prepared: 7/6/2015 Analyzed: 7/6/2015				
pH	6.34000	0.10		6.69000	NR		5.37	20	

Certificate of Analysis

Geocon West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 07/07/2015

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.
D6	Sample required dilution due to high concentration of target analyte.
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

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

Method of Transport: Client ☑ ATL ☐ CA OverN ☐ FedEx ☐ Other: _____

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

Client: Geocon
Address: 3303 North San Fernando Blvd Suite 100
Tel: 818-841-8388
Attention: Mike Conkle
City: Burbank State: CA Zip Code: 91504
Fax: 818-841-1704
Project Name: PCH B/N Calle Mayor & Janet Lane Project #: A9241-77-01
Sampler: Mike Alcala (Signature)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Mike Alcala	6/19/15	1438	[illegible]	6/19/15	1438

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Mike Conkle 6/19/15
Print Name Date
Mike Conkle
Signature

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
Run samples with total lead greater than or equal to 50 mg/kg by WET. Run samples with WET results greater than or equal to 5.0 mg/l by DI-WET.

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)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode_____ OTHER _____

ITEM	LAB USE ONLY: Lab No.	Sample ID / Location	Date	Time	Lead	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	1502155-1	B1-0.0	6/19/15	0727	x	x				E	1	G J		
	-2	B1-0.5		0728	x	x				E	1	G J		
	-3	B1-1.5		0734	x	x				E	1	G J		
	-4	B1-2.5		0738	x	x				E	1	G J		
	-5	B2-0.0		0743	x	x				E	1	G J		
	-6	B2-0.5		0744	x	x				E	1	G J		
	-7	B2-1.5		0745	x	x				E	1	G J		
	-8	B2-2.5		0747	x	x				E	1	G J		
	-9	B3-0.0		0758	x	x				E	1	G J		
	-10	B3-0.5		0759	x	x				E	1	G J		
	-11	B3-1.5		0802	x	x				E	1	G J		
	-12	B3-2.5		0803	x	x				E	1	G J		
	-13	B4-0.0		0816	x	x				E	1	G J		
	-14	B4-0.5		0817	x	x				E	1	G J		
	-15	B4-1.5		0819	x	x				E	1	G J		
	-16	B4-2.5		0820	x	x				E	1	G J		
	-17	B5-0.0		0836	x	x				E	1	G J		
	-18	B5-0.5		0837	x	x				E	1	G J		
	-19	B5-1.5		0838	x	x				E	1	G J		
	-20	B5-2.5	↓	0839	x	x				E	1	G J		

■ TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ 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=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

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

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

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FedEx ☐ Other: _____

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

Client: Geocon
Attention: Mike Conkle
Address: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: ~~818-841-1704~~

Project Name: PCH B/N Calle Mayor & Janet Lane Project #: A9241-77-01 Sampler: Mike Alcala (Signature)

Relinquished by: (Signature and Printed Name) Mike Alcala Date: 6/19/15 Time: 1438 Received by: (Signature and Printed Name) Date: 6/19/15 Time: 1438
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Mike Conkle 6/19/15
Print Name Date
Mike Conkle
Signature

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
Run samples with total lead greater than or equal to 50 mg/kg by WET. Run samples with WET results greater than or equal to 5.0 mg/l by DI-WET.

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)

