Aerially Deposited Lead, Naturally Occurring Asbestos and Lead Containing Paint Site Investigation and Bridge Survey Report

Highway 50 Site Investigation
Post Mile 2.90 to 8.79
El Dorado County, California

PREPARED FOR:

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GEOCON

GEOCON PROJECT NO. S9300-06-22
TASK ORDER NO. 22, CONTRACT NO. 03A1368

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GEOCON
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GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S9300-06-22
March 27, 2008

Mr. Rajive Chadha
California Department of Transportation – District 3
Environmental Engineering Office
P.O. Box 911
Marysville, California 95901

Subject: HIGHWAY 50 SITE INVESTIGATION, POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA
CONTRACT NO. 03A1368
TASK ORDER NO. 22, EA 03-3A7121
AERIALLY DEPOSITED LEAD, NATURALLY OCCURRING ASBESTOS, AND LEAD-CONTAINING PAINT SITE INVESTIGATION AND BRIDGE SURVEY REPORT

Dear Mr. Chadha:

In accordance with California Department of Transportation Contract No. 03A1368, Task Order No. 22, Expenditure Authorization 03-3A7121, we have performed environmental engineering services at the project site. The Site consists of the Highway 50 right-of-way in El Dorado County, California, from Post Mile 2.90 to 8.79. The accompanying report summarizes the services performed including a geological reconnaissance, the excavation of 100 direct-push borings and four hand-auger borings for the collection of samples for aerially deposited lead, naturally occurring asbestos and Title 22 Metals analysis; and the collection of five yellow traffic stripe paint-chip samples for lead and chromium analysis. Additionally, a bridge survey report prepared in February of 2000 is attached to this report as an Appendix.

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.

David W. Bieber, PGP, CEG, CHG
Senior Geologist

Ian M. Stevenson, PG
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1.0 INTRODUCTION

This Aerially Deposited Lead (ADL), Naturally Occurring Asbestos (NOA), and Lead-containing Paint (LCP) Site Investigation and Bridge Survey Report was prepared under California Department of Transportation (Caltrans) Contract No. 03A1368 and Task Order (TO) No. 22, Expenditure Authorization 03-3A7121.

1.1 Project Description and Proposed Improvements

The Site consists of the Caltrans right-of-way along Highway 50 (ED-50) (the Site) from Post Mile (PM) 2.90 to 8.79, in El Dorado County, California. The approximate project location is depicted on the attached Vicinity Map, Figure 1. The Site and major roadway features are depicted on the Site Plans, Figure 2-1 through 2-15. Proposed improvements include the construction of high occupancy vehicle (HOV) lanes from west of the Bass Lake Road Undercrossing to east of the Ponderosa Road Undercrossing, and the construction of additional soundwalls along the westbound roadway shoulder.

1.2 General Objectives

The construction of an HOV lane and associated bridge and shoulder improvements along ED-50 will require the disturbance of soil, rock outcrops, and existing pavement at the Site. The purpose of the scope of services outlined in TO No. 22 was to evaluate the Site for potential impacts due to ADL from motor vehicle exhaust in the surface and near surface soils, evaluate the Site for the presence of NOA derived from serpentine and ultramafic rock within and adjacent to the project boundaries, evaluate proposed soundwall locations for NOA and Title 22 metals including lead associated with ADL, and evaluate the yellow median traffic stripe paint for lead and chromium content. An asbestos-containing material (ACM) investigation was previously conducted under Caltrans Contract No. 43A0012 and TO 03-3A7100-CR for the Bass Lake Road and Cameron Park Undercrossings. The report *Highway 50 Bridge Sites, El Dorado County, California*, dated February 3, 2000, is presented in Appendix A. The investigative results provided in this report will be used by Caltrans to inform the construction contractor if lead, NOA, or Title 22 metals-impacted soils, lead- or chromium-containing traffic stripe paint, or ACMs are present within the project boundaries for health, safety and disposal purposes.

2.0 BACKGROUND

The regulatory criteria used to classify a waste as "California hazardous" for handling and disposal purposes are contained in 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, Section 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.

For waste containing metals, the waste is classified as California hazardous when: 1) the total metal content exceeds the respective Total Threshold Limit Concentration (TTLC); or 2) the soluble metal content 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. However, if sufficient data is available to perform a statistical evaluation of the probability that the metals content of a waste material will not exceed ten times the STLC, WET analysis is not required on the individual samples used to characterize that waste material. A material is classified as RCRA hazardous, or Federal hazardous, when the soluble metal content exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure.

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., 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 lead 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." Therefore, lead-impacted soil that is scarified in-place, moisture-conditioned and recompacted during roadway 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.

2.2 Naturally Occurring Asbestos

The California Air Resources Board (CARB) has mitigation practices outlined in Title 17 CCR, Section 93105 for construction, grading, quarrying, and surface mining operations that may disturb natural occurrences of asbestos. NOA potentially poses a health hazard when it becomes an airborne particulate. The roadway improvement activities proposed on the Site could disturb NOA-containing rock and soil, thereby potentially creating an airborne asbestos hazard. Mitigation practices can reduce the risk of exposure to asbestos-containing dust. The primary mitigation practice used for controlling exposure to potentially asbestos-containing dust is the implementation of engineering controls including wetting the materials being disturbed. If engineering controls do not adequately control exposure to potentially asbestos-containing dust, the use of personal protective equipment including wearing an approved high efficiency particulate air filter equipped respirator is required during construction activities. Asbestos dust control methods similar to those in Title 17 CCR, Section 93105 are outlined in Title 17 CCR, Section 93106 for airborne asbestos in road surfacing applications. Using surfacing material with 0.25% or more asbestos material is not permitted and wetting of the material or the application of a surface sealant is recommended to minimize disturbance of the asbestos material. Onsite reuse or disposal of NOA-containing materials is allowed by 17 CCR 93106 and 17 CCR 93105 if it is buried under at least 0.25 foot of material that contains less than 0.25% NOA.

2.3 Lead and Chromium-containing Paint

Yellow traffic stripe paint utilized by Caltrans may contain lead-chromate. The presence of elevated lead and chromium requires sampling and analytical testing of the paint stripe materials to determine appropriate health and safety procedures and proper management and disposal practices. Disposal of removed traffic stripe paint materials is dependent on the method utilized to remove these materials (i.e. focused stripe removal vs. pavement grinding).

3.0 SCOPE OF SERVICES

The scope of services requested by Caltrans in TO No. 22 included the collection of soil samples for analysis to determine lead, asbestos, and Title 22 metals content; the collection of traffic stripe paint samples for analysis to determine lead and chromium content; the performance of a geologic assessment of the Site to help determine whether potentially asbestos-bearing soil or rocks are present, and the preparation of this report.

3.1 Pre-field Activities

- Conducted a Task Order Meeting on November 20, 2007, to discuss the TO scope of services. Caltrans Quality Assurance (QA) Manager Rajive Chadha, and Geocon field manager Ian Stevenson attended the meeting. The purpose of the Task Order Meeting was to identify and observe the project boundaries and conditions and mark the project limits with white paint.

- Prepared a *Health and Safety Plan* dated November 21, 2007, to provide guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.
- Prepared a *Workplan* dated November 26, 2007, which describes the requested scope of services and quality assurance/quality control (QA/QC) sampling and laboratory procedures.
- Reviewed existing geological maps and studies of the Site and surrounding areas for information on the potential presence of NOA.
- Provided 48-hour notification to Underground Service Alert prior to job site mobilization.
- Retained the services of Creek Environmental Laboratories, Inc. (Creek), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of samples.
- Retained the services of EMSL Inc., a Caltrans-approved and California-certified analytical laboratory, to perform the asbestos analyses of samples.

3.2 Field Activities

A preliminary geological reconnaissance was performed on November 20, 2007, by Ian Stevenson, a California, Professional Geologist (PG No. 8203) with experience in the assessment of NOA. On November 26 and 27, 2007, and January 15 and 16, 2008, we collected 260 soil samples for lead analysis and 36 soil samples for Title 22 metals analysis from 100 direct-push borings and 4 hand-auger borings; 189 soil samples from the direct-push and hand-auger borings and one rock chip sample for asbestos analysis; and 5 traffic stripe paint samples for LCP analysis were collected from the yellow median stripe.

Following sample collection, the borings were backfilled with the soil cuttings. Details of the field activities are presented in the following sections.

The sample locations were selected in the field by the Geocon field supervisor and Caltrans QA Manager. The locations of the borings were determined using a differential global positioning system (GPS) capable of providing a horizontal position with an error of no more than 3.3 feet (ft).

4.0 INVESTIGATIVE METHODS

4.1 ADL Investigation

We collected 260 soil samples for lead analysis from 100 direct-push borings and 4 hand-auger borings advanced at the Site. We advanced 48 direct-push borings (B18 through B20, B134 through B181) along the median of westbound ED-50, and 44 direct-push borings (B16 through B17, B50 through B91) along the median of eastbound ED-50 for the collection of soil samples for lead analysis. Eight direct-push borings (B187 through B194) and four hand-auger borings (B46 through B49) were advanced along the westbound shoulder of ED-50 at proposed sound-wall locations for Title 22 Metals analysis.

The position in latitude and longitude of each boring, as determined using the GPS, is identified on the Summary of Soil Boring and Traffic Stripe Paint Sample Coordinates, Table 1. A Summary of Lead and Soil pH Analytical Results is presented in Table 2. A Summary of Title 22 Metals Analytical Results is presented in Table 3. The approximate soil boring locations are depicted on Figures 2-1 through 2-15. The soil borings were advanced to an approximate maximum depth of 3.0 ft, using a direct-push rig or hand-auger. We collected the soil samples for lead analysis at general depths of 0.0 to 1.0 foot, 1.0 to 2.0 ft and 2.0 to 3.0 ft.

Borings were spaced at approximate 650-foot intervals along the unpaved median of east- and westbound ED-50. Borings were alternately drilled near the edge of pavement and approximately 15 feet into the median. Samples were generally composited by the laboratory four at a time by depth and proximity to edge of pavement. Borings in proposed soundwall locations were spaced at even intervals to facilitate the collection of four samples per wall.

Soil samples obtained from the direct-push borings were collected in cellulose thermoplastic (acetate) liners driven by the direct-push rig. After we collected a soil sample, the acetate liner that contained it was cut to separate the sub-samples by depth, then the sample from a particular interval was opened and transferred to a Ziploc® re-sealable plastic bag. The soil samples were field homogenized within the sample bags and subsequently labeled, placed in a chilled cooler, and delivered to Creek for analytical testing accompanied by chain-of-custody (COC) documentation.

4.2 NOA Investigation

Prior to sample collection, Ian Stevenson conducted a reconnaissance assessment of the rock and soil types present on the Site. Geologic conditions and materials conducive to the possible formation of NOA were observed throughout the length of the Site.

One hundred and eighty-nine soil samples were collected for asbestos analysis from 100 direct-push and 4 hand-auger borings from general depths of 0 to 1 foot and 2 to 3 ft. Additionally, one rock chip sample was collected from an outcrop in the median west of Bass Lake Road. The samples for NOA analysis were collected from 56 direct-push borings and 4 hand-auger borings advanced along the unpaved median and shoulder of westbound ED-50, and 44 direct-push borings advanced along the unpaved median of eastbound ED-50. Samples were generally collected in groups to be composited by the laboratory by depth and approximate PM range. The sample composites for NOA analysis are presented in Table 4, Summary of Asbestos Analytical Results.

The direct-push and hand-auger samples were composited by mile and depth. The samples collected for asbestos analysis from the east and westbound medians were segregated by depth and composited into

groups of two samples by post mile. Samples for asbestos analysis were taken as splits from the samples collected for lead analysis. Each split was transferred directly from the original Ziploc ® re-sealable plastic bag to a second one-quart Ziploc® re-sealable plastic bag.

The individual sample bags were labeled with a sample identification number, and the date and time collected. Samples for asbestos analysis were delivered to EMSL for asbestos analysis under COC protocol.

4.3 Lead and Chromium-containing Paint Investigation

Five paint samples for lead and chromium analysis were collected from the yellow traffic stripe. Two paint samples were collected from the yellow traffic stripe from east bound ED-50 and three paint samples were collected from the yellow traffic stripe of westbound ED-50. Samples were chipped from the pavement with a hammer and placed in a Ziploc® re-sealable plastic bag, labeled with sample identification, and the date and time of collection. Samples were delivered to Creek for analysis under COC protocol. Lead and chromium results are presented in Table 5, Summary of Traffic Stripe Paint Sample Analytical Results – Lead and Chromium.

4.4 Traffic Control

Caltrans maintenance provided an attenuator truck for traffic control during the field work.

4.5 Quality Assurance/Quality Control Procedures

QA/QC procedures were performed during the field exploration activities. These procedures included noting the general soil type for each boring on the field logs, 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 each boring 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 right-of-way, away from the roadway and storm drain inlets.

4.6 Laboratory Analyses

4.6.1 Aerially Deposited Lead Samples

The soil samples for lead analysis were analyzed by Creek on a ten-day turn-around-time (TAT) basis for the following analysis:

- Two hundred and sixty soil samples were analyzed as 71 composite samples for total lead following United States Environmental Protection Agency (EPA) Test Method 6010B.
- Eight randomly selected soil samples were analyzed for soil pH using EPA Test Method 9045.

- Six samples were analyzed for WET soluble lead following EPA Test Method 6020.
- Thirty-six soil samples from three proposed sound-wall locations were analyzed as nine composite samples for Title 22 metals following EPA Test Method 6020.

4.6.2 Naturally Occurring Asbestos Samples

Soil samples were submitted to EMSL for asbestos fiber analysis by CARB Method 435 on a six- to ten-day TAT basis. The CARB 435 preparation includes milling the sample to a -200 mesh size which also homogenizes the sample. EMSL analyzed the samples as follows:

- One hundred and eighty-nine soil samples were analyzed as 30 composite samples by the polarized light microscopy (PLM) method for asbestos by CARB Method 435 (CARB 435). The analytical sensitivity of the PLM analysis was 0.25% by area.
- One rock chip sample was analyzed by the PLM method by CARB 435. The analytical sensitivity of the PLM analysis was 0.25% by area.

4.6.3 Lead and Chromium-containing Paint Samples

Five yellow median traffic stripe paint samples, two from the eastbound yellow stripe and three from westbound yellow stripe, were analyzed by Creek on a ten-day TAT for total lead and chromium following EPA Test Method 6010B.

4.6.4 Laboratory QA/QC Procedures

QA/QC procedures were performed as applicable for each method of analysis with specificity for each analyte listed in the test method's QA/QC. QA/QC measures for the various metals analyses 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 chain-of-custody documentation was reviewed for accuracy and completeness. Reproductions of the laboratory reports and chain-of-custody documentation are presented in Appendix B.

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Site Geology

We reviewed the California Geological Survey's (CGS) *Geologic Map of the Sacramento Quadrangle* (CGS 1987) prior to beginning the field work to gather information regarding the potential presence of NOA on the Site. The depicted geologic materials on or adjacent to the Site as shown on the *Sacramento Quadrangle* are primarily Mesozoic Gabbroic and Ultramafic rocks and Jurassic Metavolcanic rocks. Minor Jurassic Metasedimentary rocks are also mapped at the Site.

The *El Dorado County Asbestos Review Areas Map* was also reviewed. The area from Bass Lake Road to Deer Creek approximately 0.4 mile east of Cambridge Road is within a *Quarter Mile Buffer Zone for More Likely to Contain Asbestos or Fault Line* area or *More Likely to Contain Asbestos* area. Approximately 0.7 mile east of Cambridge Road an additional 0.3 mile of ED-50 is within a *Quarter Mile Buffer Zone for More Likely to Contain Asbestos or Fault Line* area. The area from approximately 0.6 mile west of Ponderosa Road to PM 8.79 is within a *Quarter Mile Buffer Zone for More Likely to Contain Asbestos or Fault Line* area or *More Likely to Contain Asbestos* area.

Ian Stevenson performed a NOA assessment of the lithology of outcrops visible within the Caltrans right-of-way. The observed geology is consistent with that depicted on the *Sacramento Quadrangle*. Visible outcrops on the shoulder and within the remainder of the median of ED-50 consisted of gabbros and metavolcanics.

The soils encountered during the advancement of the direct-push and hand-auger borings were composed primarily of olive gray gravel with sand and yellowish brown clayey sand to brown sand with silt. Groundwater was not encountered during the investigation.

5.2 ADL Soil Analytical Results

Total lead was detected in 61 of the 71 composite soil samples analyzed at concentrations ranging from 0.5 to 150 milligrams per kilogram (mg/kg). Six of the 71 composite soil samples had a reported total lead concentration greater than 50 mg/kg (i.e., greater than ten times the STLC value for lead of 5.0 milligrams per liter [mg/l]). WET soluble lead was reported for each of the six samples analyzed with concentrations ranging from 2.1 to 6.0 mg/l. Soil pH values ranged from 6.9 to 7.7. Lead and pH analytical results are presented in Table 2. Thirty-six soil samples were additionally analyzed as nine composite samples by Creek for Title 22 metals. Cadmium, cobalt, copper, and vanadium were reported at levels above published background levels. Lead was reported at concentrations ranging from 0.9 to 95 mg/kg. The remainder of the Title 22 metals was reported at concentrations below published background levels. A Summary of Title 22 Metals Analytical Results is presented in Table 3. Laboratory reports and COC documentation are presented in Appendix B.

5.3 Statistical Evaluation for Lead Detected in Soil Samples

Statistical analysis was performed on two sample populations as requested by Caltrans. Sample population 'A' consists of soil samples collected along the median including borings B16 through B20, B50 through B91, B134 through B155 and B161 through B182. Sample population 'B' consists of soil samples collected along the westbound shoulder at proposed sound-wall locations and includes borings B46 through B49 and B187 through B194.

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 soluble lead concentrations exists that would allow the prediction of soluble lead concentrations based on calculated UCLs. The statistical methods used are discussed in a book entitled *Statistical Methods for Environmental Pollution Monitoring,* by Richard Gilbert; in an EPA *Technology Support Center Issue* document entitled, *The Lognormal Distribution in Environmental Applications,* by Ashok Singh et. al., dated December 1997; and in a book entitled *An Introduction to the Bootstrap,* by Bradley Efron and Robert J. Tibshirani.

5.3.1 Calculating the UCLs for the True Mean

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 the 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.

Non-parametric bootstrap techniques used to calculate the UCLs are discussed in the previously referenced EPA document and in *An Introduction to the Bootstrap.* For those samples in which total lead was not detected at concentrations exceeding the laboratory method detection limit, a value equal to one-half of the detection limit was used in the UCL calculation. The bootstrap results are presented in Appendix C. The calculated UCLs and statistical results are summarized in the table below:

Sample Population 'A'
(Borings B16 through B20, B50 through B91, B134 through B155 and B161 through B182 - Median)

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 1.0	47.5	49.5	39.1	3.1	150
1.0 to 2.0	4.1	4.4	3.1	0.5	20
2.0 to 3.0	7.0	7.8	4.0	0.5	56

Sample Population B
(Borings B46 through B49 and B187 through B194 – Soundwall)

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 3.0	35.6	38.7	21.7	0.9	95

* UCLs could not be calculated for each sample interval due to insufficient number of data, thus UCLs were calculated using all samples collected from this area.

5.4 NOA Results

Thirty composite soil samples were analyzed by EMSL for asbestos by the PLM method using the CARB 435 sample preparation method. An additional rock chip sample was analyzed by the PLM method and CARB 435 sample preparation. A summary of asbestos analytical results is presented in Table 4. Laboratory reports and COC documentation are presented in Appendix B.

One sample (NOA24) was reported to contain asbestos below the CARB regulatory action limit of 0.25% and the rest were reported as non-detect. TEM analysis was not performed on sample NOA24 because of the low percentage of asbestos reported. Additionally, TEM analysis is primarily used to determine the type of asbestos present and was not deemed necessary for this study.

5.5 Lead-containing Paint Sample Analytical Results

Five paint-chip samples were collected from the yellow median traffic stripe within the project boundaries. Paint-chip samples were analyzed for total lead and chromium. The analytical results of the LCP samples are summarized in Table 5. Laboratory reports and COC documentation are presented in Appendix B.

Total lead and chromium were detected in each sample submitted for analysis. Total lead was reported to range from 290 to 1,000 mg/kg, at or less than the California hazardous waste threshold (TTLC) for lead of 1,000 mg/kg. Total chromium was reported to range from 90 to 240 mg/kg, less than the California hazardous waste threshold (TTLC) for chromium of 2,500 mg/kg. Since the samples were only collected for screening purposes, WET analysis was not performed.

5.6 Asbesto-containing Materials

The Bass Lake Road Undercrossing and the Cameron Park Undercrossing were investigated for ACMs under previous Caltrans Contract Number 43A0012 and TO 03-3A7100. Six guardrail shim samples were collected from the Bass Lake Road Undercrossing and five guardrail shim samples and two sheet packing samples were collected from the Cameron Park Undercrossing. The guardrail shim and sheet packing samples collected from the Bass Lake Road Undercrossing and Cameron Park Undercrossing were reported to contain 70% chrysotile asbestos by EPA Test Method 600/M4-82-020, PLM. A copy of the Asbestos Survey Report is presented in Appendix A.