Circle or Add Analysis(es) Requested: Lead

SPECIFY APPROPRIATE MATRIX: SOIL, WATER, GROUND WATER, WASTEWATER

PRESERVATION: QA/QC RTNE ☐ CT ☐ SWRCB ☐ Logcode_____ OTHER _____

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	Lead	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	1502155-21	136 — 0-0	6/19/15	0853	x	x				E	1	G J		
	-22	136 — 0.5		0854	x	x				E	1	G J		
	-23	136 — 1.5		0856	x	x				E	1	G J		
	-24	136 — 2-5		0858	x	x				E	1	G J		
	-25	137 — 0-0		0903	x	x				E	1	G J		
	-26	137 — 0-5		0904	x	x				E	1	G J		
	-27	137 — 1.5		0906	x	x				E	1	G J		
	-28	137 — 2-5		0908	x	x				E	1	G J		
	-29	138 — 0-0		0916	x	x				E	1	G J		
	-30	138 — 0-5		0917	x	x				E	1	G J		
	-31	138 — 1.5		0918	x	x				E	1	G J		
	-32	138 — 2-5		0921	x	x				E	1	G J		
	-33	139 — 0-0		0934	x	x				E	1	G J		
	-34	139 — 0-5		0935	x	x				E	1	G J		
	-35	139 — 1-5		0937	x	x				E	1	G J		
	-36	139 — 2-5		0938	x	x				E	1	G J		
	-37	1510 — 0-0		0947	x	x				E	1	G J		
	-38	1510 — 0-5		0947	x	x				E	1	G J		
	-39	1510 — 1-5		0949	x	x				E	1	G J		
	-40	1510 — 2-5		0951	x	x				E	1	G J		

■ TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ 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=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

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

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

Method of Transport: Client ☑ ATL ☐ CA OverN ☐ FedEx ☐ Other: _____

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

Client: Geocon
Attention: Mike Conkle
Address: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: 818-841-1704

Project Name: PCH B/N Calle Mayor & Janet Lane
Project #: A9241-77-01
Sampler: Mike Alcala (Signature)

Relinquished by: (Signature and Printed Name) Mike Alcala Date: 6/19/15 Time: 14:38 Received by: (Signature and Printed Name) Date: 6/19/15 Time: 14:38
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

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

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
Run samples with total lead greater than or equal to 50 mg/kg by WET. Run samples with WET results greater than or equal to 5.0 mg/l by DI-WET.

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)

Circle or Add Analysis(es) Requested: Lead

SPECIFY APPROPRIATE MATRIX: SOIL, WATER, GROUND WATER, WASTEWATER

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode _____ OTHER _____

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	Lead	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	1502155-41	B11 - 0.0	6/19/15	1005	x	x				E	1	G J		
	-42	B11 - 0.5		1006	x	x				E	1	G J		
	-43	B11 - 1.5		1007	x	x				E	1	G J		
	-44	B11 - 2.5		1008	x	x				E	1	G J		
	-45	B12 - 0.0		1022	x	x				E	1	G J		
	-46	B12 - 0.5		1023	x	x				E	1	G J		
	-47	B12 - 1.5		1025	x	x				E	1	G J		
	-48	B12 - 2.5		1026	x	x				E	1	G J		
	-49	B13 - 0.0		1043	x	x				E	1	G J		
	-50	B13 - 0.5		1044	x	x				E	1	G J		
	-51	B13 - 1.5		1046	x	x				E	1	G J		
	-52	B13 - 2.5		1047	x	x				E	1	G J		
	-53	B14 - 0.0		1100	x	x				E	1	G J		
	-54	B14 - 0.5		1101	x	x				E	1	G J		
	-55	B14 - 1.5		1102	x	x				E	1	G J		
	-56	B14 - 2.5		1103	x	x				E	1	G J		
	-57	B15 - 0.0		1112	x	x				E	1	G J		
	-58	B15 - 0.5		1113	x	x				E	1	G J		
	-59	B15 - 1.5		1115	x	x				E	1	G J		
	-60	B15 - 2.5		1117	x	x				E	1	G J		

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ 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=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

Diane Galvan

From: Mike Conkle [conkle@geoconinc.com]
Sent: Tuesday, June 30, 2015 8:36 AM
To: Diane Galvan
Cc: Mike Akoto
Subject: RE: TTLC Results - PCH B/N Calle Mayor & Janet Lane (1502155)

Hi Diane,

Also, please run the 6 samples with the highest total lead concentrations for pH.

We would like 72 hour TAT.

Michael P. Conkle, PG | *Senior Geologist*
Geocon
3303 N. San Fernando Blvd. Suite 100, Burbank, CA 91504
Tel 818.841.8388 Fax 818.841.1704 Cell 213.503.7841
Visit our NEW website at www.geoconinc.com

San Diego / Los Angeles / Irvine / Murrieta / Palm Desert / Sacramento / Livermore / Bakersfield

From: Mike Conkle [mailto:conkle@geoconinc.com]
Sent: Monday, June 29, 2015 4:31 PM
To: Diane Galvan
Cc: Mike Akoto
Subject: RE: TTLC Results - PCH B/N Calle Mayor & Janet Lane (1502155)

Thank you Diane,
Please run all samples with total lead greater than 50 and less than 1,000 mg/kg for WET lead.

Please run all samples with total lead greater than 100 mg/kg for TCLP lead.

Michael P. Conkle, PG | *Senior Geologist*
Geocon
3303 N. San Fernando Blvd. Suite 100, Burbank, CA 91504
Tel 818.841.8388 Fax 818.841.1704 Cell 213.503.7841
Visit our NEW website at www.geoconinc.com

San Diego / Los Angeles / Irvine / Murrieta / Palm Desert / Sacramento / Livermore / Bakersfield

ADVANCED TECHNOLOGY
LABORATORIES

June 26, 2015

Mike Conkle
Geocon West, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504
Tel: (818) 841-8388
Fax:(818) 841-1704

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

Re: ATL Work Order Number : 1502156

Client Reference : PCH B/N Calle Mayor & Janet Lane, A9241-77-01

Enclosed are the results for sample(s) received on June 19, 2015 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 West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 06/26/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB-1	1502156-01	Water	6/19/15 8:40	6/19/15 14:38
EB-2	1502156-02	Water	6/19/15 9:52	6/19/15 14:38
EB-3	1502156-03	Water	6/19/15 11:20	6/19/15 14:38

Certificate of Analysis

Geocon West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 06/26/2015

Total Metals by ICP-AES EPA 6010B

Analyte: Lead **Analyst: RR**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1502156-01	EB-1	**ND**	mg/L	0.0050	1	B5F0488	06/23/2015	06/24/15 09:54	
1502156-02	EB-2	**ND**	mg/L	0.0050	1	B5F0488	06/23/2015	06/24/15 10:00	
1502156-03	EB-3	**ND**	mg/L	0.0050	1	B5F0488	06/23/2015	06/24/15 10:03	

Certificate of Analysis

Geocon West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 06/26/2015

QUALITY CONTROL SECTION

Total 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 B5F0488 - EPA 3010A_W									
Blank (B5F0488-BLK1)					Prepared: 6/23/2015 Analyzed: 6/24/2015				
Lead	ND	0.0050			NR				
LCS (B5F0488-BS1)					Prepared: 6/23/2015 Analyzed: 6/24/2015				
Lead	1.01158	0.0050	1.00000		101	80 - 120			
Matrix Spike (B5F0488-MS1)		**Source: 1502156-01**			Prepared: 6/23/2015 Analyzed: 6/24/2015				
Lead	2.43031	0.0050	2.50000	ND	97.2	85 - 114			
Matrix Spike Dup (B5F0488-MSD1)		**Source: 1502156-01**			Prepared: 6/23/2015 Analyzed: 6/24/2015				
Lead	2.36648	0.0050	2.50000	ND	94.7	85 - 114	2.66	20	

Certificate of Analysis

Geocon West, Inc.	Project Number : PCH B/N Calle Mayor & Janet Lane, A9241-77-01
3303 N. San Fernando Blvd., Suite 100	Report To : Mike Conkle
Burbank , CA 91504	Reported : 06/26/2015

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.

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

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

Method of Transport: Client ☑ ATL ☐ CA OverN ☐ FedEx ☐ Other: _____

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

Client: Geocon
Attention: Mike Conkle
Address: 3303 N. San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: 818-841-1704

Project Name: PCH B/N Calle Mayor & Janet Lane Project #: A9241-77-01 Sampler: Mike Alcoh (Signature)

Relinquished by: (Signature and Printed Name) Mike Alcoh Date: 6/19/15 Time: 1438 Received by: (Signature and Printed Name) Date: 6/19/15 Time: 1438
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Mike Conkle 6/19/15
Print Name Date
Mike Conkle
Signature

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
FILTER AND PRESEVE WATER SAMPLES AT LAB.