5.7 Review of Laboratory QA/QC

We reviewed the Creek analytical laboratory QA/QC provided with the laboratory reports. The Creek Laboratory Quality Control Results show acceptable non-detect results for laboratory reagent blanks and acceptable recoveries for laboratory known samples. Matrix spike/matrix spike duplicate recoveries were reported below acceptable recovery limits for samples 07-C15375, 07-C15394, and 07-C15340. Duplicate samples 07-C15376 and 08-C912 were reported to have relative percent differences above the acceptable limit. However, the data are of sufficient quality for the purposes of this report. Based on this limited data review, no additional qualifications of the data presented herein are necessary.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Aerially Deposited Lead

Waste classifications based on the 90% UCL of the lead content for the relevant excavation depths has historically been considered sufficient to satisfy a good faith effort by the EPA as discussed in SW-846. Risk assessment characterization is typically based on the 95% UCL of the lead content in the waste for the relevant depths; this is in accordance with the Risk Assessment Guidance for Superfund (RAGS) Volume 1 Documentation for Exposure Assessment. Per Caltrans, the 90% UCLs are to be used to evaluate onsite reuse and the 95% UCLs are to be used to evaluate offsite disposal.

Soil materials excavated to a maximum depth of 3.0 ft would not be classified as a California hazardous waste since the calculated 90% total lead UCLs for the existing median and proposed shoulder soundwall areas are less than 50 mg/kg. Consequently, the top 3.0 ft of excavated soil could be reused or disposed as non-hazardous soil with respect to lead content.

6.2 Naturally Occurring Asbestos

The observed geology of the Site is indicative of a geologic environment where NOA minerals are likely to occur. One of the 31 composite soil and rock samples submitted for asbestos analysis were reported to contain chrysotile asbestos, though it was present below the regulatory limit of 0.25% by PLM. Although laboratory results are reported at less than 0.25%, they are the result of composite samples and the results may be higher or lower than the asbestos content of material at a specific location. However, Title 17 CCR, Section 93105 specifies that averaging of results is acceptable for characterization and compositing of samples is an accepted means of arriving at an average concentration. Therefore, the results of the composite analysis are acceptable for characterization of the NOA content of onsite materials with respect to handling and disposal.

Per Caltrans' requirements, to minimize the aerial dispersion of NOA the use of engineering controls as described in Title 17 CCR, Section 93105 will be required at the Site. Additionally, Caltrans requires the use of engineering controls including dust control/wet suppression for worker protection to minimize aerial dispersion of NOA fibers in planned work areas during excavation and grading activities at sites where NOA is present. However, since the average percent asbestos is less than 0.25% based on CARB 435 testing, soils generated from the site during construction may be reused onsite without restriction. If material is disposed of offsite, the accepting party must be notified that the material contains serpentine rock.

Construction/maintenance activities involving these asbestos-containing materials may fall under regulatory jurisdiction of the California Division of the Occupational Safety and Health Administration (Cal-OSHA) under CCR Title 8 Section 5208. Since NOA was detected on the Site, Caltrans requires

the use of engineering controls including dust control/wet suppression for worker protection to minimize aerial dispersion of NOA fibers in planned work areas during excavation and grading activities.

6.2.1 Asbestos Risk to Human Health

Currently, regulatory exposure limits and health hazard data are not available for NOA in soils. Federal regulations governing asbestos define it as the asbestiform variety of the amphibole minerals actinolite, amosite, anthophyllite, crocidolite, and tremolite, and the asbestiform variety of serpentine, chrysotile. Asbestos fibers occurring in industrial materials are considered by the National Institute for Occupational Safety and Health as potential occupational carcinogens. Prudence is recommended, therefore, in dealing with soils containing NOA. Engineering controls such as wet suppression should be utilized to minimize aerial dispersion of NOA fibers in planned work areas during excavation and construction activities. Under Title 8 Section 5208 of the CCR, disturbance of asbestos-containing materials requires wet working methods and possible respiratory protection and air monitoring. The CARB has established protocols outlined in Title 17, Section 93105 for the implementation of worker health, safety and monitoring plans for excavation, grading and transport of NOA-containing soils. The excavation contractor should consult Title 17, Section 93105 and contact Cal-OSHA to establish the appropriate regulatory protocol and actions necessary for excavation and/or disturbance of asbestos-containing soils.

6.3 Yellow Traffic Stripe Paint Waste Classification/Disposal

The yellow traffic paint stripe was sampled per Caltrans' request since it may be removed from the underlying asphalt concrete by grinding or sand blasting, which would create a paint waste stream. The highest reported levels of total lead and total chromium for the yellow traffic stripe paint samples were 1,000 and 240 mg/kg, respectively. Lead and chromium are present in the traffic stripe paint and the removal operation may result in the generation of a regulated waste. Prior to disposal, the paint waste stream should be resampled to confirm waste classification in accordance with specific disposal facility acceptance criteria since the total lead and chromium concentrations cannot be predicted and the paint samples were not analyzed for WET soluble lead and chromium.

6.3.1 Worker Protection

Per Caltrans requirements, the contractor(s) should prepare a project-specific Lead Compliance Plan (CCR Title 8, Section 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.

Since material at the Site contains lead and/or chromium and according to Caltrans, the yellow thermoplastic and yellow paint may produce toxic fumes when heated, we recommend that a health and safety plan be prepared to minimize worker exposure. The health and safety plan should include a discussion of the constituents of concern, routes of exposure, permissible exposure limits, and personal protective measures. The health and safety plan should be reviewed and signed by the onsite construction workers prior to any field activities. We also recommend that contractors on the Site grinding asphalt which has been coated with yellow paint prepare a dust control plan. The dust control plan should include dust mitigation and monitoring procedures.

6.4 Asbestos-containing Materials

The results of the ACM survey for the Bass Lake Road Undercrossing and the Cameron Park Undercrossing is presented in Appendix A. The 11 guardrail shim and 2 sheet packing samples collected from the Bass Lake Road Undercrossing and Cameron Park Undercrossing were reported to contain 70% chrysotile asbestos.

Guardrail shims are classified as Category I ACM (nonfriable/nonhazardous material) – asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products. National Emissions Standards for Hazardous Air Pollutants regulations do not require that the Category I material identified during our survey be removed prior to demolition or treated as hazardous waste. However, the disturbance of the material is still covered by the Cal-OSHA asbestos standard. We recommend that a licensed demolition contractor registered with Cal-OSHA for asbestos-related work (or a licensed and certified asbestos abatement contractor) perform demolition activities if the asbestos-containing sheet packing identified during our survey is left in-place during demolition. Contractors are responsible for segregating and characterizing waste streams prior to disposal, and for informing a receiving landfill of the contractor's intent to dispose of asbestos-containing waste.

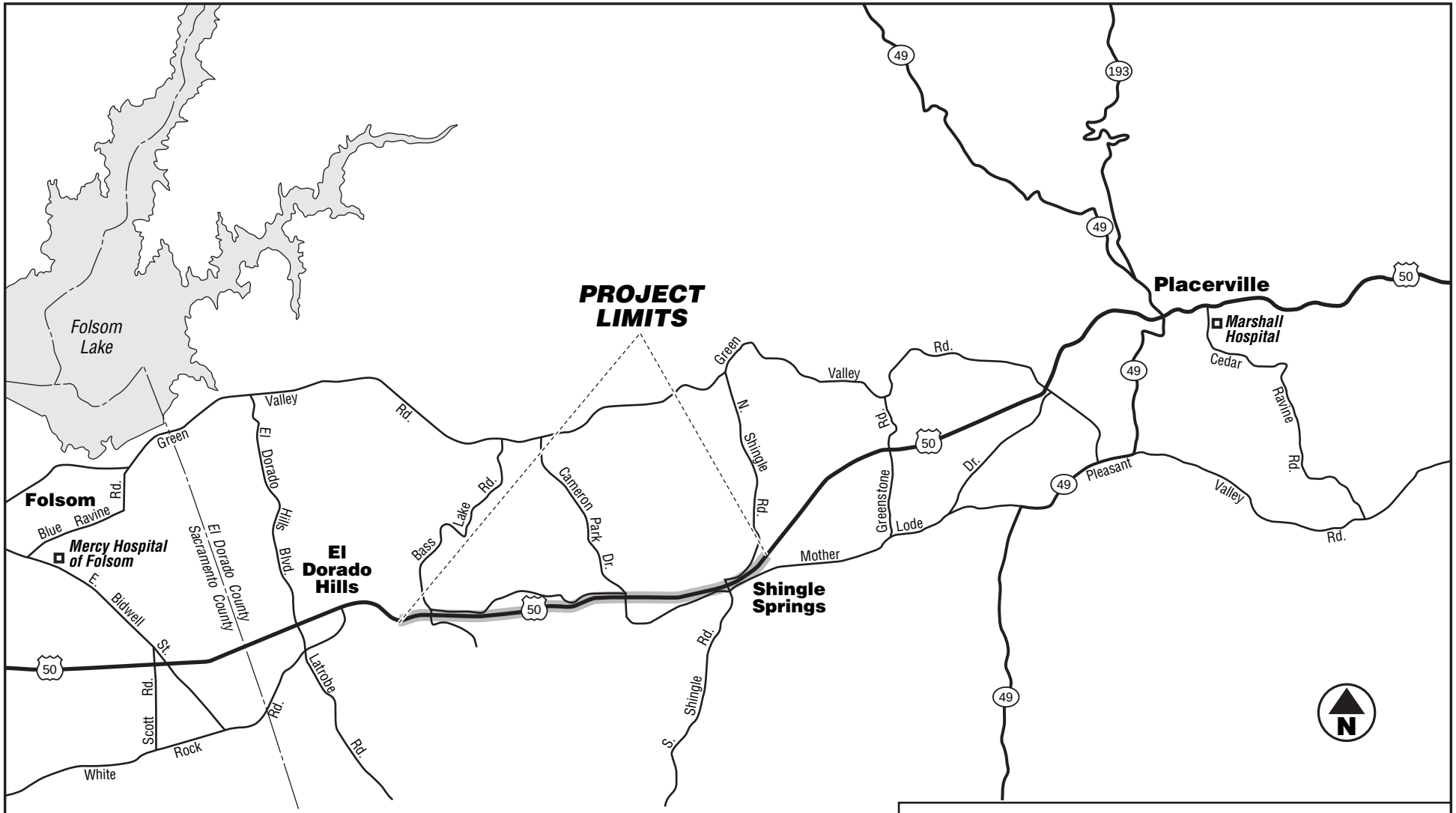
We also recommend the notification of contractors (that will be conducting renovation, demolition, or related activities) of the presence of asbestos in their areas (i.e., provide the contractor[s] with a copy of this report and a list of asbestos removed by asbestos abatement contractor[s] during subsequent abatement activities). Contractors should be instructed not to disturb asbestos during their work.

Written notification to EPA Region IX and the CARB is required ten working-days prior to the commencement of *any* demolition activity (whether asbestos is present or not) and for renovation activities involving specified quantities of regulated asbestos-containing material. For notification instructions, please refer to the following internet link: *http://www.arb.ca.gov/enf/asbestos/asbestosform.htm*. In accordance with Title 8, CCR 341.9, written notification to the nearest Cal-OSHA district office is required at least 24 hours prior to certain asbestos-related work.

7.0 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. Geocon 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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Highway 50 ADL & NOA

El Dorado County, California	**VICINITY MAP**
GEOCON Proj. No. S9300-06-22	
Task Order No. 22, EA 03-3A7121	March 2008 | Figure 1

LEGEND:

B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)

0 100
Scale in Feet

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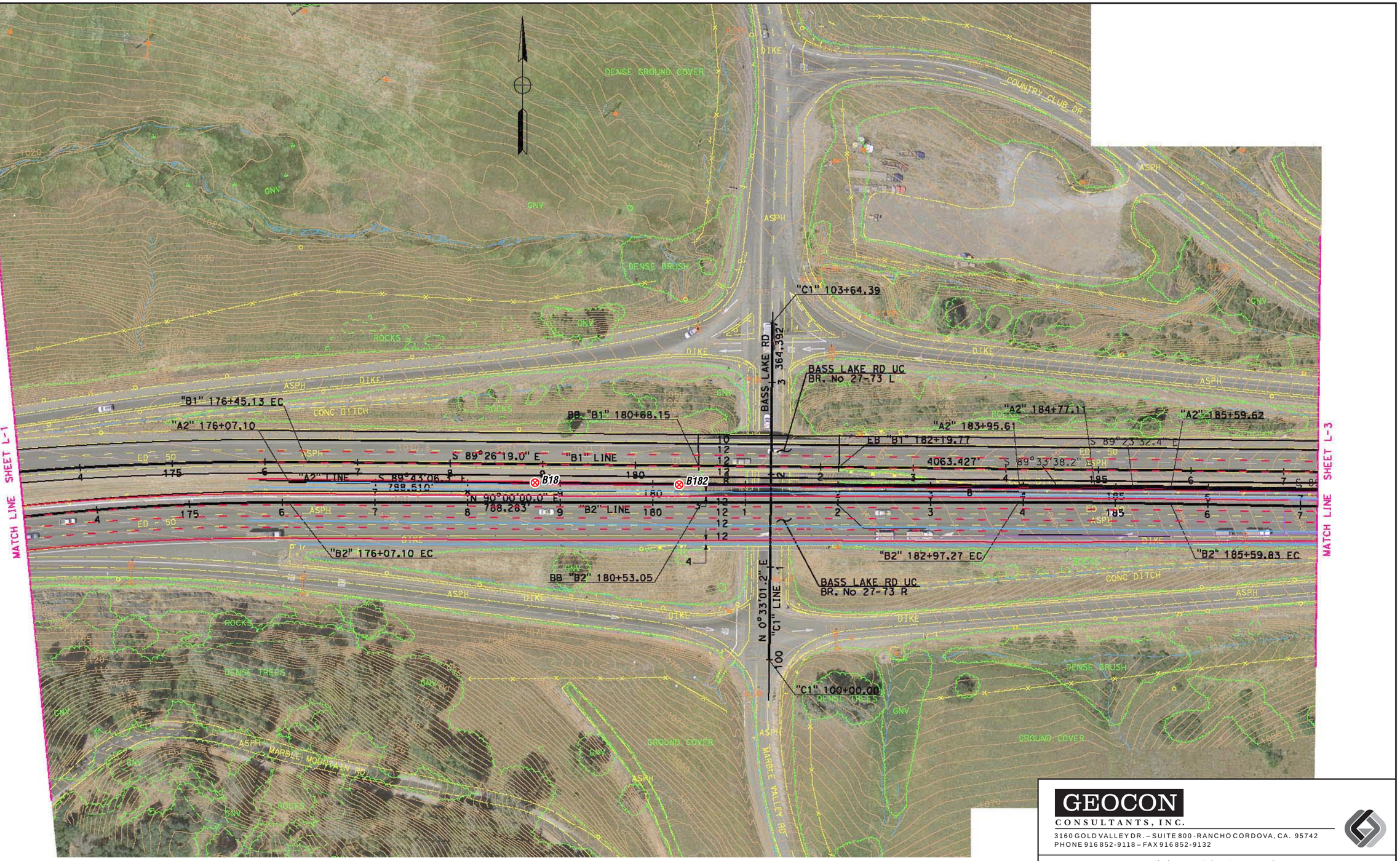
El Dorado County, California	**SITE PLAN**	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-1



LEGEND:

B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)

0 100
Scale in Feet

GEOCON
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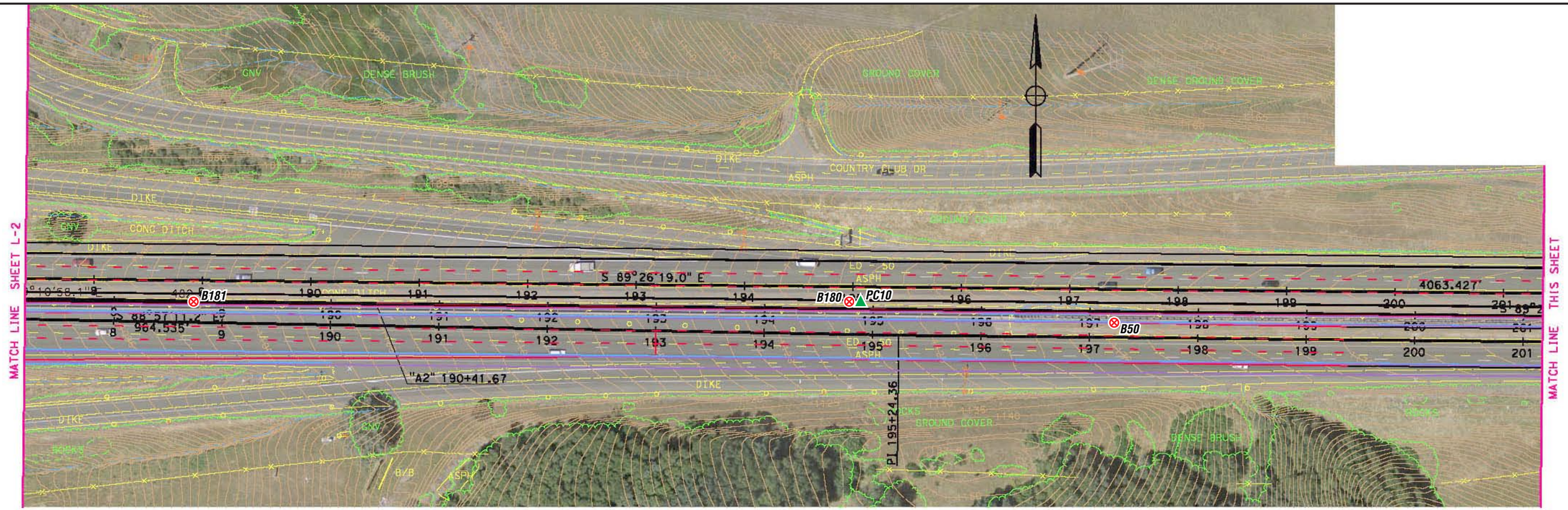
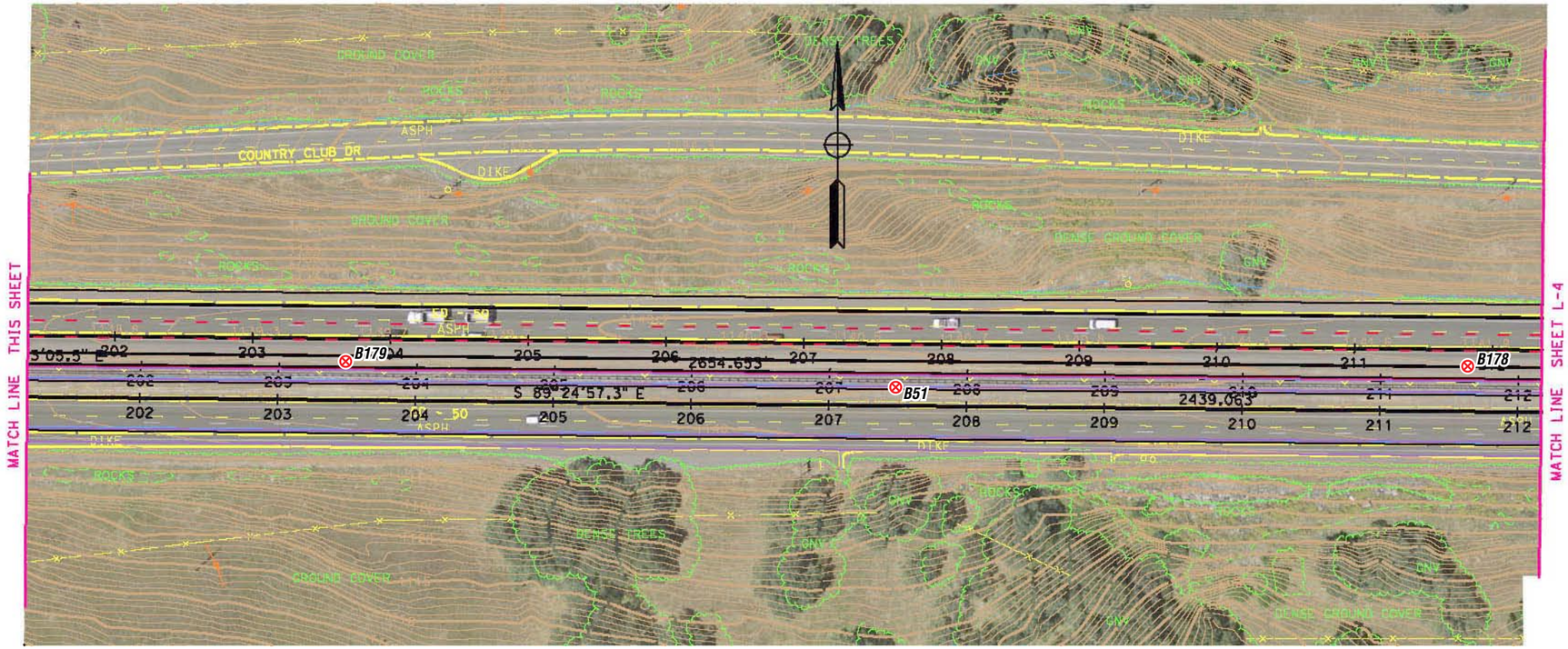
El Dorado County, California	**SITE PLAN**	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-2





LEGEND:

- B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)
- PC4 ▲ Approximate Paint Chip Sample Location