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)

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode_____ OTHER _____

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	Lead	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	1502152-1	EB-1	6/19/15	0840	x		x			E	1	P		
	-2	EB-2		0952	x		x			E	1	P		
	-3	EB-3		1120	x		x			E	1	P		

Circle or Add Analysis(es) Requested
SPECIFY APPROPRIATE MATRIX

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ 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=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

APPENDIX B

Project Name: **Pacific Coast Highway Between Calle Mayor and Janet Lane**
Geocon Project No.: **A9241-77-01**

Lead - 0.0 to 0.5 ft

Total Number of Observations	15	Number of Distinct Observations	15
		Number of Missing Observations	0
Minimum	66	Mean	329.3
Maximum	1200	Median	250
SD	288.9	Std. Error of Mean	74.6
Coefficient of Variation	0.878	Skewness	2.077
Mean of logged data	5.483	SD of logged data	0.83
		90% Standard Bootstrap UCL	**422.5**
		95% Standard Bootstrap UCL	**447.5**

Lead - 0.5 to 1.0 ft

Total Number of Observations	15	Number of Distinct Observations	15
		Number of Missing Observations	0
Minimum	8.2	Mean	121.7
Maximum	450	Median	73
SD	118.6	Std. Error of Mean	30.61
Coefficient of Variation	0.974	Skewness	1.753
Mean of logged data	4.365	SD of logged data	1.037
		90% Standard Bootstrap UCL	**159.4**
		95% Standard Bootstrap UCL	**169.7**

Lead - 1.5 to 2.0 ft

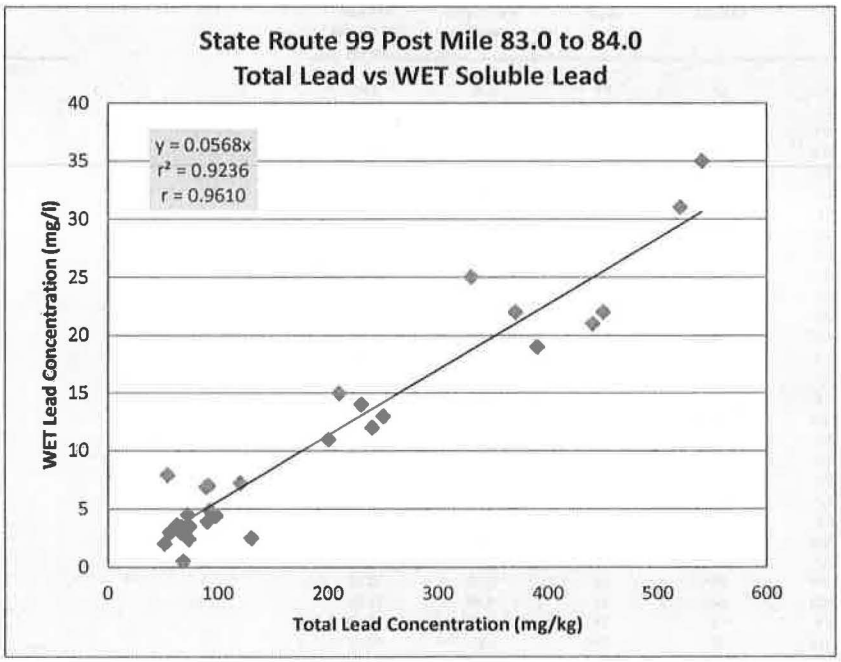
Total Number of Observations	15	Number of Distinct Observations	14
		Number of Missing Observations	0
Minimum	2.7	Mean	22.6
Maximum	89	Median	15
SD	22.59	Std. Error of Mean	5.832
Coefficient of Variation	1.001	Skewness	2.108
Mean of logged data	2.733	SD of logged data	0.908
		90% Standard Bootstrap UCL	**30.0**
		95% Standard Bootstrap UCL	**31.9**

Lead - 2.0 to 2.5 ft

Total Number of Observations	15	Number of Distinct Observations	13
		Number of Missing Observations	0
Minimum	1.6	Mean	22.6
Maximum	68	Median	19
SD	19.51	Std. Error of Mean	5.039
Coefficient of Variation	0.863	Skewness	1.182
Mean of logged data	2.682	SD of logged data	1.082
		90% Standard Bootstrap UCL	**28.9**
		95% Standard Bootstrap UCL	**30.4**