0 100
Scale in Feet

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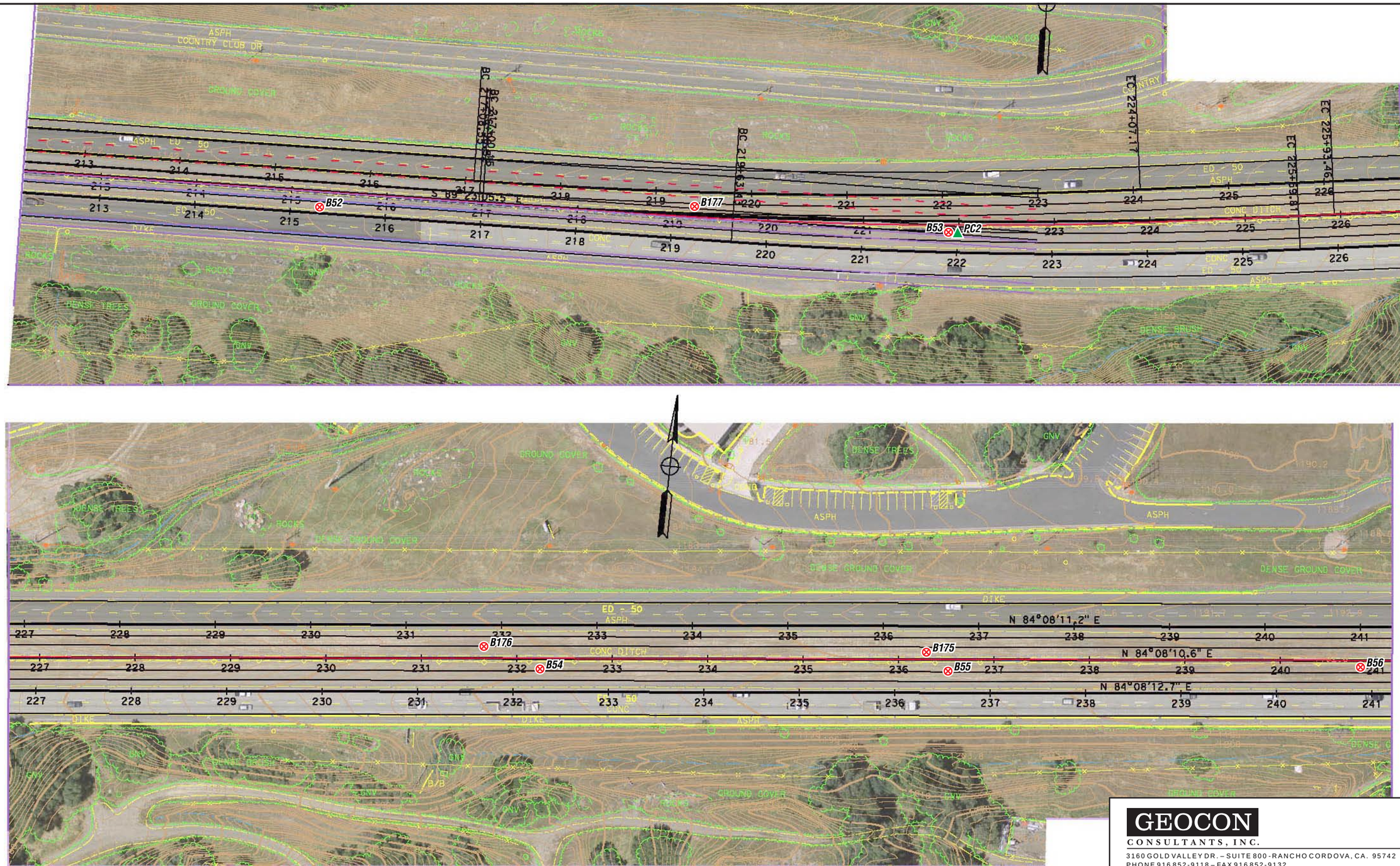
El Dorado County, California

SITE PLAN

GEOCON Proj. No. S9300-06-22

Task Order No. 22, EA 03-3A7121 | March 2008 | Figure 2-3



LEGEND:

- B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)
- PC4 ▲ Approximate Paint Chip Sample Location

0 100
Scale in Feet

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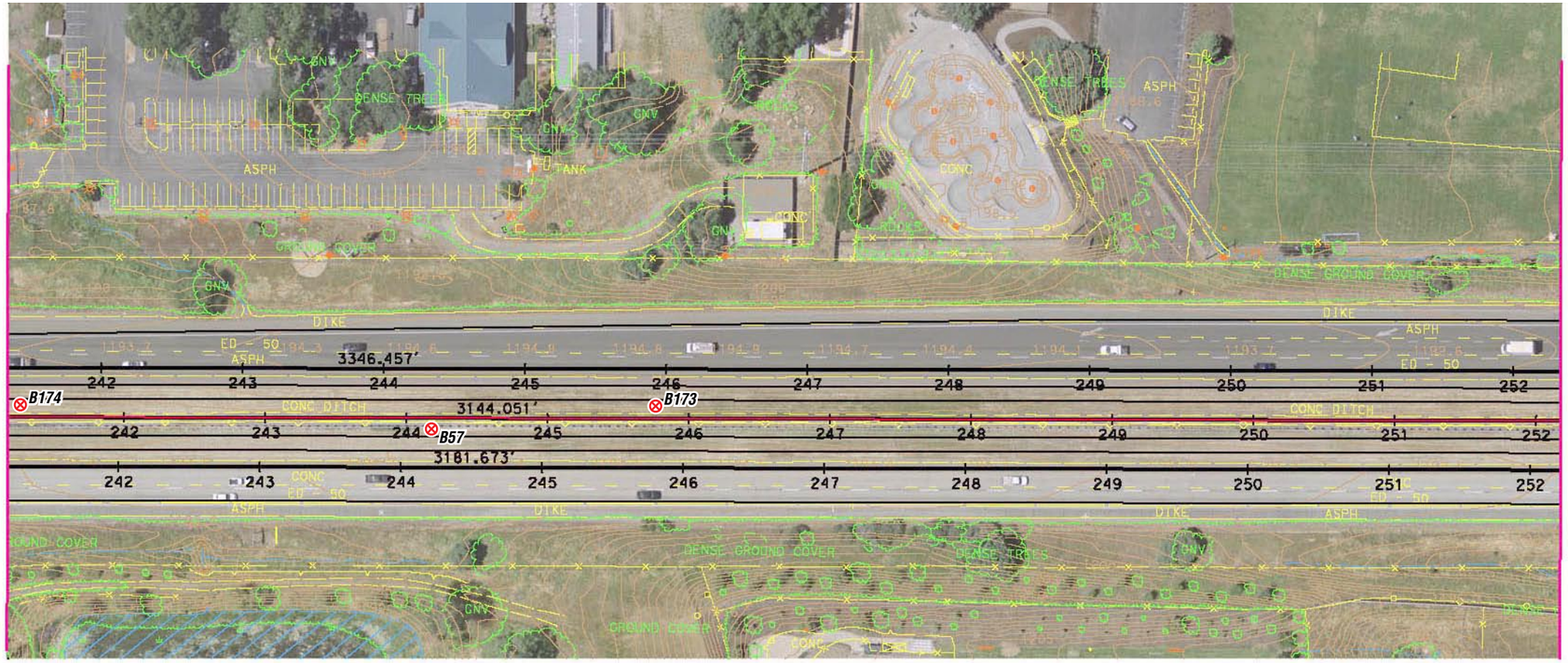
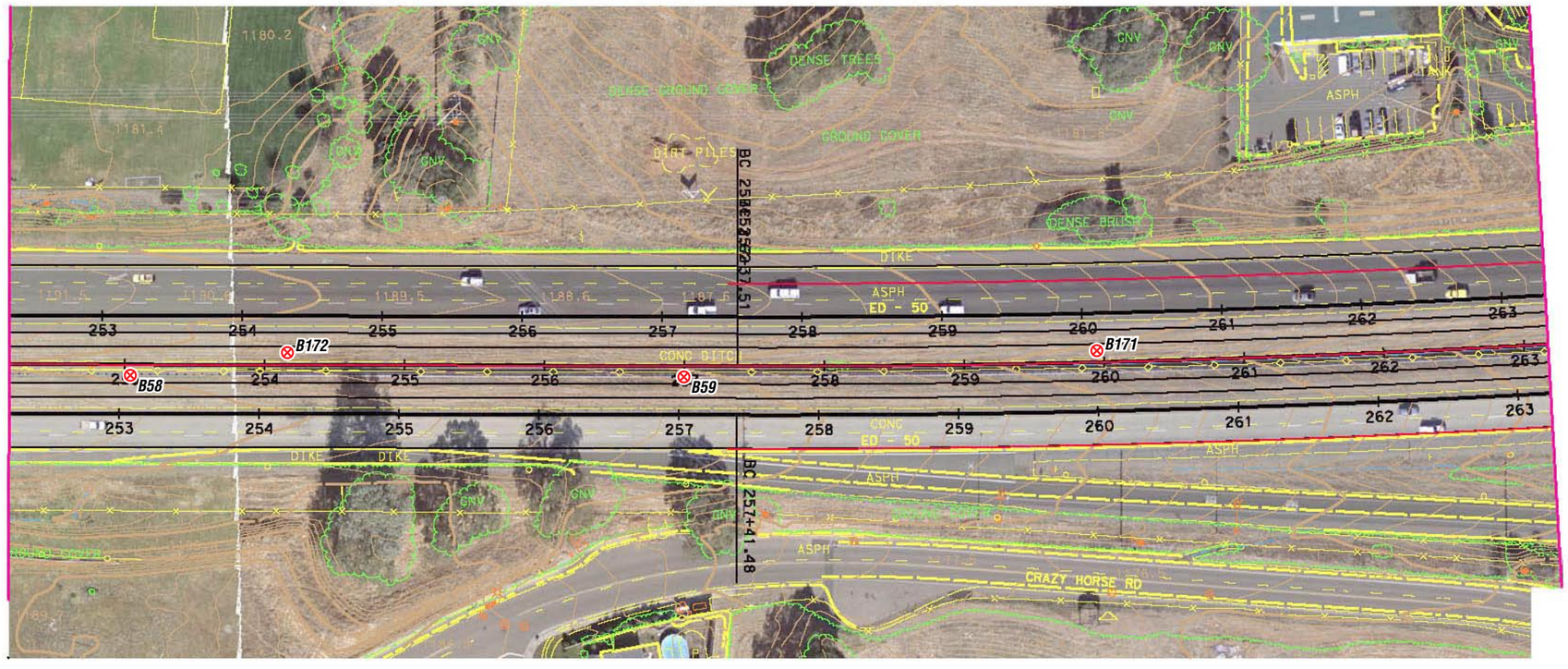
El Dorado County, California	**SITE PLAN**	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-4





LEGEND:

- B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)
- PC4 ▲ Approximate Paint Chip Sample Location

0 100

Scale in Feet

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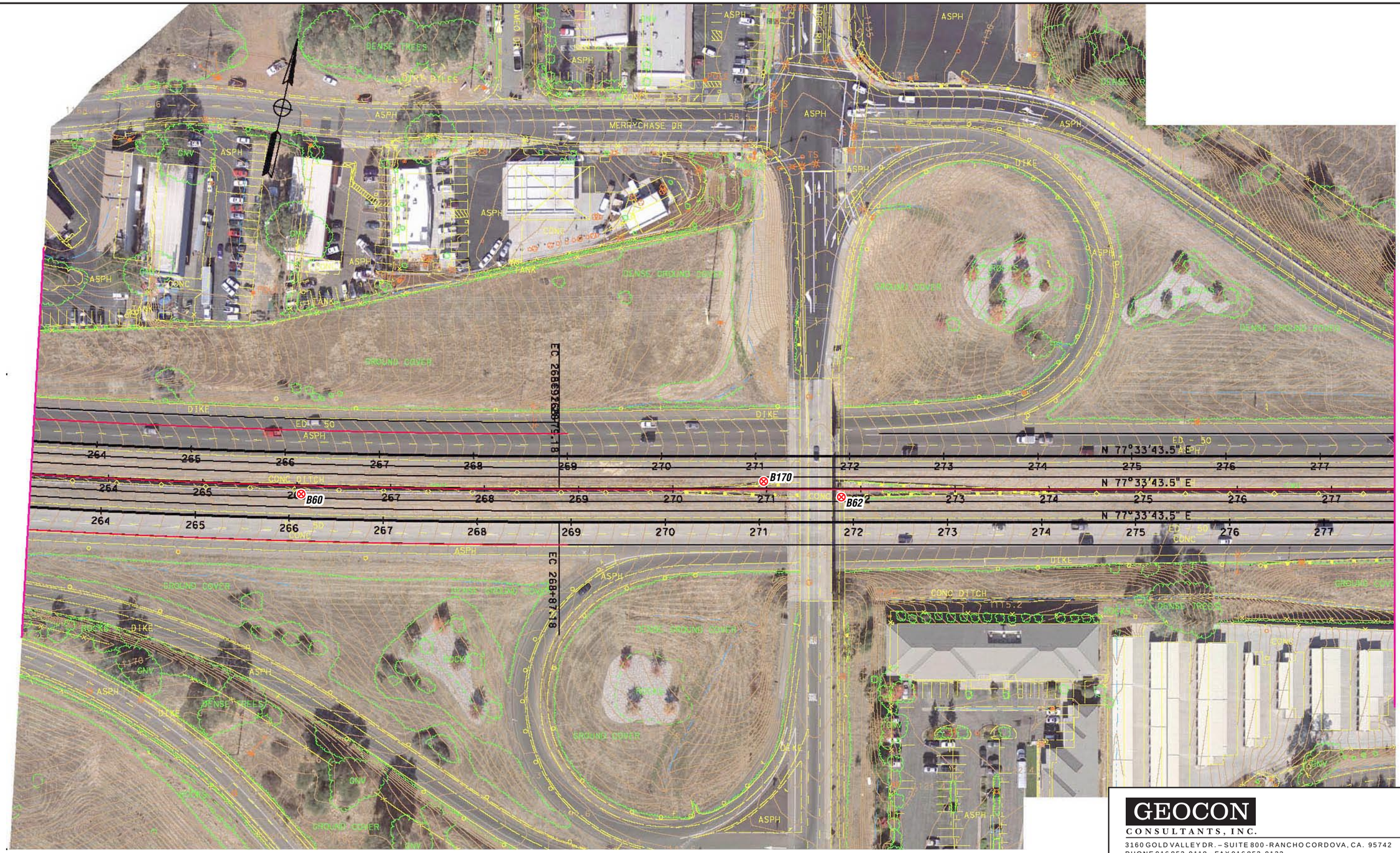
El Dorado County, California

SITE PLAN

GEOCON Proj. No. S9300-06-22

Task Order No. 22, EA 03-3A7121 | March 2008 | Figure 2-5



LEGEND:

B1⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)

0 100
Scale in Feet

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CONSULTANTS, INC.
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Highway 50 ADL & NOA

El Dorado County, California	**SITE PLAN**	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-6

LEGEND:

B1⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)

0 100
Scale in Feet

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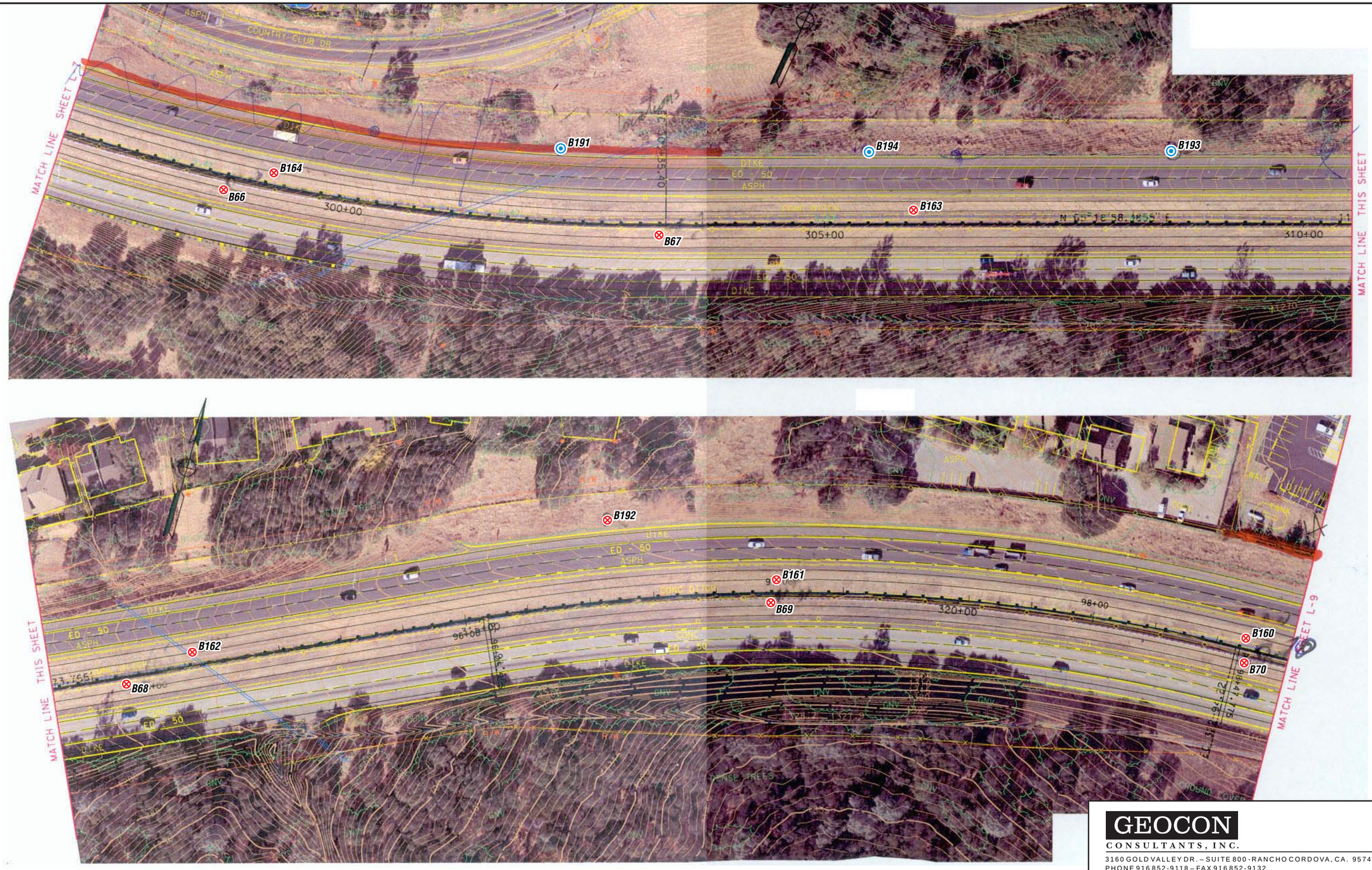
Highway 50 ADL & NOA

El Dorado County, California	SITE PLAN	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-7



LEGEND:

B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)

B191 ⊙ Approximate Naturally Occurring Asbestos & Title 22 Metals Sample Location (Soundwall)(Hand-Auger)

0 100
Scale in Feet

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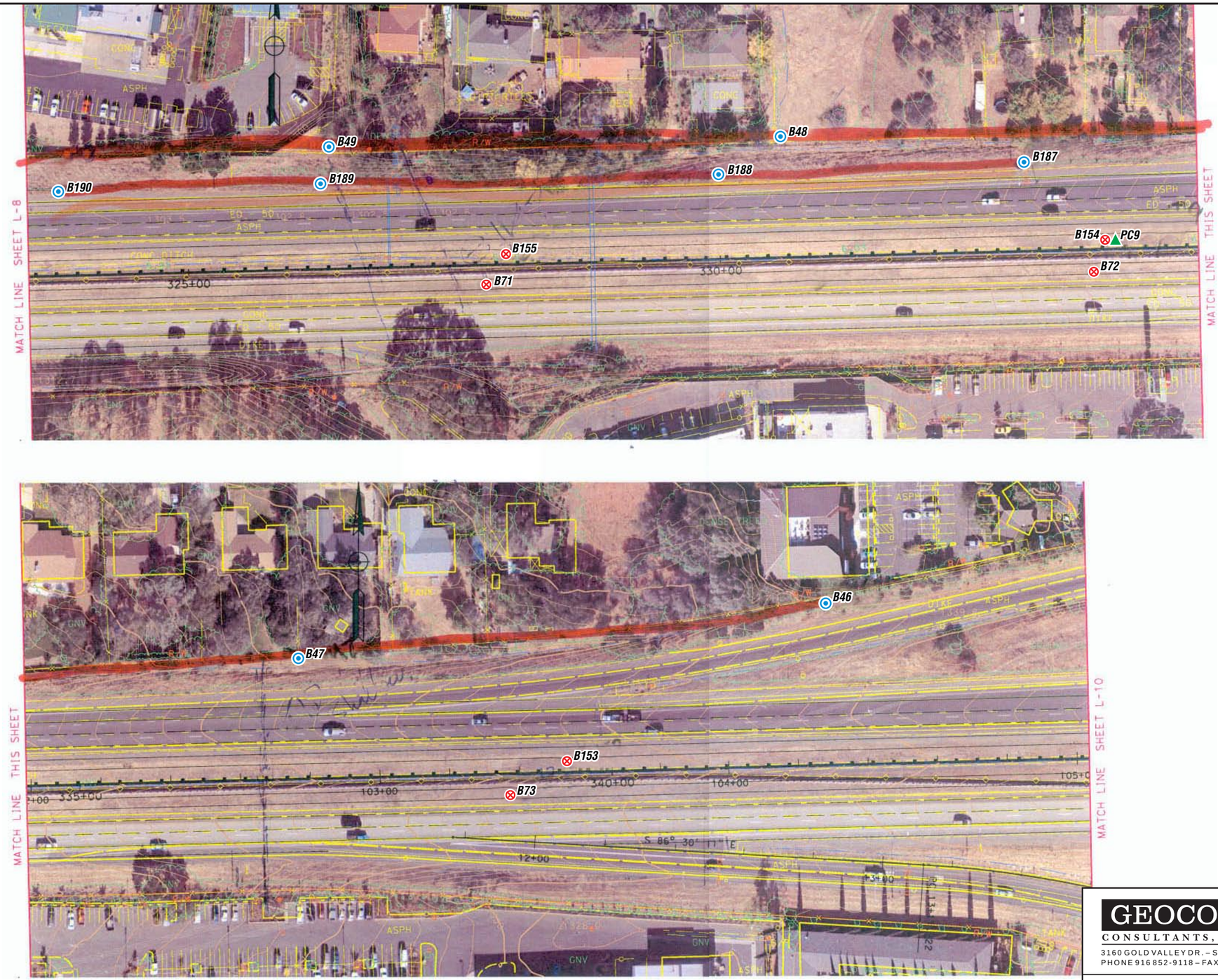
Highway 50 ADL & NOA