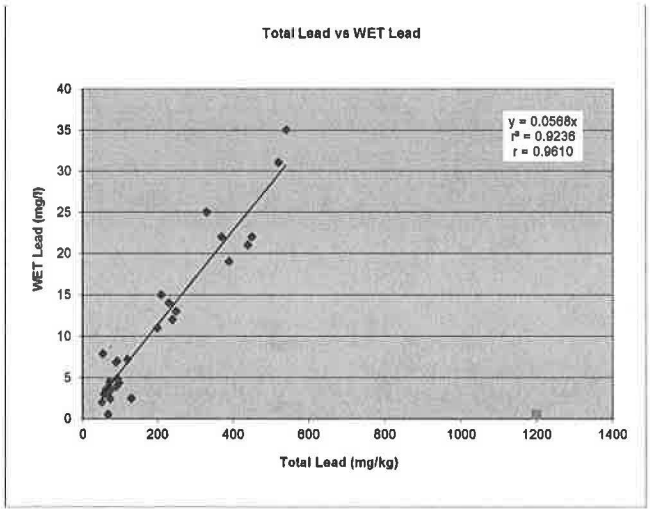
Project Name: Pacific Coast Highway Between Calle Mayor and Janet Lane
Geocon Project No: A9241-77-01

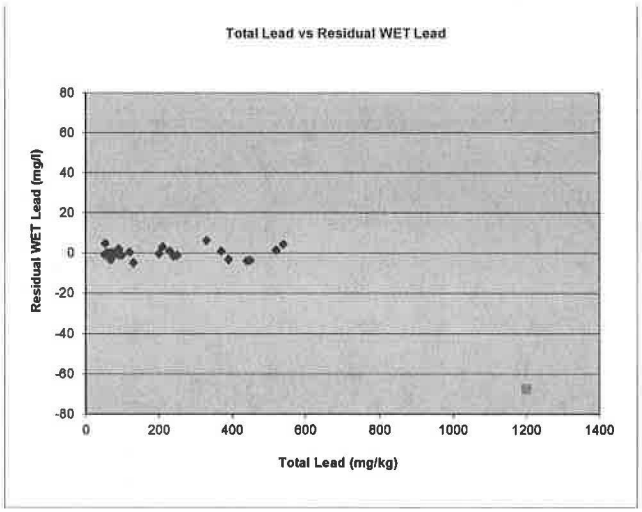
Sample ID	Total Lead	WET Lead
B5-2.5	68	0.5
B14-0.0	130	2.5
B6-0.5	73	2.4
B13-1.5	51	2
B5-0.0	90	3.9
B11-0.5	98	4.4
B7-0.0	66	3
B12-0.5	74	3.5
B12-0.0	440	21
B11-0.0	390	19
B14-0.5	450	22
B9-0.5	240	12
B2-0.0	250	13
B8-0.5	250	13
B10-0.5	66	3.5
B10-0.0	92	4.9
B8-2.5	56	3
B15-0.0	200	11
B2-0.5	62	3.6
B3-0.0	370	22
B13-0.0	520	31
B4-0.5	120	7.2
B6-0.0	230	14
B3-0.5	72	4.5
B1-0.0	540	35
B1-0.5	210	15
B4-0.0	330	25
B9-0.0	91	7
B8-1.5	89	6.9
B13-0.5	54	7.9
B8-0.0	1200	0.5



Project Name: Pacific Coast Highway Between Calle Mayor and Janet Lane
Project No.: A9241-77-01