El Dorado County, California	**SITE PLAN**	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-8



LEGEND:

- B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)
- B191 ⊙ Approximate Naturally Occurring Asbestos & Title 22 Metals Sample Location (Soundwall)(Hand-Auger)
- PC4 ▲ Approximate Paint Chip Sample Location

0 100
Scale in Feet

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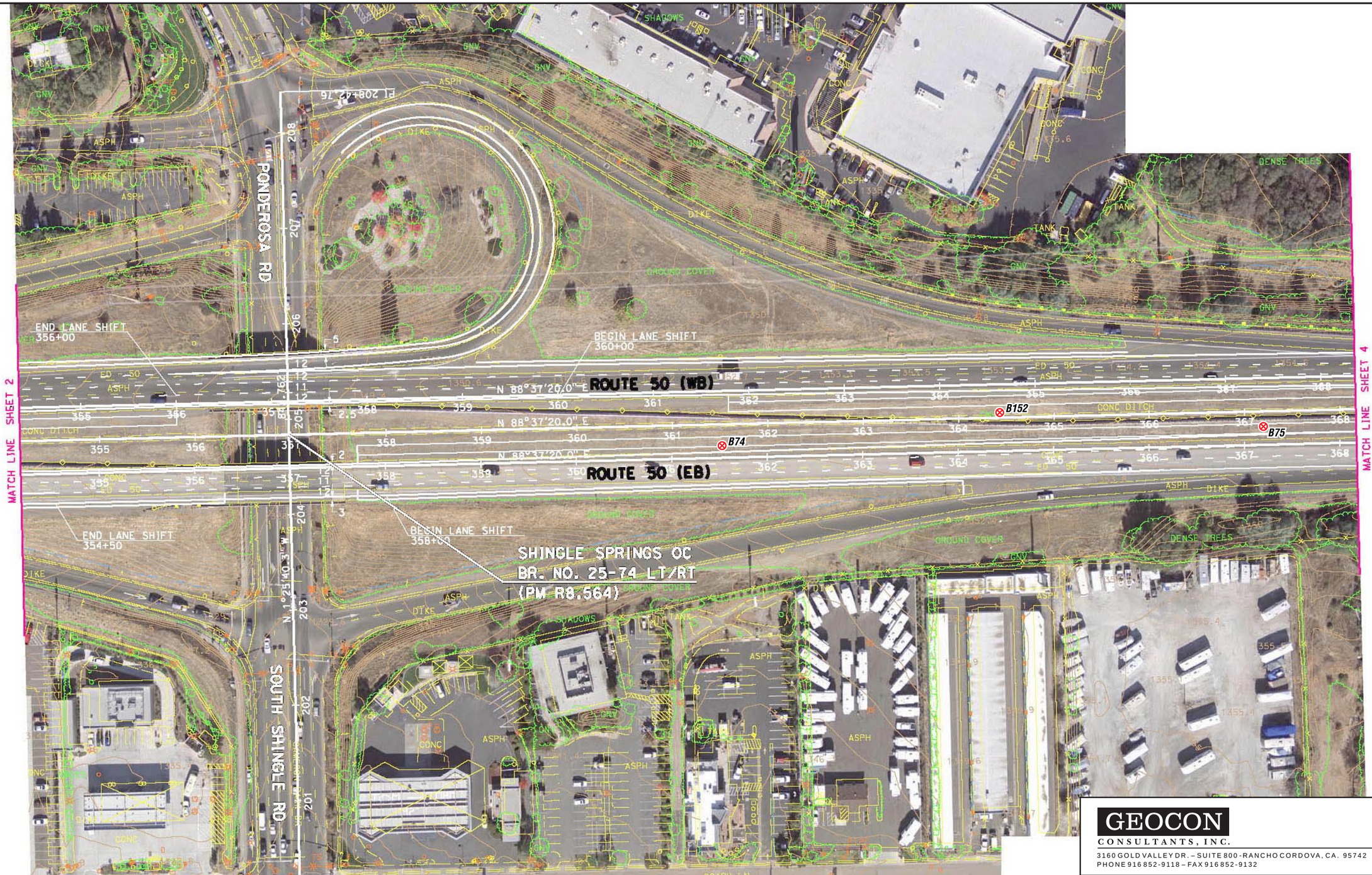
Highway 50 ADL & NOA

El Dorado County, California	**SITE PLAN**	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-9



LEGEND:

B1⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)

0 100
Scale in Feet

GEOCON
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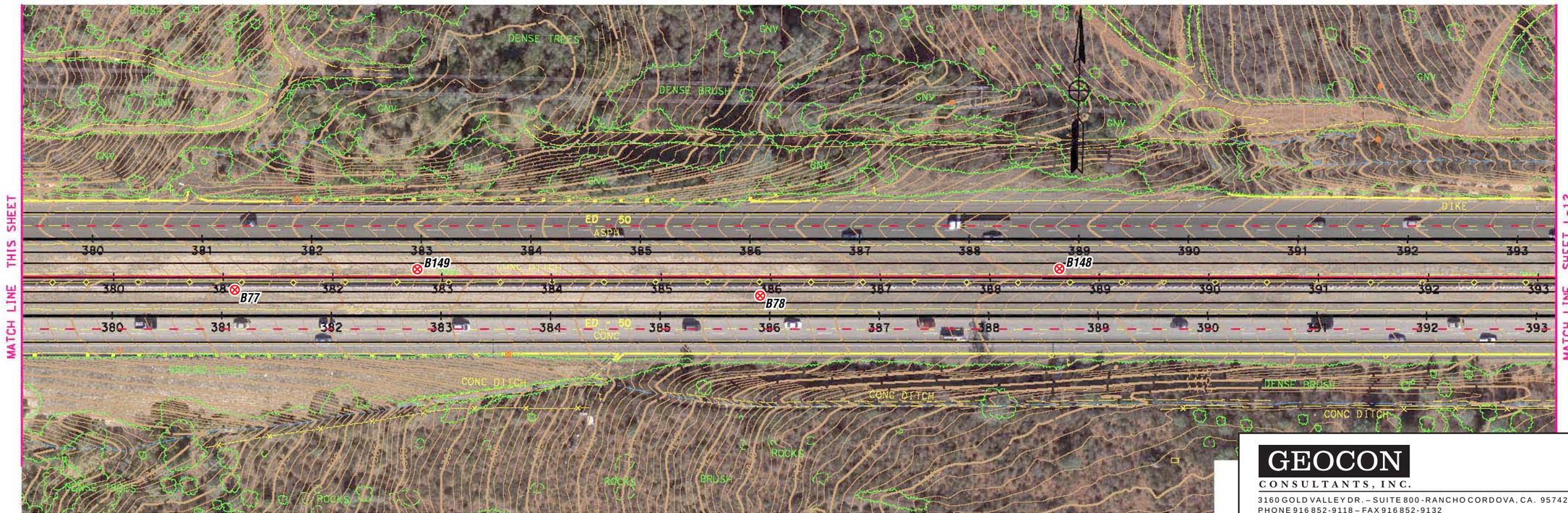
Highway 50 ADL & NOA

El Dorado County, California	**SITE PLAN**	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-10



LEGEND:

- B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)
- PC4 ▲ Approximate Paint Chip Sample Location

0 100
Scale in Feet

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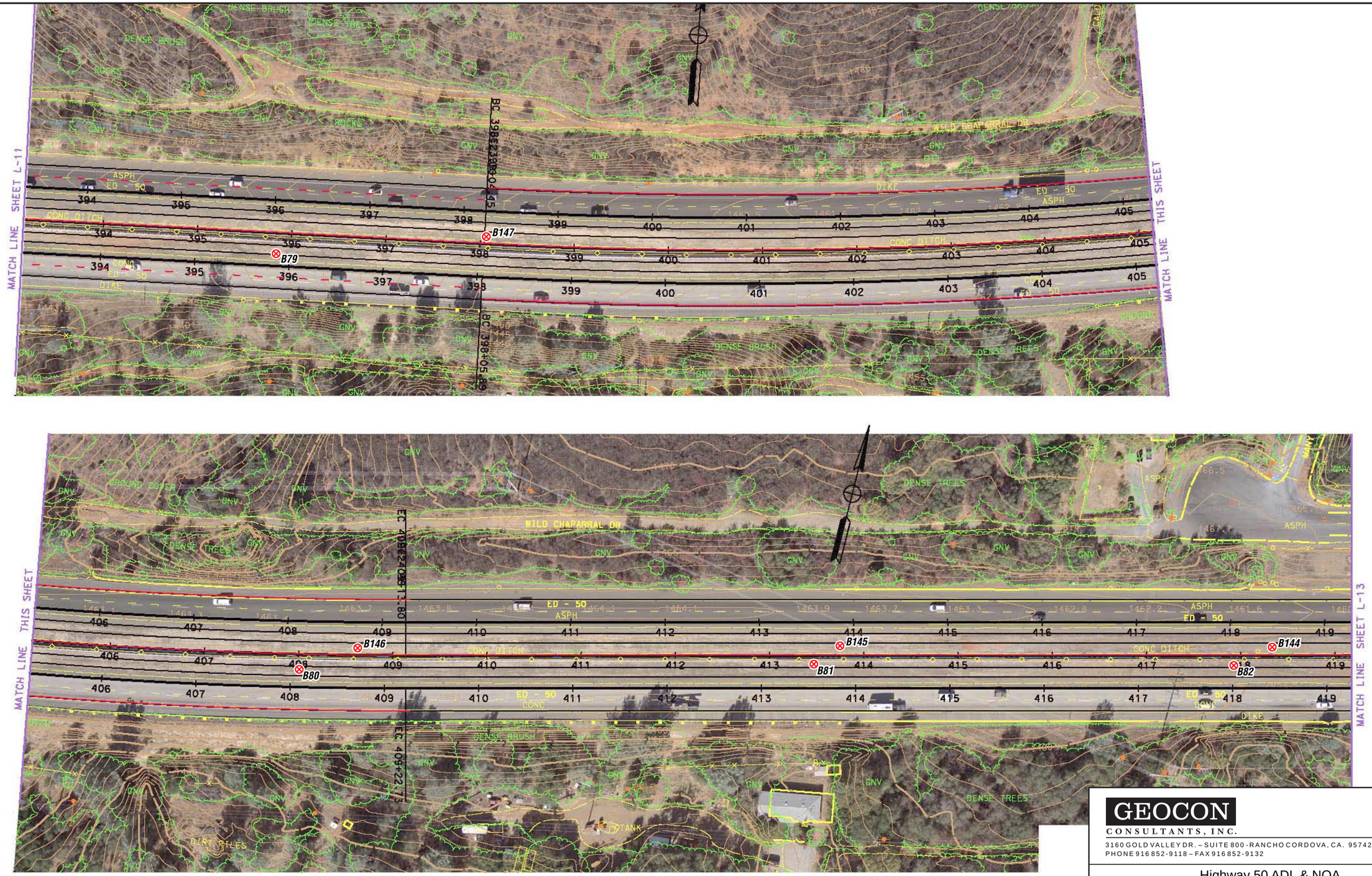
El Dorado County, California	**SITE PLAN**	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-11



LEGEND:

B1⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)

0 100
Scale in Feet

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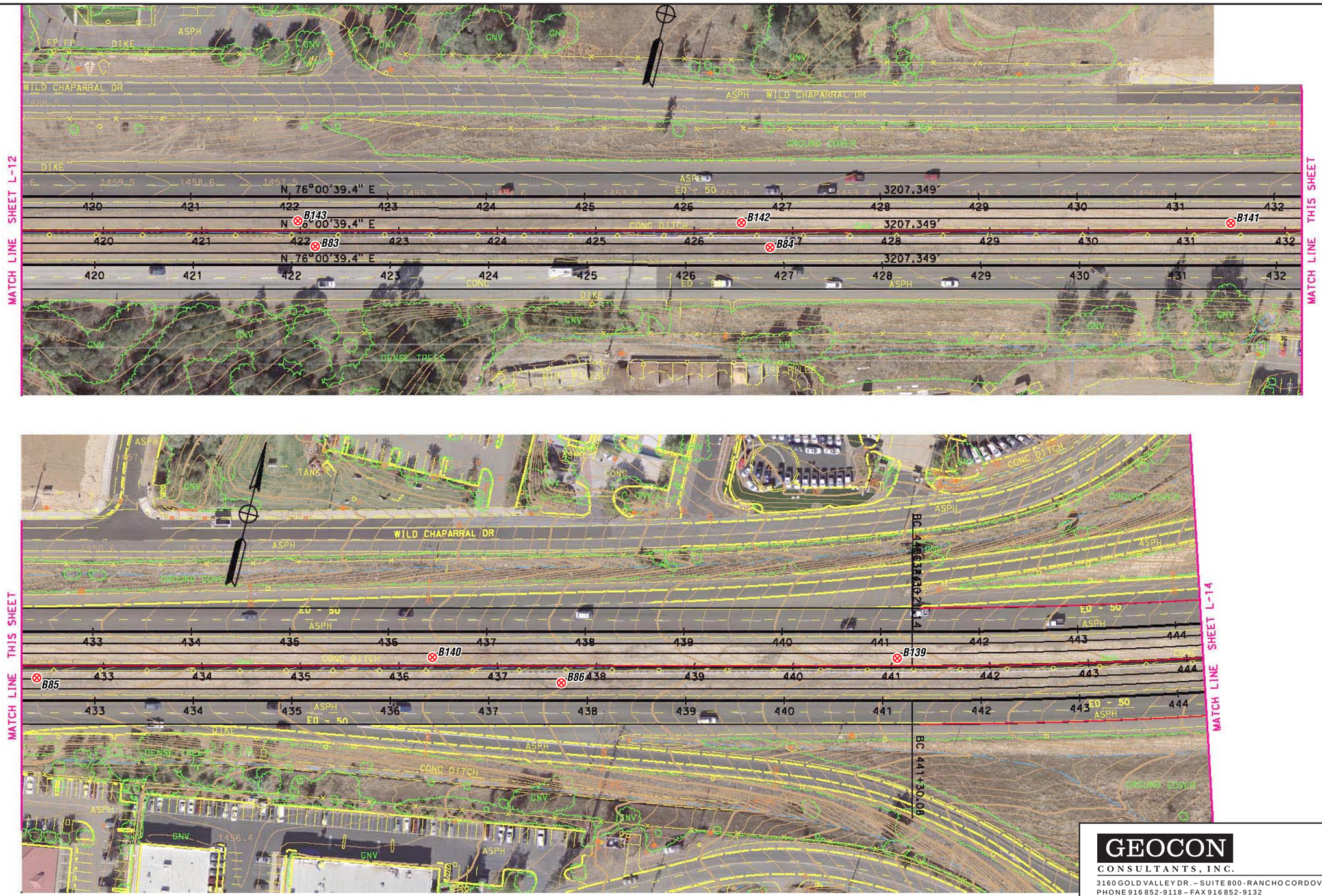
Highway 50 ADL & NOA

El Dorado County, California	**SITE PLAN**	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-12



LEGEND:

B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)

0 100
Scale in Feet

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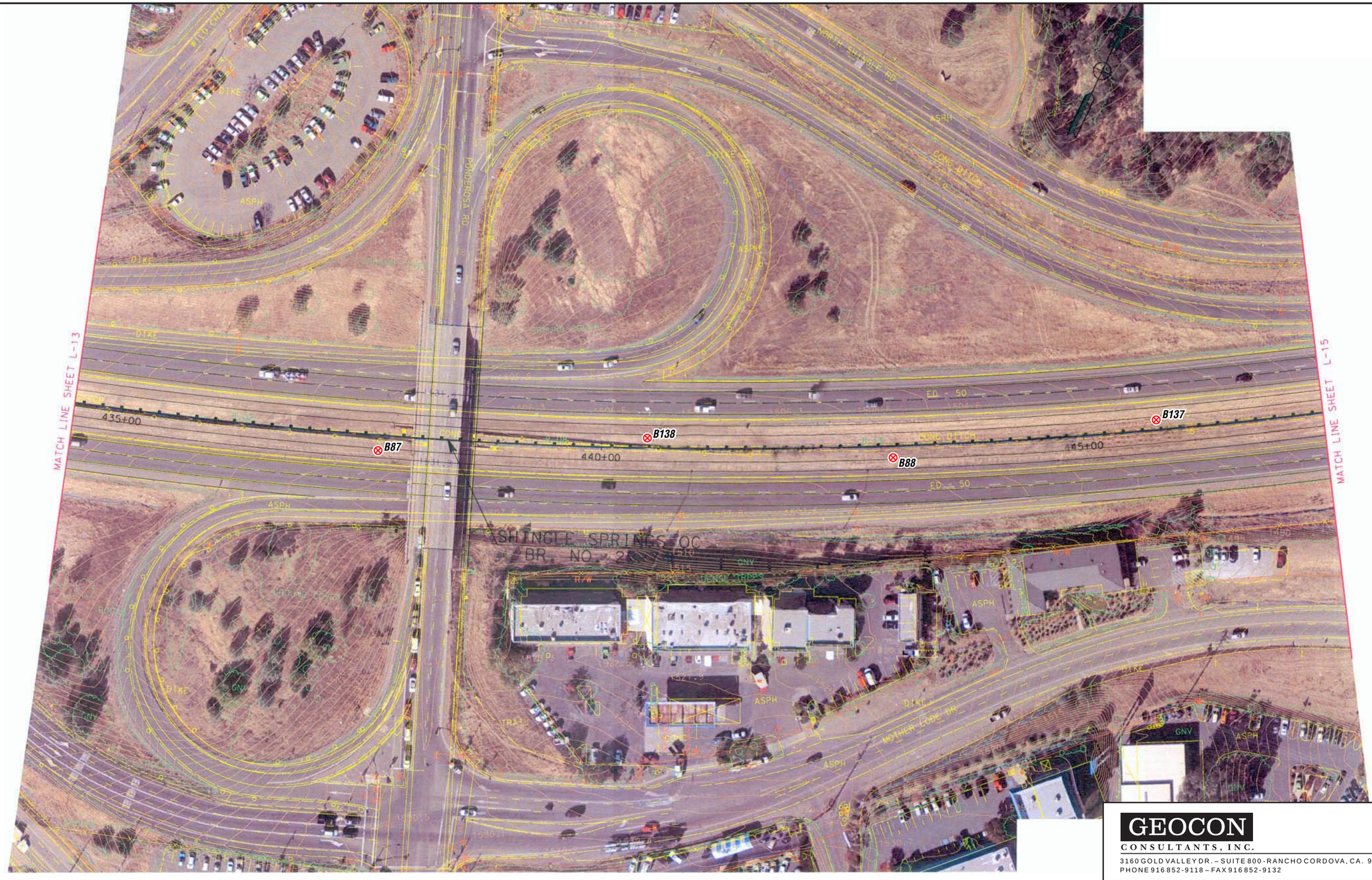
Highway 50 ADL & NOA

El Dorado County, California	**SITE PLAN**	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-13



LEGEND:

B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)

0 100
Scale in Feet

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Highway 50 ADL & NOA

El Dorado County, California	**SITE PLAN**	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-14

LEGEND:

B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)

PC4 ▲ Approximate Paint Chip Sample Location

0 100
Scale in Feet

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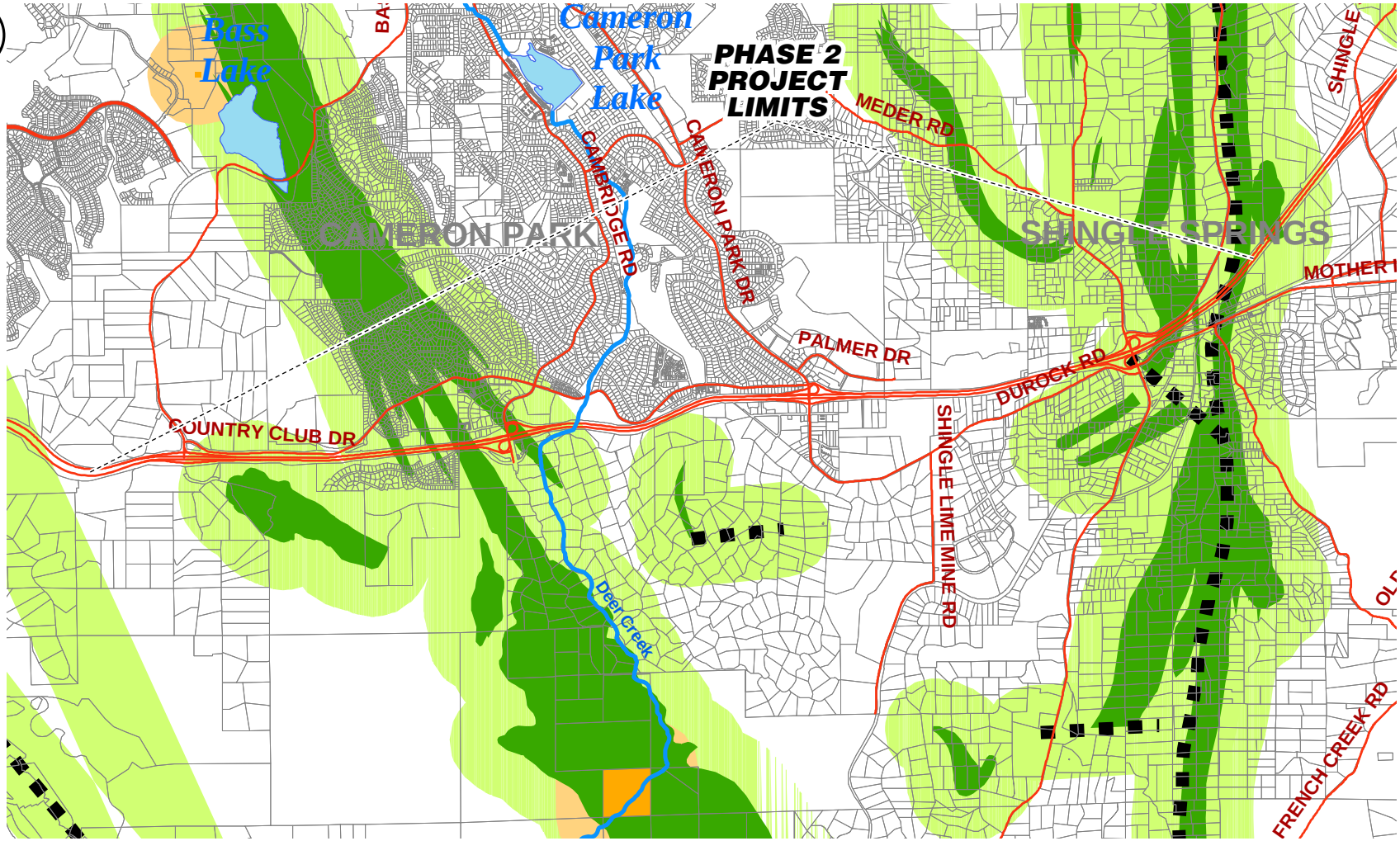
Highway 50 ADL & NOA

El Dorado County, California	**SITE PLAN**	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-15



Source: *Asbestos Review Areas, Western Slope, County of El Dorado, State of California,* El Dorado County, 7/21/05

LEGEND:

- Found Area of NOA
- Quarter Mile Buffer for Found Area of NOA
- More Likely to Contain Asbestos (Dept. of Conservation Mines & Geology OPEN-FILE REPORT 2000-002)
- Quarter Mile Buffer for More Likely to Contain Asbestos or Fault Line
- Fault Line (Dept. of Conservation Mines & Geology OPEN-FILE REPORT 2000-002)
- Parcel Base
- Major Roads
- Rivers and Creeks

0 1

Scale in Miles

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Highway 50 ADL & NOA

El Dorado County, California	**El Dorado County Asbestos Review Areas Map**	
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 3

TABLE 1

SUMMARY OF SOIL BORING AND TRAFFIC STRIPE PAINT SAMPLE COORDINATES

CALTRANS TASK ORDER NO. 22

HIGHWAY 50 POST MILE 2.90 TO 8.79

EL DORADO COUNTY, CALIFORNIA

BORING I.D.	LATITUDE	LONGITUDE
B16	38.654684419	-121.035710537
B17	38.655154807	-121.033730591
B18	38.655396562	-121.030913295
B19	38.655319847	-121.033161835
B20	38.654980185	-121.035500653
B46	38.659884501	-120.970825517
B47	38.659741971	-120.972804838
B48	38.659709586	-120.974937997
B49	38.659681743	-120.977365410
B50	38.655208301	-121.023768818
B51	38.655156376	-121.021394896
B52	38.655141508	-121.019167433
B53	38.655096931	-121.016762289
B54	38.655129222	-121.014558941
B55	38.655314653	-121.012067837
B56	38.655469678	-121.009980380
B57	38.655622396	-121.007583417
B58	38.655806298	-121.005184150
B59	38.655972788	-121.002661629
B60	38.656245622	-121.000480763
B61	38.656557335	-120.998098246
B62	38.656923382	-120.996000425
B63	38.657379476	-120.993253794
B64	38.657409411	-120.990909599
B65	38.657200332	-120.988532628
B66	38.657094048	-120.986173479
B67	38.657612562	-120.983864799
B68	38.658336340	-120.981722792
B69	38.659071797	-120.979560534
B70	38.659340370	-120.977215690
B71	38.659351808	-120.974879804
B72	38.659369104	-120.972551679
B73	38.659382322	-120.970243905
B74	38.659431938	-120.967832424
B75	38.659444934	-120.965562184
B76	38.659471666	-120.963256227
B77	38.659493974	-120.960795245
B78	38.659525514	-120.958401887
B79	38.659549288	-120.956179982
B80	38.659577753	-120.953871145
B81	38.659785991	-120.951595257
B82	38.660183811	-120.949379732
B83	38.660624275	-120.947104806
B84	38.661033832	-120.944789696
B85	38.661473552	-120.942594833
B86	38.661855376	-120.940384406
B87	38.662371210	-120.938098355
B88	38.663057584	-120.936002609

TABLE I
SUMMARY OF SOIL BORING AND TRAFFIC STRIPE PAINT SAMPLE COORDINATES
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

BORING I.D.	LATITUDE	LONGITUDE
B89	38.663991922	-120.934034980
B90	38.664977728	-120.932166248
B91	38.666041126	-120.930235619
B134	38.666335107	-120.929983617
B135	38.665338118	-120.931776189
B136	38.664366473	-120.933589689
B137	38.663490590	-120.935310351
B138	38.662807952	-120.937090946
B139	38.662225727	-120.939136479
B140	38.661847806	-120.941082381
B141	38.661483168	-120.943078929
B142	38.661102497	-120.945148669
B143	38.660715317	-120.947136355
B144	38.660357434	-120.949004859
B145	38.660002566	-120.951004362
B146	38.659732707	-120.953147369
B147	38.659650997	-120.955286836
B148	38.659635707	-120.957569339
B149	38.659604083	-120.959732396
B150	38.659582643	-120.961993352
B151	38.659561409	-120.964231837
B152	38.659541570	-120.966514626
B153	38.659505933	-120.970141310
B154	38.659483256	-120.972533710
B155	38.659457034	-120.975015661
B160	38.659439279	-120.977238594
B161	38.659238630	-120.979321750
B162	38.658562684	-120.981464677
B163	38.657921188	-120.983320013
B164	38.657299080	-120.985404908
B165	38.657188769	-120.987490136
B166	38.657399806	-120.989551131
B167	38.657565927	-120.991866907
B168	38.657310786	-120.994357957
B169	38.656929349	-120.996672832
B170	38.656587280	-120.998850626
B171	38.656242681	-121.001281312
B172	38.655953996	-121.004576915
B173	38.655777451	-121.007138087
B174	38.655575435	-121.009904085
B175	38.655404906	-121.012254846
B176	38.655234971	-121.014613262
B177	38.655165542	-121.017565019
B178	38.655215227	-121.020126066
B179	38.655247788	-121.022661051
B180	NA	NA
B181	NA	NA
B182	38.655369376	-121.030633905
B187	38.659650771	-120.973953821
B188	38.659619997	-120.975238947
B189	38.659604748	-120.976882813
B190	38.659522666	-120.978550922
B191	38.657735739	-120.984333571
B192	38.657580650	-120.985234683

TABLE 1

SUMMARY OF SOIL BORING AND TRAFFIC STRIPE PAINT SAMPLE COORDINATES

CALTRANS TASK ORDER NO. 22

HIGHWAY 50 POST MILE 2.90 TO 8.79

EL DORADO COUNTY, CALIFORNIA

BORING I.D.	LATITUDE	LONGITUDE
B193	38.659327660	-120.979696714
B194	38.658380931	-120.982420562
PC2	38.655096931	-121.016762289
PC3	38.659471666	-120.963256227
PC8	38.665338118	-120.931776189
PC9	38.659483256	-120.972533710
PC10	NA	NA

Notes: NA = GPS data not available

TABLE 2
SUMMARY OF LEAD AND SOIL pH ANALYTICAL RESULTS
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	TOTAL LEAD (mg/kg)	SOLUBLE (WET) LEAD (mg/l)	SOIL pH
B16,17-0	11/26/2007	20	---	---
B16,17-1	11/26/2007	6.2	---	---
B18,19,20-0	11/26/2007	23	---	7.4
B18,19,20-1	11/26/2007	2.3	---	---
B18,20-2	11/26/2007	2.1	---	---
B50,52,54,56-0	11/27/2007	66	2.2	---
B50,52,54,56-1	11/27/2007	3.9	---	---
B50,52-2	11/27/2007	2.0	---	---
B51,53,55,57-0	11/27/2007	33	---	---
B51,53,55,57-1	11/27/2007	2.2	---	---
B51,55,57-2	11/27/2007	2.2	---	---
B58,60,62,64-0	11/27/2007	33	---	---
B58,60,62,64-1	11/27/2007	1.9	---	---
B58,62,64-2	11/27/2007	2.3	---	6.9
B59,61,63,65-0	11/27/2007	70	6.0	---
B59,61,63,65-1	11/27/2007	1.7	---	---
B63-2	11/27/2007	<1	---	---
B66,68,70,72-0	11/27/2007	150	5.0	---
B66,68,70,72-1	11/27/2007	<1	---	---
B66,68,70,72-2	11/27/2007	1.3	---	---
B67,69,71,73-0	11/27/2007	19	---	---
B67,69,71,73-1	11/27/2007	<1	---	---
B67,69,71,73-2	11/27/2007	<1	---	7.0
B74,76,78,80-0	11/27/2007	9.0	---	---
B74,76,78,80-1	11/27/2007	<1	---	---
B74,76,78,80-2	11/27/2007	<1	---	---
B75,77,79,81-0	11/27/2007	31	---	---
B75,77,79,81-1	11/27/2007	<1	---	---
B75,77,79,81-2	11/27/2007	<1	---	---
B82,84,86,88,90-0	11/27/2007	46	---	---
B82,84,86,88,90-1	11/27/2007	3.5	---	7.7
B82,84,86,88-2	11/27/2007	1.7	---	---
B83,85,87,89,91-0	11/27/2007	19	---	---
B83,85,87,89,91-1	11/27/2007	1.2	---	---
B83,85,87,89,91-2	11/27/2007	<1	---	---

TABLE 2
SUMMARY OF LEAD AND SOIL pH ANALYTICAL RESULTS
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	TOTAL LEAD (mg/kg)	SOLUBLE (WET) LEAD (mg/l)	SOIL pH
B134, 136, 138, 140-0	1/15/2008	25	---	---
B134, 136, 138, 140-1	1/15/2008	0.5	---	---
B134, 136, 138, 140-2	1/15/2008	5.0	---	---
B135, 137, 139, 141-0	1/15/2008	46	---	7.6
B135, 137, 139, 141-1	1/15/2008	1.4	---	---
B137, 139, 141-2	1/15/2008	2.1	---	---
B142, 144, 146, 148-0	1/15/2008	3.1	---	---
B142, 144, 146, 148-1	1/15/2008	2.3	---	---
B142, 144, 146, 148-2	1/15/2008	0.8	---	---
B143, 145, 147, 149-0	1/15/2008	33	---	---
B143, 145, 147, 149-1	1/15/2008	1.8	---	---
B143, 145, 147, 149-2	1/15/2008	0.5	---	7.5
B150, 152, 154, 160-0	1/16/2008	8.2	---	---
B150, 152, 154, 160-1	1/16/2008	2.5	---	---
B150, 154-2	1/16/2008	1.1	---	---
B151, 153, 155, 161-0	1/16/2008	79	5.5	---
B151, 153, 155, 161-1	1/16/2008	2.2	---	---
B151, 153, 155, 161-2	1/16/2008	56	2.1	---
B162, 164, 166, 168-0	1/16/2008	46	---	---
B162, 164, 166, 168-1	1/16/2008	20	---	---
B162, 164, 166, 168-2	1/16/2008	<0.4	---	---
B163, 165, 167, 169-0	1/16/2008	79	2.4	---
B163, 165, 167, 169-1	1/16/2008	8.9	---	---
B163, 165, 167, 169-2	1/16/2008	1.4	---	---
B170, 172, 174, 176-0	1/16/2008	23	---	---
B170, 172, 174, 176-1	1/16/2008	2.7	---	7.4
B170, 172, 176-2	1/16/2008	4.5	---	---
B171, 173, 175, 177-0	1/16/2008	17	---	7.7
B171, 173, 175, 177-1	1/16/2008	1.6	---	---
B171, 173, 177-2	1/16/2008	1.9	---	---
B178, 180, 182-0	1/16/2008	42	---	---
B178, 180, 182-1	1/16/2008	3.2	---	---
B178, 180, 182-2	1/16/2008	1.9	---	---
B179, 181-0	1/16/2008	18	---	---
B179, 181-1	1/16/2008	1.2	---	---
B179, 181-2	1/16/2008	1.3	---	---

Notes:
B1,3,5,7-0 - Composite sample identification consisting of discrete soil samples collected from borings B1, B3, B5, and B7 at 0.0 ft depth
WET = Waste Extraction Test
mg/kg = Milligrams per kilogram
mg/l = Milograms per liter
< = Less than the laboratory test method detection limit
--- = Not analyzed

TABLE 3
SUMMARY OF TITLE 22 METALS ANALYTICAL RESULTS
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

Sample ID	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
		Results Reported as mg/kg																
B46,47,48,49-0	11/27/2007	<0.4	0.8	42	<0.4	<0.4	22	20	44	28	<0.4	16	<0.5	<0.4	<0.4	110	36	<0.04
B46,47,48,49-1	11/27/2007	<0.4	0.6	60	<0.4	<0.4	20	27	76	2.3	<0.4	15	<0.5	<0.4	<0.4	120	24	<0.04
B46,47,48,49-2	11/27/2007	<0.4	<0.4	39	<0.4	<0.4	17	18	84	0.9	<0.4	20	<0.5	<0.4	<0.4	92	17	<0.04
B187, 188, 189, 190-0	1/16/2008	<0.4	1.4	53	<0.4	<0.4	37	14	56	95	<0.4	30	<0.5	<0.4	<0.4	110	61	<0.04
B187, 188, 189, 190-1	1/16/2008	<0.4	<0.4	69	<0.4	<0.4	8.7	16	80	1.0	<0.4	11	<0.5	<0.4	<0.4	150	16	<0.04
B187, 188, 189, 190-2	1/16/2008	<0.4	<0.4	89	<0.4	<0.4	7.9	18	98	6.6	<0.4	13	<0.5	<0.4	<0.4	180	20	<0.04
B191, 192, 193, 194-0	1/16/2008	<0.4	1.3	54	<0.4	0.4	35	14	62	58	<0.4	36	<0.5	<0.4	<0.4	100	50	<0.04
B191, 192, 193, 194-1	1/16/2008	<0.4	0.6	37	<0.4	<0.4	32	18	92	1.3	<0.4	28	<0.5	<0.4	<0.4	140	35	<0.04
B191, 192, 193, 194-2	1/16/2008	<0.4	1.0	40	<0.4	<0.4	37	16	110	1.9	0.5	24	<0.5	<0.4	<0.4	150	30	<0.04
Published Background Levels[1] (mg/kg)		0.6	3.5	509	1.28	0.36	122	14.9	28.7	23.9	1.3	57	0.058	0.8	15.7	112	149	0.26
TTLC (mg/kg)		500	500	10,000	75	100	2,500	8,000	2,500	1,000	3,500	2,000	100	500	700	2,400	5,000	20

Notes:

B46,47,48,49-0 - Composite sample identification consisting of discrete soil samples collected from borings B46, B47, B48, and B49 at 0.0 ft depth

mg/kg = Milligrams per kilogram

< = Less than the laboratory test method reporting limits

TTLC = Total Threshold Limit Concentrations

[1] Background: Mean Concentration - Background Concentrations of Trace and Major Elements in California Soils, U.C. California, March 1996

TABLE 4
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE LOCATION	SAMPLE TYPE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
NOA 1	NOA16-0, NOA17-0, NOA18-0, NOA19-0, NOA20-0, NOA181-0, NOA182-0	COMPOSITE	PLM	ND	ND
NOA 2	NOA18-2, NOA20-2, NOA181-2, NOA182-2	COMPOSITE	PLM	ND	ND
NOA 3	NOA50-0, NOA51-0, NOA52-0, NOA177-0, NOA178-0, NOA179-0, NOA180-0	COMPOSITE	PLM	ND	ND
NOA 4	NOA50-2, NOA51-2, NOA52-2, NOA177-2, NOA178-2, NOA179-2, NOA180-2	COMPOSITE	PLM	ND	ND
NOA 5	NOA53-0, NOA54-0, NOA55-0, NOA56-0, NOA174-0, NOA175-0, NOA176-0	COMPOSITE	PLM	ND	ND
NOA 6	NOA55-2, NOA176-2	COMPOSITE	PLM	ND	ND
NOA 7	NOA57-0, NOA58-0, NOA59-0, NOA60-0, NOA61-0, NOA170-0, NOA171-0, NOA172-0	ROCK CHIP	PLM	ND	ND
NOA8	NOA57-2, NOA58-2, NOA170-2, NOA171-2, NOA172-2, NOA173-2	COMPOSITE	PLM	ND	ND

TABLE 4
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE LOCATION	SAMPLE TYPE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
NOA9	NOA62-0, NOA63-0, NOA64-0, NOA167-0, NOA168-0, NOA169-0	COMPOSITE	PLM	ND	ND
NOA10	NOA62-2, NOA63-2, NOA64-2, NOA167-2, NOA168-2, NOA169-2	COMPOSITE	PLM	ND	ND
NOA11	NOA65-0, NOA66-0, NOA67-0, NOA68-0, NOA162-0, NOA163-0, NOA164-0, NOA165-0, NOA166-0	COMPOSITE	PLM	ND	ND
NOA12	NOA66-2, NOA67-2, NOA68-2, NOA162-2, NOA163-2, NOA164-2, NOA165-2, NOA166-2	COMPOSITE	PLM	ND	ND
NOA13	NOA69-0, NOA70-0, NOA71-0, NOA72-0, NOA154-0, NOA155-0, NOA160-0, NOA161-0	COMPOSITE	PLM	ND	ND
NOA14	NOA69-2, NOA70-2, NOA71-2, NOA72-2, NOA154-2, NOA155-2, NOA161-2	COMPOSITE	PLM	ND	ND
NOA15	NOA73-0, NOA74-0, NOA75-0, NOA76-0, NOA151-0, NOA152-0, NOA153-0	COMPOSITE	PLM	ND	ND
NOA16	NOA73-2, NOA74-2, NOA75-2, NOA76-2, NOA151-2, NOA153-2	COMPOSITE	PLM	ND	ND

TABLE 4
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE LOCATION	SAMPLE TYPE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
NOA17	NOA77-0, NOA78-0, NOA79-0, NOA80-0, NOA147-0, NOA148-0, NOA149-0, NOA150-0	COMPOSITE	PLM	ND	ND
NOA18	NOA77-2, NOA78-2, NOA79-2, NOA80-2, NOA147-2, NOA148-2, NOA149-2, NOA150-2	COMPOSITE	PLM	ND	ND
NOA19	NOA81-0, NOA82-0, NOA83-0, NOA84-0, NOA142-0, NOA143-0, NOA144-0, NOA146-0	COMPOSITE	PLM	ND	ND
NOA20	NOA81-2, NOA82-2, NOA83-2, NOA84-2, NOA142-2, NOA143-2, NOA144-2, NOA146-2	COMPOSITE	PLM	ND	ND
NOA21	NOA85-0, NOA86-0, NOA87-0, NOA88-0, NOA138-0, NOA139-0, NOA140-0, NOA141-0	COMPOSITE	PLM	ND	ND
NOA22	NOA85-2, NOA86-2, NOA87-2, NOA88-2, NOA138-0, NOA139-2, NOA140-2, NOA141-2	COMPOSITE	PLM	ND	ND
NOA23	NOA89-0, NOA90-0, NOA91-0, NOA134-0, NOA135-0, NOA136-0, NOA137-0	COMPOSITE	PLM	ND	ND
NOA24	NOA89-2, NOA91-2, NOA134-2, NOA136-2, NOA137-2	COMPOSITE	PLM	<0.25%	CHRYSOTILE

TABLE 4
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE LOCATION	SAMPLE TYPE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
NOA25	NOA46-0, NOA47-0, NOA48-0, NOA49-0	COMPOSITE	PLM	ND	ND
NOA26	NOA46-2, NOA47-2, NOA48-2, NOA49-2	COMPOSITE	PLM	ND	ND
NOA27	NOA187-0, NOA188-0, NOA189-0, NOA190-0	COMPOSITE	PLM	ND	ND
NOA28	NOA187-2, NOA188-2, NOA189-2, NOA190-2	COMPOSITE	PLM	ND	ND
NOA29	NOA191-0, NOA192-0, NOA193-0,NOA194-0	COMPOSITE	PLM	ND	ND
NOA30	NOA191-2, NOA192-2, NOA193-2,NOA194-2	COMPOSITE	PLM	ND	ND
NOA 183	West of Bass Lake Road	ROCK CHIP	PLM	ND	ND

Notes:

PLM = Polarized Light Microscopy

ND = None Detected

<0.25 = Less than the laboratory method reporting limit

TABLE 5

SUMMARY OF TRAFFIC STRIPE PAINT SAMPLE ANALYTICAL RESULTS - LEAD AND CHROMIUM

CALTRANS TASK ORDER NO. 22

HIGHWAY 50 POST MILE 2.90 TO 8.79

EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	TOTAL LEAD (mg/kg)	CHROMIUM (mg/kg)
PC2	11/27/2007	290	100
PC3	11/27/2007	210	90
PC8	1/15/2008	1,000	240
PC9	1/15/2008	1,000	230
PC10	1/16/2008	510	120

Notes: PC 2 = Yellow traffic stripe paint sample identification
mg/kg = Milligrams per kilogram

APPENDIX A

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S8225-06-76
February 3, 2000

Ms. Alicia Beyer
California Department of Transportation
District 3
North Region Hazardous Waste Office
Post Office Box 911
Marysville, California 95901

Subject: HIGHWAY 50 BRIDGE SITES
LATROBE ROAD UC PM 0.9
CLARKSVILLE ROAD UC PM 1.7
BASS LAKE ROAD UC PM 3.23
CAMERON PARK UC PM 6.57
EL DORADO COUNTY, CALIFORNIA
CONTRACT NO. 43A0012
TASK ORDER NO. 03-3A7100-CR
ASBESTOS AND LEAD-BASED PAINT SURVEY REPORT

Dear Ms. Beyer:

In accordance with California Department of Transportation (Caltrans) Contract No. 43A0012 and Task Order (TO) No. 03-3A7100-CR, Geocon Environmental Consultants, Inc. is pleased to submit this Asbestos and Lead-Based Paint Survey Report for the subject bridge sites. This report summarizes the services performed by Geocon's subcontracted asbestos consultant, HB&T Environmental Inc., including a survey for asbestos containing materials (ACMs) and lead-based paint.