Sample ID	Total Lead (mg/kg)	WET Lead (mg/l)	Residual WET Lead (mg/l)	Squared Residual WET Lead (mg/l)	slope	y-intercept	predicted WET	residual WET
					0.0568	0		
B2-0.5	62	3.6	0.08	0.01			3.5	0.08
B8-2.5	56	3	-0.18	0.03			3.2	-0.18
B10-0.5	66	3.5	-0.25	0.06			3.7	-0.25
B10-0.0	92	4.9	-0.33	0.11			5.2	-0.33
B15-0.0	200	11	-0.36	0.13			11.4	-0.36
B4-0.5	120	7.2	0.38	0.15			6.8	0.38
B3-0.5	72	4.5	0.41	0.17			4.1	0.41
B12-0.5	74	3.5	-0.70	0.49			4.2	-0.70
B7-0.0	66	3	-0.75	0.56			3.7	-0.75
B13-1.5	51	2	-0.90	0.80			2.9	-0.90
B6-0.0	230	14	0.94	0.88			13.1	0.94
B3-0.0	370	22	0.99	0.97			21.0	0.99
B11-0.5	98	4.4	-1.17	1.36			5.6	-1.17
B2-0.0	250	13	-1.20	1.44			14.2	-1.20
B8-0.5	250	13	-1.20	1.44			14.2	-1.20
B5-0.0	90	3.9	-1.21	1.47			5.1	-1.21
B13-0.0	520	31	1.47	2.15			29.5	1.47
B9-0.5	240	12	-1.63	2.66			13.6	-1.63
B6-0.5	73	2.4	-1.75	3.05			4.1	-1.75
B9-0.0	91	7	1.83	3.36			5.2	1.83
B8-1.5	89	6.9	1.85	3.41			5.1	1.85
B1-0.5	210	15	3.07	9.44			11.9	3.07
B11-0.0	390	19	-3.15	9.92			22.1	-3.15
B5-2.5	68	0.5	-3.36	11.30			3.9	-3.36
B14-0.5	450	22	-3.56	12.66			25.6	-3.56
B12-0.0	440	21	-3.99	15.92			25.0	-3.99
B1-0.0	540	35	4.33	18.76			30.7	4.33
B13-0.5	54	7.9	4.83	23.36			3.1	4.83
B14-0.0	130	2.5	-4.88	23.85			7.4	-4.88
B4-0.0	330	25	6.26	39.16			18.7	6.26
Not Used								
B8-0.0	1200	0.5	-67.65	4576.98			68.2	-67.65





Gecon Project No. A9241-77-01
July , 2015

SUMMARY OF STATISTICAL ANALYSIS
PACIFIC COAST HIGHWAY BETWEEN CALLE MAYOR AND JANET LANE
TORRANCE, CALIFORNIA

Total Lead UCLs (mg/kg)

Sample Interval (feet)	90% UCL	95% UCL
0.0 to 0.5	422.5	447.5
0.5 to 1.0	159.4	169.7
1.5 to 2.0	30.0	31.9
2.5 to 3.0	28.9	30.4

Excavation Scenarios

	90% UCL		95% UCL	
Excavation Depth	Total Lead (mg/kg)	Soluble (WET) Lead * (mg/l)	Total Lead (mg/kg)	Soluble (WET) Lead * (mg/l)
0.0 to 0.5	422.5	24.0	447.5	25.4
Underlying Soil (0.5 to 3.0 feet)	81.5	4.6	86.7	4.9
0.0 to 1.0 foot	291.0	16.5	308.6	17.5
Underlying Soil (1.0 to 3.0 feet)	62.1	3.5	66.0	3.7
0.0 to 1.5 feet	247.1	14.0	262.3	14.9
Underlying Soil (1.5 to 3.0 feet)	29.6	1.7	31.4	1.8
0.0 to 2.0 feet	192.8	11.0	204.7	11.6
Underlying Soil (2.0 to 3.0 feet)	29.5	1.7	31.2	1.8
0.0 to 2.5 feet	160.3	9.1	170.1	9.7
Underlying Soil (2.5 to 3.0 feet)	28.9	1.6	30.4	1.7
0.0 to 3.0 feet	138.4	7.9	146.9	8.3

Notes:
UCL = Upper Confidence Limit
90% UCL applicable for waste classification and onsite reuse
95% UCL applicable for risk assessment and offsite disposal
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
* = Soluble (WET) lead concentrations were predicted using slope of the regression line, where y = predicted soluble (WET) lead and x = total lead

Regression Line Slope:

$$y = 0.0568 \quad x$$