PROJECT LOCATIONS AND PROPOSED IMPROVEMENTS

The project includes four bridges along Highway 50 in El Dorado County, California. The bridges include both eastbound and westbound undercrossing (UC) structures at Latrobe Road (Br. 25.71 R/L), Clarksville Road (Br. 25.72 R/L), Bass Lake Road (Br. 25-73 R/L), and Cameron Park (Br. 25-84 R/L). The approximate bridge locations are depicted on the attached Project Location Map, Figure 1.

Proposed construction will consist of widening the subject bridges approximately 4.9 meters to the inside in both westbound and eastbound directions. Construction will include removing and replacing joint seals, assemblies, guardrail bridge railings as required. The proposed work will be within the existing pavement limits and will be done from the top of the bridge. The approximate bridge structure boundaries are depicted on the attached Site Plans, Figures 2 through 5.

PURPOSE AND PROJECT SCOPE

The purpose of the scope of work included in the TO Workplan prepared by Geocon dated November 15, 1999 was to survey the bridge structures to determine the potential presence and quantity of ACMs and lead-based paint within the proposed construction areas. Outlined below is a summary of the scope of services performed pursuant to the subject TO No. 03-3A7100-CR.

Pre-Field Activities

- Conducted a TO meeting via telephone on November 2, 1999 with Ms. Alicia Beyer with Caltrans, Mr. John Juhrend with Geocon, and Mr. Tim Hoppe with HB&T to review the proposed scope of work. The project Completion Schedule and Notice To Proceed were subsequently signed by the Caltrans and Geocon project managers.

- Prepared an *Asbestos Survey Workplan* dated November 15, 1999, describing the requested scope of services, quality assurance/quality control (QA/QC), and sampling and laboratory procedures.

- Prepared a *Health and Safety Plan* dated November 12, 1999 to provide guidelines on the use of personal protective equipment and the health and safety procedures to be implemented during the survey activities.

- Retained the services of HB&T, a California licensed and Caltrans approved subcontractor to perform the asbestos surveys and analytical testing services. Mr. Tim Hoppe, a current Asbestos Hazard Emergency Response Act Certified Asbestos Consultant and California Department of Health Services certified lead-based paint sampler, performed the bridge surveys.

Field Activities

Forty-one (at least 10 from each bridge) material samples were obtained from the bridge structures on December 3, 6 and 7, 1999. The samples were obtained from the joint seals, joint filler material and guardrail bearing-pad shims using a core drill. Painted bridge components were not observed during the bridge surveys and therefore paint chip samples were not obtained. QA/QC procedures were provided during the asbestos survey activities including providing chain-of-custody documentation for each sample transferred to the laboratory. The approximate sample locations are depicted on the attached Site Plans, Figures 2 through 5.

Laboratory Analyses and Results

The bridge material samples were analyzed for asbestos type and content per Environmental Protection Agency Test Method 600/m4-82-020, polarized light microscopy. Caltrans requested standard ten-day turn-around-time laboratory analyses for bridge material samples collected pursuant to the subject TO No. 03-3A7100-CR.

Asbestos was detected in 18 guardrail bearing-pad shim samples (six per bridge) obtained from the Latrobe Road UC, Clarksville Road UC and Bass Lake Road UC at a concentration of 70% per sample. Asbestos was detected in five guardrail bearing-pad shim samples, and two sheet packing samples obtained from the Cameron Park UC at a concentration of 70% per sample. Asbestos was not detected in the remaining samples from these bridges. Copies of the laboratory reports and chain-of custody documentation are attached.

CONCLUSIONS AND RECOMMENDATIONS

The existing guardrail bearing-pad shims at the Latrobe Road UC, Clarksville Road UC, Bass Lake Road UC and Cameron Park UC, will require removal and disposal by a licensed and certified asbestos abatement contractor in conjunction with the planned bridge renovation work. In addition, sheet packing observed at the Cameron Park UC will also require abatement. For preliminary planning purposes only, the asbestos content, ACM present condition, estimated quantity and approximate abatement costs for each bridge are shown below.

TABLE 1
SUMMARY OF ACM DATA

Location and Type	Sample Numbers	Asbestos Content	Present Condition	Estimated Quantity (Square Meters, Square Feet)	Estimated Abatement Cost
Latrobe Road UC Guardrail Shim	1-A, 1-B, 3-B, 4-B, 5-B, 6-B	70% Chrysotile	Fair, Non-Friable, Category II	0.37 (3.9)	$1,200
Clarksville Road UC Guardrail Shim	1-B, 2-B, 3-B, 4-B, 5-B, 6-B	70% Chrysotile	Fair, Non-Friable, Category II	0.52 (5.6)	$1,200
Bass Lake Road UC Guardrail Shim	5-B, 6-B, 7-B, 8-B, 9-B, 10-B	70% Chrysotile	Fair, Non-Friable, Category II	0.68 (7.3)	$1,200
Cameron Park UC Sheet Packing	2-B, 5-B	70% Chrysotile	Fair, Non-Friable, Category II	3.0 (32)	$1,500
Cameron Park UC Guardrail Shim	4-B, 8-B, 9-B, 10-B, 11-B	70% Chrysotile	Fair, Non-Friable, Category II	0.7 (7.5)	$1,200

The cost estimates shown above are based on one mobilization to each bridge site, the prior removal of guardrail by others, and include permit fees.

LIMITATIONS

The bridge surveys were conducted in conformance with generally accepted standards of practice for identifying and evaluating ACM in structures. However, ACM may exist in areas of the structure not sampled in conjunction with this TO.

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.

If there are any questions concerning the contents of this Report, or if Geocon may be of further service, please contact the undersigned at your convenience.

Sincerely,

GEOCON ENVIRONMENTAL CONSULTANTS, INC.

Timothy C. Hoppe
CAC No. 92-0106
DHS Lead Cert. No. 3968

William M. Kenney, PE
Project Engineer

REGISTERED PROFESSIONAL ENGINEER
William Malcolm Kenney
No. C56345
Exp. 03/31/01
CIVIL
STATE OF CALIFORNIA

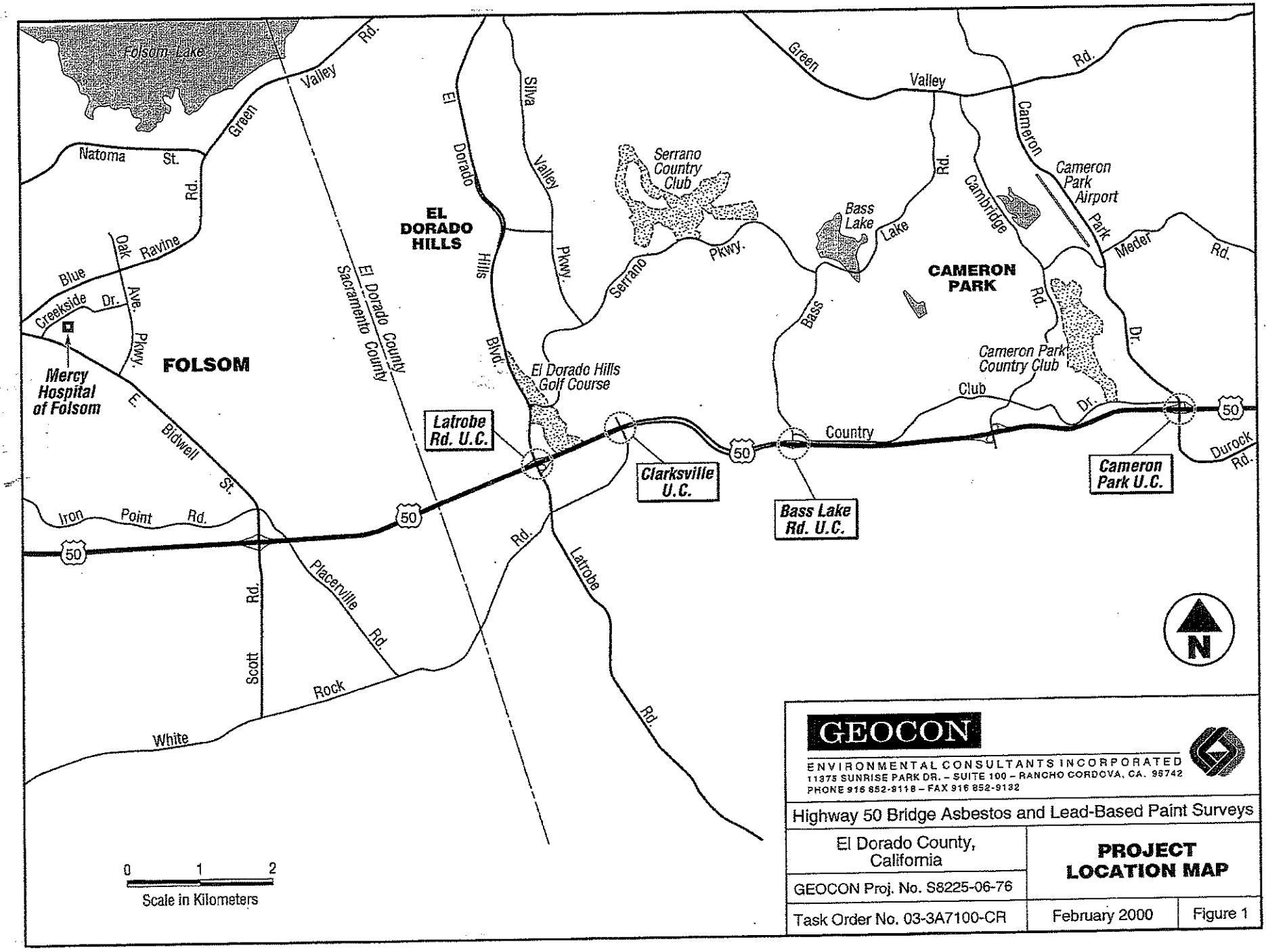
Reviewed by:

John E. Juhrend, PE, CEG
Project Manager

JEJ:sd

(5) Addressee
(1) HB&T, Mr. Tim Hoppe

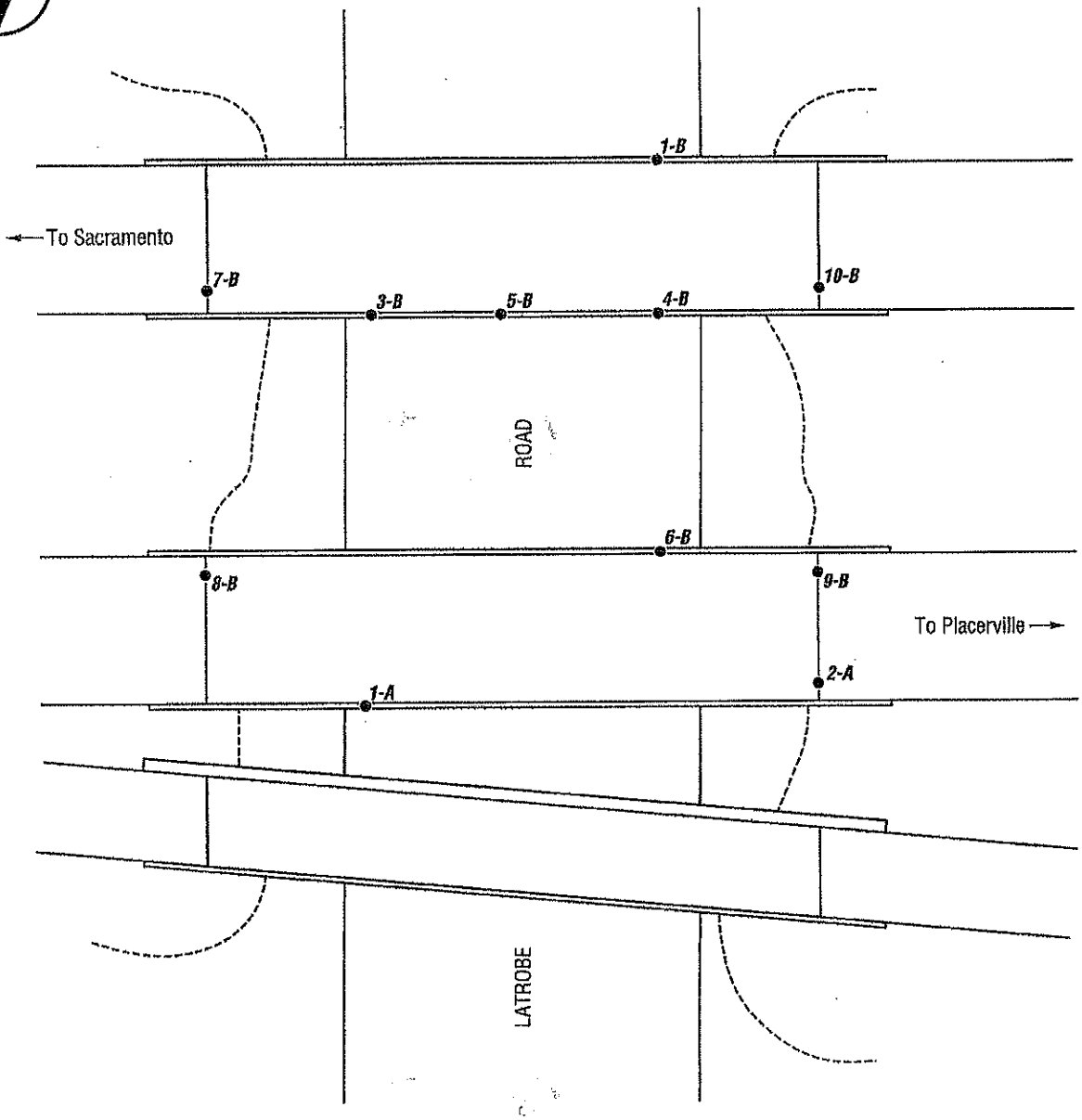
Attachments: Figure 1, Project Location Map
Figure 2, Latrobe Road UC Site Plan
Figure 3, Clarksville Road UC Site Plan
Figure 4, Bass Lake Road UC Site Plan
Figure 5, Cameron Park UC Site Plan
Table 1, Summary of Asbestos Analytical Data
Laboratory Test Results and Chain of Custody



GEOCON
ENVIRONMENTAL CONSULTANTS INCORPORATED
11375 SUNRISE PARK DR. – SUITE 100 – RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 – FAX 916 852-9132

Highway 50 Bridge Asbestos and Lead-Based Paint Surveys

El Dorado County, California	**PROJECT LOCATION MAP**
GEOCON Proj. No. S8225-06-76	
Task Order No. 03-3A7100-CR	February 2000 — Figure 1



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Scale: 1:500

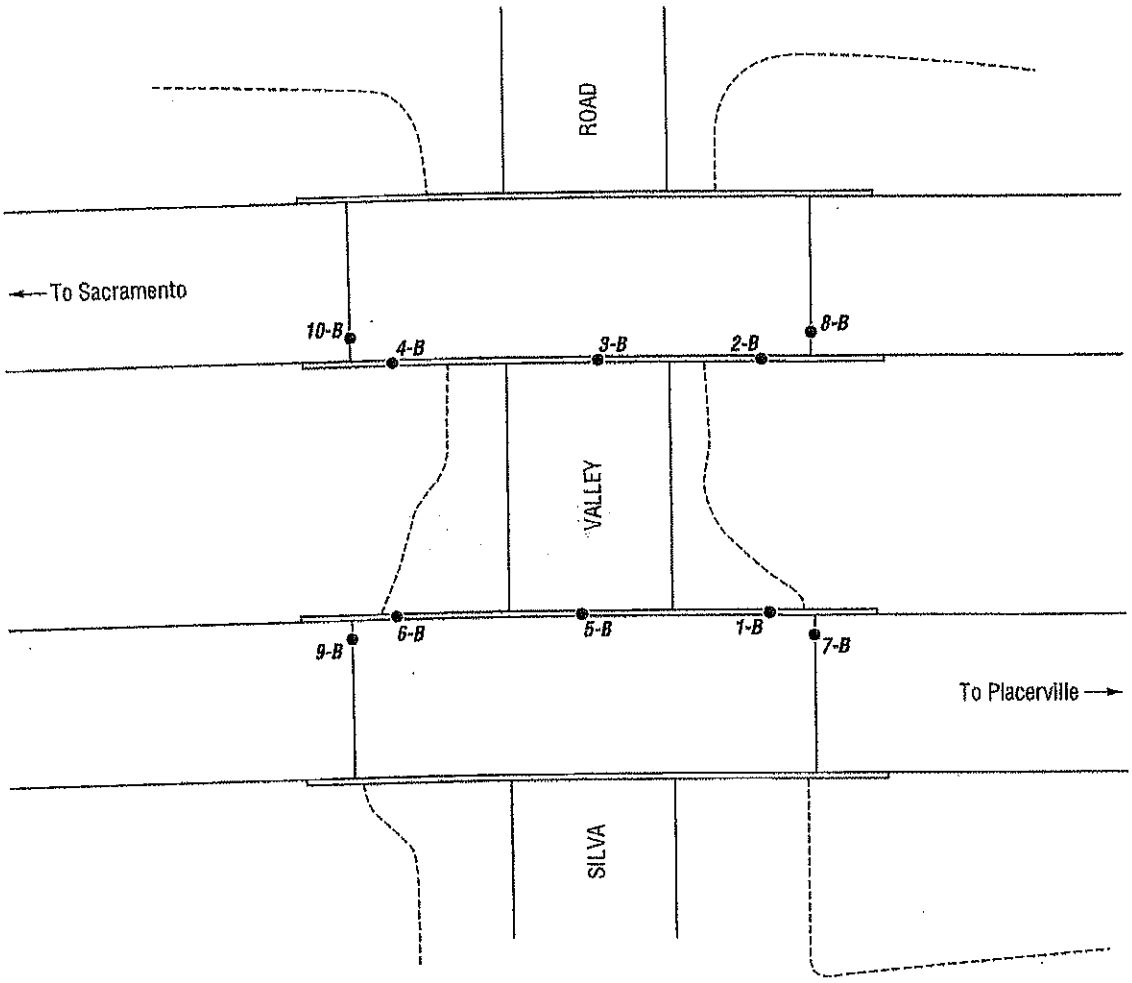
LEGEND:

1-B● Approximate Sample Location

GEOCON

ENVIRONMENTAL CONSULTANTS INCORPORATED
11375 SUNRISE PARK DR. – SUITE 100 – RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 – FAX 916 852-9132

Highway 50 Bridge Asbestos and Lead-Based Paint Surveys		
El Dorado County, California	**Latrobe Road Undercrossing**	
GEOCON Proj. No. S8225-06-76	**SITE PLAN**	
Task Order No. 03-3A7100-CR	February 2000	Figure 2



0 5 10m

Scale: 1:500

LEGEND:

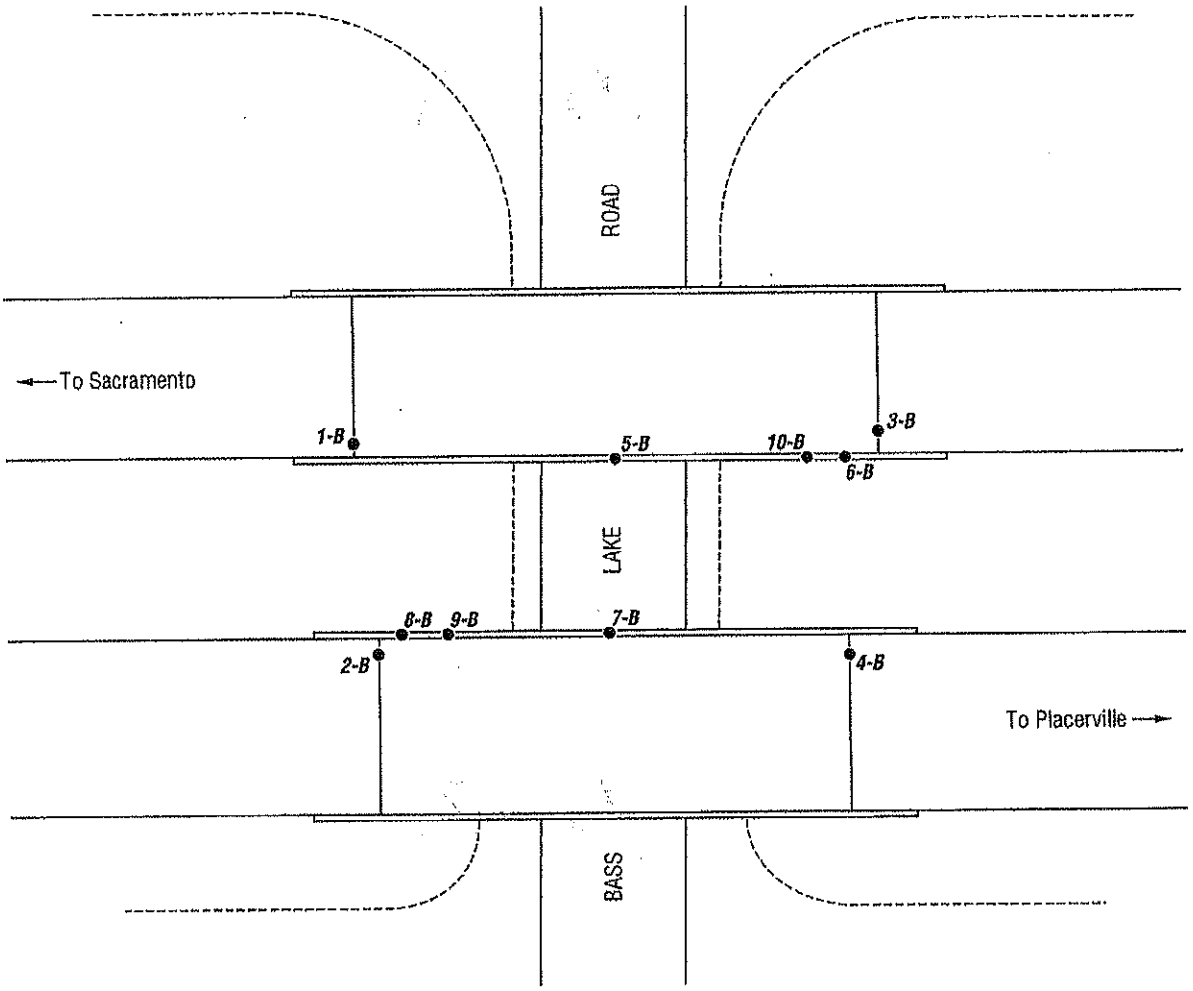
1-B● Approximate Sample Location

GEOCON

ENVIRONMENTAL CONSULTANTS INCORPORATED
11375 SUNRISE PARK DR. - SUITE 100 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 - FAX 916 852-9132

Highway 50 Bridge Asbestos and Lead-Based Paint Surveys

El Dorado County, California	**Clarksville Undercrossing**	
GEOCON Proj. No. S8225-06-76	**SITE PLAN**	
Task Order No. 03-3A7100-CR	February 2000	Figure 3



0 5 10m

Scale: 1:500

LEGEND:

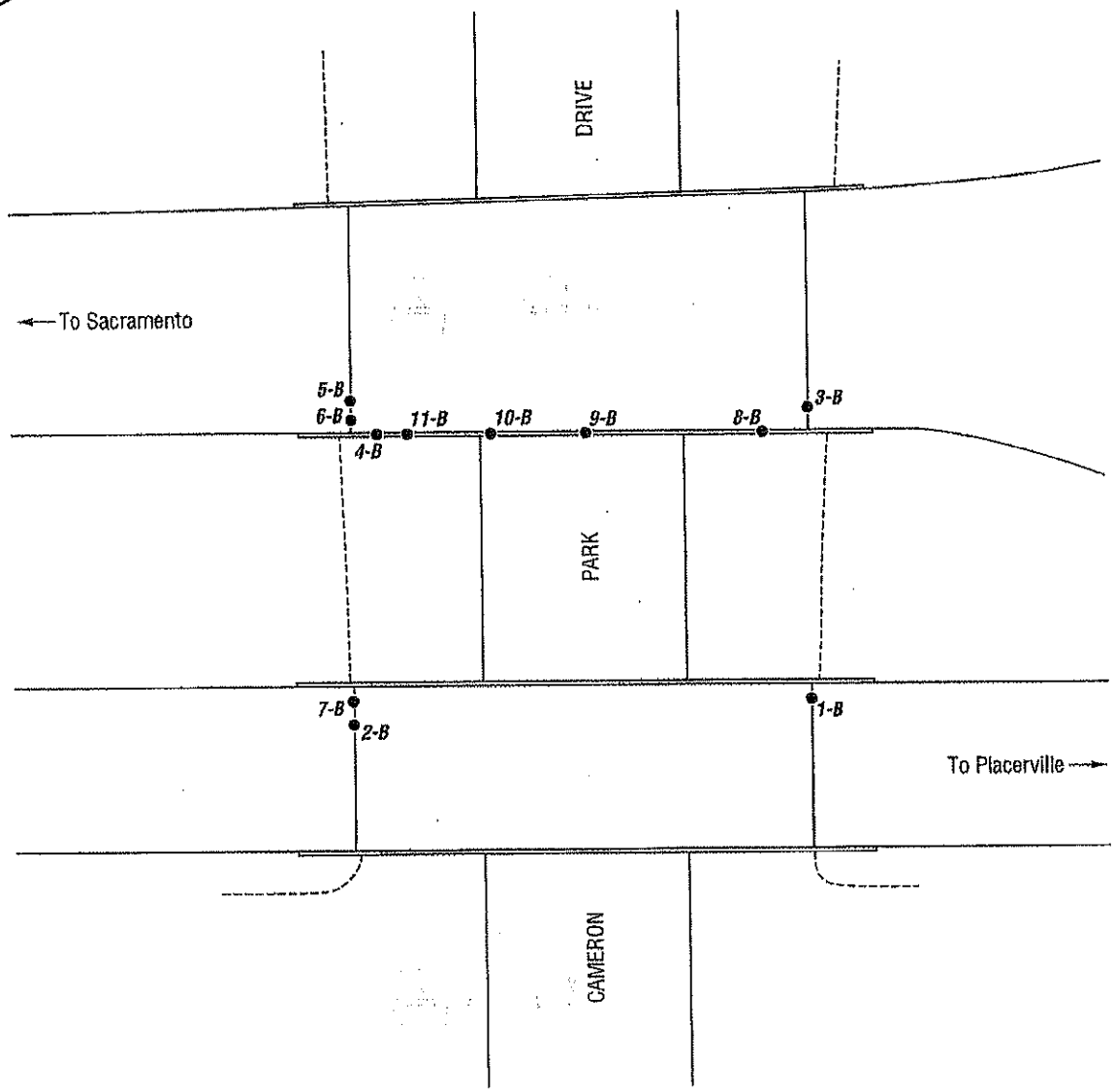
5-B● Approximate Sample Location

GEOCON

ENVIRONMENTAL CONSULTANTS INCORPORATED
11375 SUNRISE PARK DR. – SUITE 100 – RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 – FAX 916 852-9132

Highway 50 Bridge Asbestos and Lead-Based Paint Surveys

El Dorado County, California	**Bass Lake Road Undercrossing**	
GEOCON Proj. No. S8225-06-76	**SITE PLAN**	
Task Order No. 03-3A7100-CR	February 2000	Figure 4



0 5 10m

Scale: 1:500

LEGEND:

2-B ● Approximate Sample Location

GEOCON

ENVIRONMENTAL CONSULTANTS INCORPORATED
11375 SUNRISE PARK DR. - SUITE 100 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 - FAX 916 852-9132

Highway 50 Bridge Asbestos and Lead-Based Paint Surveys

El Dorado County, California	**Cameron Park Undercrossing**	
GEOCON Proj. No. S8225-06-76	**SITE PLAN**	
Task Order No. 03-3A7100-CR	February 2000	Figure 5

TABLE 1
SUMMARY OF ASBESTOS ANALYTICAL DATA
HIGHWAY 50 BRIDGE SITES
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	STRUCTURE	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS (%)
1-A	LATROBE RD. UC	S.W. GUARDRAIL, SOUTH BRIDGE	GUARDRAIL SHIM, GRAY	70
1-B	LATROBE RD. UC	N.E. GUARDRAIL, NORTH BRIDGE	GUARDRAIL SHIM, GRAY	70
2-A	LATROBE RD. UC	SOUTH BRIDGE BETWEEN SLABS	BROWN/BLACK JOINT FILLER	ND
3-B	LATROBE RD. UC	WEST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
4-B	LATROBE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
5-B	LATROBE RD. UC	MIDDLE, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
6-B	LATROBE RD. UC	EAST END, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
7-B	LATROBE RD. UC	WEST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
8-B	LATROBE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
9-B	LATROBE RD. UC	EAST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
10-B	LATROBE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
1-B	CLARKSVILLE RD. UC	EAST END, EASTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
2-B	CLARKSVILLE RD. UC	EAST END, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
3-B	CLARKSVILLE RD. UC	MIDDLE, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
4-B	CLARKSVILLE RD. UC	WEST END, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
5-B	CLARKSVILLE RD. UC	MIDDLE, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
6-B	CLARKSVILLE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
7-B	CLARKSVILLE RD. UC	EAST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
8-B	CLARKSVILLE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
9-B	CLARKSVILLE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
10-B	CLARKSVILLE RD. UC	WEST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
1-B	BASS LAKE RD. UC	WEST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
2-B	BASS LAKE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
3-B	BASS LAKE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
4-B	BASS LAKE RD. UC	EAST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
5-B	BASS LAKE RD. UC	MIDDLE, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
6-B	BASS LAKE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70

TABLE 1
SUMMARY OF ASBESTOS ANALYTICAL DATA
HIGHWAY 50 BRIDGE SITES
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	STRUCTURE	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS (%)
7-B	BASS LAKE RD. UC	MIDDLE, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
8-B	BASS LAKE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
9-B	BASS LAKE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
10-B	BASS LAKE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
1-B	CAMERON PARK UC	EAST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
2-B	CAMERON PARK UC	UNDER BRIDGE @ ABUTMENT, WEST END, E.B.	GRAY SHEET PACKING	70
3-B	CAMERON PARK UC	EAST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
4-B	CAMERON PARK UC	WEST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY "UPPER"	70
5-B	CAMERON PARK UC	UNDER BRIDGE @ ABUTMENT, WEST END, W.B.	GRAY SHEET PACKING	70
6-B	CAMERON PARK UC	WEST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
7-B	CAMERON PARK UC	WEST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
8-B	CAMERON PARK UC	EAST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
9-B	CAMERON PARK UC	MIDDLE, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
10-B	CAMERON PARK UC	MIDDLE WEST, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
11-B	CAMERON PARK UC	WEST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70

Notes: ND = Not detected

QUANTEM® LABORATORIES
2033 Heritage Park Drive
Oklahoma City, OK 73120
Ph. (405) 755-7272
Fax (405) 755-2058

Polarized Light Microscopy
Asbestos Analysis Report

QuanTEM Set ID: 9912P103074
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Joe Melton
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Cameron Park U.C.
Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
1	1-B	homogeneous	brown joint filler,E-end,E-bd. inside	asbestos not present	cellulose 10%	
2	2-B	homogeneous	gray sheet packing,under,EB W-end	asbestos present chrysotile 70%	N/A	
3	3-B	homogeneous	brown joint filler,E-end,W-bd. inside	asbestos not present	N/A	
4	4-B	homogeneous	gray rail lm"upper"W-end,E-inside	asbestos present chrysotile 70%	N/A	
5	5-B	homogeneous	gray sheet packing,under,WB W-end	asbestos present chrysotile 70%	N/A	
6	6-B	homogeneous	brown joint filler,W-end,W-bd. inside	asbestos not present	cellulose 10%	
7	7-B	homogeneous	brown joint filler,W-end,E-bd. inside	asbestos not present	cellulose 10%	
8	8-B	homogeneous	gray guard rail shim,E-end,W-bd. inside	asbestos present chrysotile 70%	N/A	

J. Melton
Reviewed and Approved

December 8, 1999
Date

Note: Structures denoted as being "<5μ" refer to the structures whose length is from 0.5μm to 4.9μm.
QuanTEM is a NVLAP-accredited TEM and PLM laboratory (Lab Code 101959). This report relates only to the specific items tested.
NVLAP accreditation applies only to AHERA analysis [40 CFR Ch. I (1-1-87 ed.) Part 763, Appendix A to Subparts E and F].
This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

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Oklahoma City, OK 73120
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Polarized Light Microscopy
Asbestos Analysis Report

QuanTEM Set ID: 9912P103074
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Joe Melton
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Cameron Park U.C.
Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
9	9-B	homogeneous	gray guard rail shim,middle,W-bd. inside	asbestos present chrysotile 70%	N/A	
10	10-B	homogeneous	gray guard rail shim,middle W,W-bd. inside	asbestos present chrysotile 70%	N/A	
11	11-B	homogeneous	gray guard rail shim,W-endW-bd. inside	asbestos present chrysotile 70%	N/A	

J. Melton
Reviewed and Approved

December 8, 1999
Date

Note: Structures denoted as being "<5μ" refer to the structures whose length is from 0.5μm to 4.9μm.
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9912P1030+4

Asbestos Chain-of-Custody Form

QUANTEM LABORATORIES
2033 Heritage Park Drive, Oklahoma City, OK 73120
(800) 822-1660 (405) 755-7272 Fax (405) 755-2058

Company Name: HB&T Environmental, Inc.
Project: El Dorado County
Project Location: Cameron Park U.C.
Project Number: 3215.99

☑ Analytical Service Requested

Sample ID Number	☑ To Be Analyzed	Color / Description	Volume / Area (if applicable)	Comments
1-B		Brown Joint filler	Eastend	Eastbound Side Inside
2-B		Gray Sheet Packing	Under bridge	at abutement E.B. Westend
3-B		Brown Joint filler	Eastend	Westbound Side Inside
4-B		Gray Guardrail Shim "Upper"	Westend	Westbound Side Inside
5-B		Gray Sheet Packing	Under bridge at abutment	W.B. Westend
6-B		Brown Joint filler	Westend	Westbound Side Inside
7-B		Brown Joint filler	Westend	Eastbound Side Inside
8-B		Gray guardrail Shim	Eastend	Westbound inside
9-B		" "	Middle	Westbound inside
10-B		" "	Middle West	Westbound inside
11-B		" "	Westend	Westbound inside
			[redacted]	

TEM

	Air - AHERA clearance*
	Air - TEM
	Air - NIOSH 7402
	Bulk - Qualitative [Yes / No] (EPA 600/R-93/116)
	Bulk - Quantitative [weight %] (Chatfield)
	Dust - Qualitative [Yes / No]
	Dust - Quantitative [fibers / sq. cm] (ASTM D6755)
	Drinking Water (EPA 100.2)
	Waste Water (EPA 600/4-83-043)
	Other

* AHERA clearance samples must consist of 5 inside, 5 outside, and 3 blank samples collected on 0.45 micron 25mm MCE filters with a minimum volume of 560 L.

PLM

X	Bulk Analysis (EPA 600/R-93/116)
	Quantitative Point Counting
	Other

PCM

	NIOSH 7400
	Other

Relinquished By	Time/Date	Via	Received By	Time/Date
[signature]	12-7-99	FedEx	Brandy Pitts	0935 12.8.99
Relinquished By	Time/Date	Via	Received By	Time/Date
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Turnaround: 24hr
Date Due:
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Oklahoma City, OK 73120
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Fax (405) 755-2058

Polarized Light Microscopy
Asbestos Analysis Report

QuanTEM Set ID: 9912P103071
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Allen Clark
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Bass Lake Rd. U.C.
Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
1	1-B	homogeneous	brown joint filler, W-end, W-bd. inside	asbestos not present	N/A	
2	2-B	homogeneous	brown joint filler, W-end,E-bd. inside	asbestos not present	N/A	
3	3-B	homogeneous	brown joint filler, E-end,W-bd. inside	asbestos not present	N/A	
4	4-B	homogeneous	brown joint filler, E-end,E-bd. inside	asbestos not present	N/A	
5	5-B	homogeneous	gray guard rail shim, middle-W bd. side	asbestos present chrysotile 70%	N/A	
6	6-B	homogeneous	gray guard rail shim,E-end,W-bd. inside	asbestos present chrysotile 70%	N/A	
7	7-B	homogeneous	gray guard rail shim,middle,E-bd inside	asbestos present chrysotile 70%	N/A	
8	8-B	homogeneous	gray guard rail shim,W-end,E-bd inside	asbestos present chrysotile 70%	N/A	
9	9-B	homogeneous	gray guard rail shim,W-end,E-bd inside	asbestos present chrysotile 70%	N/A	

Allen Clark
Reviewed and Approved

December 8, 1999
Date

Note: Structures denoted as being "<5μ" refer to the structures whose length is from 0.5μm to 4.9μm.
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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Set ID: 9912P103071
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Allen Clark
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Bass Lake Rd. U.C.
Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
10	10-B	homogeneous	gray guard rail shim,E-end,W-bd inside	asbestos present chrysotile 70%	N/A	

Allen Clark
Reviewed and Approved

December 8, 1999
Date

Note: Structures denoted as being "<5μ" refer to the structures whose length is from 0.5μm to 4.9μm.
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9912K10507

Asbestos Chain-of-Custody Form

QUANTEM LABORATORIES
2033 Heritage Park Drive, Oklahoma City, OK 73120
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Page 1 of 1

Company Name: HB&T Environmental, Inc.
Project: El Dorado County, CA
Project Location: Bass Lake Rd. U.C.
Project Number: 3215.99

☑ Analytical Service Requested

Sample ID Number	☑ To Be Analyzed	Color / Description	Volume / Area (if applicable)	Comments
1-B		Brown Joint filler	West end	Westbound InSide
2-B		Brown Joint filler	Westend	Eastbound InSide
3-B		"	Eastend	Westbound inSide
4-B		"	Eastend	Eastbound inSide
5-B		Gray guardrail Shim	Middle	Westbound inSide
6-B		"	East end	Westbound inSide
7-B		"	Middle	Eastbound inSide
8-B		"	Westend	Eastbound inSide
9-B		"	Westend	Eastbound inSide
10-B		"	Eastend	Westbound inSide

TEM

	Air - AHERA clearance*
	Air - TEM
	Air - NIOSH 7402
	Bulk - Qualitative [Yes / No] (EPA 600/R-93/116)
	Bulk - Quantitative [weight %] (Chatfield)
	Dust - Qualitative [Yes / No]
	Dust - Quantative [fibers / sq. cm] (ASTM D6756)
	Drinking Water (EPA 100.2)
	Waste Water (EPA 600/4-83-043)
	Other

* AHERA clearance samples must consist of 5 inside, 5 outside, and 3 blank samples collected on 0.45 micron 25mm MCE filters with a minimum volume of 550 L.

PLM

X	Bulk Analysis (EPA 600/R-93/116)
	Quantitative Point Counting
	Other

PCM

	NIOSH 7400
	Other

Relinquished By	Time/Date	Via	Received By	Time/Date
[signature]	12-7-99	FedEx	BrandyPelts	09:30 12.8.99
Relinquished By	Time/Date	Via	Received By	Time/Date
	5:00 pm			

Turnaround: 24 hr
Date Due:
Time Due:
Report results to:
Telephone number:
Fax Number:

Saturday FedEx Shipping: (Use for FedEx only)
4220 N. Santa Fe Ave., Oklahoma City, OK 73105 (Mark package "HOLD FOR PICKUP")

QUANTEM® LABORATORIES
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Oklahoma City, OK 73120
Ph. (405) 755-7272
Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Set ID: 9912P103073
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Joe Melton
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Clarksville Rd. U.C.
Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
1	1-B	homogeneous	gray guardrail shim,E-end,E-bd. inside	asbestos present chrysotile 70%	N/A	
2	2-B	homogeneous	gray guardrail shim,E-end,W-bd. inside	asbestos present chrysotile 70%	N/A	
3	3-B	homogeneous	gray guardrail shim,middle,W-bd. inside	asbestos present chrysotile 70%	N/A	
4	4-B	homogeneous	gray guard rail shim,W-end,W-bd. inside	asbestos present chrysotile 70%	N/A	
5	5-B	homogeneous	gray guard rail shim,middle,E-bd. inside	asbestos present chrysotile 70%	N/A	
6	6-B	homogeneous	gray guard rail shim,W-end,E-bd. inside	asbestos present chrysotile 70%	N/A	
7	7-B	homogeneous	brown joint filler,E-end,E-bd. inside	asbestos not present	cellulose 10%	
8	8-B	homogeneous	brown joint filler,E-end,W-bd. inside	asbestos not present	cellulose 10%	

J. Melton
Reviewed and Approved

December 8, 1999
Date

Note: Structures denoted as being "<5μ" refer to the structures whose length is from 0.5μm to 4.9μm.
QuanTEM is a NVLAP-accredited TEM and PLM laboratory (Lab Code 101959). This report relates only to the specific items tested.
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Oklahoma City, OK 73120
Ph. (405) 755-7272
Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Set ID: 9912P103073
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Joe Melton
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Clarksville Rd. U.C.
Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
9	9-B	homogeneous	brown joint filler,W-end,E-bd. inside	asbestos not present	cellulose 10%	
10	10-B	homogeneous	brown joint filler,W-end,W-bd. inside	asbestos not present	cellulose 10%	

Reviewed and Approved

December 8, 1999
Date

Note: Structures denoted as being "<5µ" refer to the structures whose length is from 0.5µm to 4.9µm.
QuanTEM is a NVLAP-accredited TEM and PLM laboratory (Lab Code 101959). This report relates only to the specific items tested.
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Asbestos Chain-of-Custody Form

EMSL LABORATORIES
2033 Heritage Park Drive, Oklahoma City, OK 73120
(800) 822-1650 (405) 755-7272 Fax (405) 755-2058

Page 1 of 1

Company Name: HB&T Environmental, Inc.
Project: El Dorado County, CA
Project Location: Clarksville Rd. UC.
Project Number: 3215.99

☑ Analytical Service Requested

Sample ID Number	EI To Be Analyzed	Color / Description	Volume / Area (if applicable)	Comments
1-B		Guardrail Shim, Gray	East end	Eastbound Side Inside
2-B		" "	East end	Westbound Side Inside
3-B		" "	Middle	Westbound Side Inside
4-B		" "	West end	Westbound Side Inside
5-B		" "	Middle	Eastbound Side Inside
6-B		" "	West end	Eastbound Side Inside
7-B		Brown Joint Filler	East end	Eastbound Side Inside
8-B		" "	East end	Westbound Side Inside
9-B		" "	West end	Eastbound Side Inside
10-B		" "	West end	Westbound Side Inside

TEM

	Air - AHERA clearance*
	Air - TEM
	Air - NIOSH 7402
	Bulk - Qualitative [Yes / No] (EPA 600/R-93/116)
	Bulk - Quantitative [weight %] (Chatfield)
	Dust - Qualitative [Yes / No]
	Dust - Quantitative [fibers / sq. cm] (ASTM D5755)
	Drinking Water (EPA 100.2)
	Waste Water (EPA 600/4-83-043)
	Other

*AHERA clearance samples must consist of 5 inside, 5 outside, and 5 blank samples collected on 0.45 micron 25mm MCE filters with a minimum volume of 560 L.

PLM

X	Bulk Analysis (EPA 600/R-93/116)
	Quantitative Point Counting
	Other

PCM

	NIOSH 7400
	Other

Relinquished By	Time/Date	Via	Received By	Time/Date
Tim Byrne	12-7-99 5:00 pm	FedEx	Brandy Fields	12-8-99 09:30
Relinquished By	Time/Date	Via	Received By	Time/Date

Turnaround: 24 hr
Date Due:
Time Due:
Report results to:
Telephone number:
Fax Number:

Saturday FedEx Shipping: (Use for FedEx only)
4220 N. Santa Fe Ave., Oklahoma City, OK 73105
(Mark package "HOLD FOR PICKUP")

QUANTEM® LABORATORIES
2033 Heritage Park Drive
Oklahoma City, OK 73120
Ph. (405) 755-7272
Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Set ID: 9912P103072
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Joe Melton
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Latrobe Rd. U.C
Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
1	1-A	homogeneous	gray pad, SW guard rail, S bridge	asbestos present chrysotile 70%	N/A	
2	1-B	homogeneous	gray pad, NE guard rail, S bridge	asbestos present chrysotile 70%	N/A	
3	2-A	homogeneous	brown/black joint filler, S bridge	asbestos not present	cellulose 10%	
4	3-B	homogeneous	gray guardrail shim, W-end,W-bd. inside	asbestos present chrysotile 70%	N/A	
5	4-B	homogeneous	gray guardrail shim, E-end,W-bd. inside	asbestos present chrysotile 70%	N/A	
6	5-B	homogeneous	gray guardrail shim, middle,W-bd. inside	asbestos present chrysotile 70%	N/A	
7	6-B	homogeneous	gray guardrail shim,E-end,E-bd. inside	asbestos present chrysotile 70%	N/A	
8	7-B	homogeneous	brown joint filler, W-end,W-bd. inside	asbestos not present	cellulose 10%	
9	8-B	homogeneous	brown joint filler, W-end,E-bd. inside	asbestos not present	cellulose 10%	
10	9-B	homogeneous	brown joint filler, E-end,E-bd. inside	asbestos not present	cellulose 10%	

J. Melton
Reviewed and Approved

December 8, 1999
Date

Note: Structures denoted as being "<5μ" refer to the structures whose length is from 0.5μm to 4.9μm.
QuanTEM is a NVLAP-accredited TEM and PLM laboratory (Lab Code 101959). This report relates only to the specific items tested.
NVLAP accreditation applies only to AHERA analysis [40 CFR Ch. I (1-1-87 ed.) Part 763, Appendix A to Subparts E and F].
This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

9912810040

QUANTEM® LABORATORIES

Asbestos Chain-of-Custody Form

2033 Heritage Park Drive, Oklahoma City, OK 73120
(800) 822-1650 (405) 755-7272 Fax (405) 755-2058

Company Name: HB&T Environmental
Project: El Dorado County, CA
Project Location: Latrobe Rd, U.C.
Project Number: 3215.99

Sample ID Number	☑ To Be Analyzed	Color / Description	Volume / Area (if applicable)	Comments
1-A		Grey pad between metal & concrete		S.W. guardrail of South bridge
1-B		"	"	N.E. guardrail of North bridge
2-A		Brown/black joint filler		South bridge between slabs
3-B		Gray guardrail Shim	Westend	Westbound Side Inside
4-B		" "	Eastend	Westbound Side Inside
5-B		" "	Middle	Westbound Side Inside
6-B		" "	Eastend	Eastbound Side Inside
7-B		Brown Joint filler	Westend	Westbound Side Inside
8-B		Brown Joint filler	Westend	Eastbound Side Inside
9-B		Brown Joint filler	Eastend	Eastbound Side Inside
10-B		Brown Joint filler	Eastend	Westbound Side Inside

☑ Analytical Service Requested

TEM

☐	Air - AHERA clearance*
☐	Air - TEM
☐	Air - NIOSH 7402
☐	Bulk - Qualitative (Yes / No) (EPA 600/R-93/116)
☐	Bulk - Quantitative [weight %] (Chatfield)
☐	Dust - Qualitative (Yes / No)
☐	Dust - Quantative [fibers / sq. cm] (ASTM D5755)
☐	Drinking Water (EPA 100.2)
☐	Waste Water (EPA 600/4-83-043)
☐	Other

* AHERA clearance samples must consist of 5 inside, 5 outside, and 3 blank samples collected on 0.45 micron 25mm MCE filters with a minimum volume of 560 L.

PLM

X	Bulk Analysis (EPA 600/R-93/116)
☐	Quantitative Point Counting
☐	Other

PCM

☐	NIOSH 7400
☐	Other

Relinquished By	Time/Date	Via	Received By	Time/Date
[signature]	12-7-99 5:00 pm	Fed Ex	Brandy Pelts	0930 12.8.99
Relinquished By	Time/Date	Via	Received By	Time/Date

Turnaround: 24hr
Date Due:
Time Due:
Report results to:
Telephone number:
Fax Number:

Saturday FedEx Shipping: *(Use for FedEx only)* 4220 N. Santa Fe Ave., Oklahoma City, OK 73105 (Mark package "***HOLD FOR PICKUP***")

QUANTEM® LABORATORIES
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Oklahoma City, OK 73120
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Fax (405) 755-2058

Polarized Light Microscopy
Asbestos Analysis Report

QuanTEM Set ID: 9912P103072
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Joe Melton
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Latrobe Rd. U.C
Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
11	10-B	homogeneous	brown joint filler, E-end,W-bd. inside	asbestos not present	cellulose 10%	

J. Melton
Reviewed and Approved

December 8, 1999
Date

Note: Structures denoted as being "<5μ" refer to the structures whose length is from 0.5μm to 4.9μm.
QuanTEM is a NVLAP-accredited TEM and PLM laboratory (Lab Code 101959). This report relates only to the specific items tested.
NVLAP accreditation applies only to AHERA analysis [40 CFR Ch. I (1-1-87 ed.) Part 763, Appendix A to Subparts E and F].
This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

APPENDIX B

CREEK ENVIRONMENTAL LABORATORIES, INC.
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Ian Stevenson
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3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 07-C15347
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B16,17-0	Ian Stevenson	11/26/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	20	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2389

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Log Number: 07-C15348
Order: 06248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B16,17-1	Ian Stevenson	11/26/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	6.2	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2389

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

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Log Number: 07-C15349
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B18,19,20-0	Ian Stevenson	11/26/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
pH	7.4	0.1	1	pH units	EPA 9045	12/12/07		2447
Lead	23	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2389

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15350
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B18,19,20-1	Ian Stevenson	11/26/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	2.3	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2389

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15351
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B18,20-2	Ian Stevenson	11/26/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	2.1	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2389

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15352
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B50,52,54,56-0	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	66	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15353
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B50,52,54,56-1	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	3.9	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15354
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B50,52-2	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	2.0	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15355
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B51,53,55,57-0	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	33	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15356
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B51,53,55,57-1	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	2.2	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15357
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B51,55,57-2	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	2.2	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Rancho Cordova, CA 95742

Log Number: 07-C15358
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B58,60,62,64-0	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	33	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Lab Director, Michael Ng

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Log Number: 07-C15359
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B58,60,62,64-1	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.9	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Lab Director, Michael Ng

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Log Number: 07-C15360
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

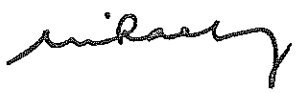
REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B58,62,64-2	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
pH	6.9	0.1	1	pH units	EPA 9045	12/12/07		2447
Lead	2.3	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES



Lab Director, Michael Ng

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Ian Stevenson
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Rancho Cordova, CA 95742

Log Number: 07-C15361
Order: 06248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B59,61,63,65-0	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	70	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

CREEK ENVIRONMENTAL LABORATORIES, INC.
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Ian Stevenson
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Log Number: 07-C15362
Order: 06248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B59,61,63,65-1	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.7	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Log Number: 07-C15363
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B63-2	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Log Number: 07-C15364
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B66,68,70,72-0	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	150	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Log Number: 07-C15365
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B66,68,70,72-1	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

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Ian Stevenson
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Log Number: 07-C15366
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B66,68,70,72-2	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.3	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15367
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B67,69,71,73-0	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	19	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Lab Director, Michael Ng

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Log Number: 07-C15368
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B67,69,71,73-1	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15369
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B67,69,71,73-2	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
pH	7.0	0.1	1	pH units	EPA 9045	12/12/07		2447
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15370
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B74,76,78,80-0	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	9.0	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15371
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B74,76,78,80-1	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15372
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B74,76,78,80-2	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Log Number: 07-C15373
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B75,77,79,81-0	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	31	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15374
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B75,77,79,81-1	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15375
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B75,77,79,81-2	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15376
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B82,84,86,88,90-0	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	46	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15377
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B82,84,86,88,90-1	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
pH	7.7	0.1	1	pH units	EPA 9045	12/12/07		2447
Lead	3.5	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15378
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B82,84,86,88-2	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.7	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15379
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B83,85,87,89,91-0	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	19	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

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Log Number: 07-C15380
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B83,85,87,89,91-1	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.2	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15381
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B83,85,87,89,91-2	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

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Log Number: 07-C15382
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
PC-2 (Paint Chip)	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Chromium	100	1	2	mg/Kg	EPA 6020	12/12/07	12/11/07	2515
Lead	290	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15383
Order: O6248
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
PC-3 (Paint Chip)	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Chromium	90	1	2	mg/Kg	EPA 6020	12/12/07	12/11/07	2515
Lead	210	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Quality Control Results

Order No.: 06248

Laboratory Reagent Blank

Analyte	Method	Results	Units	Batch
Lead	EPA 6020	< 1	mg/Kg	2389
Lead	EPA 6020	< 1	mg/Kg	2391
Lead	EPA 6020	< 1	mg/Kg	2391
Lead	EPA 6020	< 1	mg/Kg	2510
Lead	EPA 6020	< 1	mg/Kg	2510
Lead	EPA 6020	< 1	mg/Kg	2510
Lead	EPA 6020	< 1	mg/Kg	2510
Lead	EPA 6020	< 1	mg/Kg	2510

Laboratory Known Analysis (LCS)

Analyte	Method	Recovery	Spike Amount	Units	Recovery Limits	Batch
pH	EPA 9045	100%	7.0	pH units	90 - 110	2447
Chromium	EPA 6020	94%	73	mg/Kg	60 - 140	2515
Lead	EPA 6020	94%	130	mg/Kg	60 - 140	2510

Matrix Spike/Matrix Spike Duplicates

Analyte	Method	MS Rec.	MSD Rec.	RPD	Matrix Sample	Spike Amount	Units	Recovery Limits	RPD Limit	Batch
Chromium	EPA 6020	95%	95%	0	07-C15424	50	mg/Kg	60 - 140	30	2515
Lead	EPA 6020	70%			07-C15350	50	mg/Kg	60 - 140	30	2391
Lead	EPA 6020	70%			07-C15360	50	mg/Kg	60 - 140	30	2391
Lead	EPA 6020	51%			07-C15375	50	mg/Kg	60 - 140	30	2510
Lead	EPA 6020	82%			07-C15386	50	mg/Kg	60 - 140	30	2510
Lead	EPA 6020	31%			07-C15394	50	mg/Kg	60 - 140	30	2510
Lead	EPA 6020	59%			07-C15340	50	mg/Kg	60 - 140	30	2510

Sample Duplicate

Analyte	Method	Sample ID	Sample Value	Sample Duplicate	RPD	Units	RPD Limit	Batch
pH	EPA 9045	07-C15360	6.9	6.9	0	pH units	10.	2447
Lead	EPA 6020	07-C15351	2.1	1.6	27	mg/Kg	30.	2389
Lead	EPA 6020	07-C15361	70	89	23	mg/Kg	30.	2391
Lead	EPA 6020	07-C15376	46	32	37	mg/Kg	30.	2510
Lead	EPA 6020	07-C15385	< 1	< 1	0	mg/Kg	30.	2510
Lead	EPA 6020	07-C15393	32	32	2	mg/Kg	30.	2510

Creek Environmental Laboratories, Inc.

Chain-of-Custody

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Order # 06248

1 of 5

- Please Print in Pen

Client Name Geocon Consultants	**Contact – Ian Stevenson**	**Phone 916-852-9118**	**Due Date:** 24Hr 48Hr Other Normal TAT
Address 3160 Gold Valley Drive #800 **City** Rancho Cordova **State** CA **Zip** 95742		Fax916-852-9132	Cell 916-869-4308 Beeper
Project Name/Number Highway 50 SI/S9300-06-22		PO#	Copies To:
Bill to: (if different from above)	Address	City	State Zip
Sampler Name (Print) Ian Stevenson	Comments: Phase 2		**Matrix Key:** DW = Drinking Water AQ = Aqueous SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix	# of Bottles	Preservative / Type Bottles	Creek Lab Sample #
B16,17-0	11/26/07	Total Lead 6010B	S	2	none bags	15347
B16,17-1			S	2		15348
B18,19,20-0		Total Lead 6010B, pH	S	3		15349
B18,19,20-1			S	3		15350
B18,~~19~~,20-2			S	2		15351
B50,52,54,56-0	11/27/07		S	4		15352
B50,52,54,56-1			S	4		15353
B50,52,-2			S	2		15354
B51,53,55,57-0			S	4		15355

RELINQUISHED BY (Sign)	(Print)	(Organization)	DATE/TIME	RECEIVED BY (Sign)	(Print)	(Organization)
	Ian Stevenson	Geocon	11/29/07 1030			Creek Environmental Laboratories, Inc.

FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier: Sample Conditions: Temp:_____ Intact: Y/N Custody Sealed: Y/N

REMARKS Composite samples per doc 11/26/07
Method 6020 okay 2nd report dL = 1 mg/kg

Creek Environmental Laboratories, Inc.

Chain-of-Custody

141 Suburban Road, Suite C-5, San Luis Obispo, CA 93401 phone (805) 545-9838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com

Order # 06298

2 of 5

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Client Name Geocon Consultants	Contact – Ian Stevenson	Phone 916-852-9118	Due Date: 24Hr 48Hr Other Normal TAT
Address 3160 Gold Valley Drive #800	City Rancho Cordova	State CA CA	Zip 95742	Fax916-852-9132	Cell 916-869-4308 Beeper
Project Name/Number Highway 50 SI/S9300-06-22		PO#	Copies To:
Bill to: (if different from above)	Address	City	State	Zip
Sampler Name (Print) Ian Stevenson	Comments: Phase 2		Matrix Key: DW = Drinking Water AQ = Aqueous SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix	# of Bottles	Preservative / Type Bottles	Creek Lab Sample #
B51,53,55,57-1	11/27/07	Total Lead 6010B	S			15356
B51,55,57-2			S			15357
B58,60,62,64-0			S			15358
B58,60,62,64-1			S			15359
B58,62,64-2		Total Lead 6010B, pH	S			15360
B59,61,63,65-0		Total Lead 6010B	S			15361
B59,61,63,65-1			S			15362
B63-2			S			15363
B66,68,70,72-0			S			15364

RELINQUISHED BY (Sign)	(Print)	(Organization)	DATE/TIME	RECEIVED BY (Sign)	(Print)	(Organization)
	Ian Stevenson	Geocon	11/29/07 1030			Creek Environmental Laboratories, Inc.

FOR LAB USE ONLY: Shipping Method: Client/ ~~Lab~~/ Courier: Sample Conditions: Temp:_____ Intact: (Y/N) Custody Sealed: Y/(N)

REMARKS (NOA101-0) 15361

Creek Environmental Laboratories, Inc.

Chain-of-Custody

141 Suburban Road, Suite C-5, San Luis Obispo, CA 93401 phone (805) 545-9838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com

Order # D0248

3 of 5

- Please Print in Pen

Client Name Geocon Consultants	**Contact – Ian Stevenson**	**Phone 916-852-9118**	**Due Date:** 24Hr 48Hr Other Normal TAT
Address 3160 Gold Valley Drive #800 **City** Rancho Cordova **State** CA **Zip** 95742		Fax916-852-9132	Cell 916-869-4308 Beeper
Project Name/Number Highway 50 SI/S9300-06-22		PO#	Copies To:
Bill to: (if different from above)	Address	City	State Zip
Sampler Name (Print) Ian Stevenson	Comments: Phase 2		**Matrix Key:** DW = Drinking Water AQ = Aqueous SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix	# of Bottles	Preservative / Type Bottles	Creek Lab Sample #
B66, 68, 70, 72 - 1	11/27/07	Total Lead 6010B	S			15365
B66, 68, 70, 72 - 2			S			15366
B67, 69, 71, 73 - 0			S			15367
B67, 69, 71, 73 - 1			S			15368
B67, 69, 71, 73 - 2		Total Lead 6010B, pH	S			15369
B74, 76, 78, 80 - 0		Total Lead 6010B	S			15370
B74, 76, 78, 80, - 1			S			15371
B74, 76, 78, 80 - 2			S			15372
B75, 77, 79, 81 - 0			S			15373

RELINQUISHED BY (Sign)	(Print)	(Organization)	DATE/TIME	RECEIVED BY (Sign)	(Print)	(Organization)
	Ian Stevenson	Geocon	11/29/07 1030	IAN STEVENSON	IAN STEVENSON	Creek Environmental Laboratories, Inc.

FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier: Sample Conditions: **Temp:**_____ Intact: Y/ N Custody Sealed: Y/ N

REMARKS_____

Creek Environmental Laboratories, Inc. Chain-of-Custody

141 Suburban Road, Suite C-5, San Luis Obispo, CA 93401 phone (805) 545-9838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com

Order # 00248

4 of 5

- Please Print in Pen

Client Name	Contact – Ian Stevenson	Phone 916-852-9118	Due Date:
Geocon Consultants			24Hr 48Hr Other Normal TAT
Address: 3160 Gold Valley Drive #800	City: Rancho Cordova	State: CA Zip: 95742	Fax916-852-9132 / Cell 916-869-4308 / Beeper
Project Name/Number Highway 50 SI/S9300-06-22		PO#	Copies To:
Bill to: (if different from above)	Address	City	State Zip
Sampler Name (Print) Ian Stevenson	Comments: Phase 2		Matrix Key: DW = Drinking Water, AQ = Aqueous, SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix	# of Bottles	Preservative / Type Bottles	Creek Lab Sample #
B75, 77, 79, 81-1	11/27/07	Total Lead 6010B	S			15374
B75, 77, 79, 81-2		↓	S			15375
B82, 84, 86, 88, 90-0		↓	S			15376
B82, 84, 86, 88, 90-1		Total Lead 6010B, pH	S			15377
B82, 84, 86, 88-2		Total Lead 6010B	S			15378
B83, 85, 87, 89, 91-0			S			15379
B83, 85, 87, 89, 91-1		↓	S			15380
B83, 85, 87, 89, 91-2	↓	↓	S			15381
~~B46, 47, 48, 49-0~~ (N)	~~11/26~~ 11/27	~~Title 22 metals~~	S	4	ice ~~Tube~~ Jar	

RELINQUISHED BY (Sign)	(Print)	(Organization)	DATE/TIME	RECEIVED BY (Sign)	(Print)	(Organization)
	Ian Stevenson	Geocon	11/29/07 1030	IANKUNSON	IANKUNSON	Creek Environmental Laboratories, Inc.

FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier: Sample Conditions: Temp:____ Intact: Y/ N Custody Sealed: Y/ N

REMARKS missing 46-47-48-49 (0,1,2) called client (cancelled)

Creek Environmental Laboratories, Inc.

Chain-of-Custody

141 Suburban Road, Suite C-5, San Luis Obispo, CA 93401 phone (805) 545-9838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com

Order # 06298

5 of 5

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Client Name Geocon Consultants	**Contact – Ian Stevenson**	**Phone 916-852-9118**	**Due Date:** 24Hr 48Hr Other Normal TAT
Address 3160 Gold Valley Drive #800 **City** Rancho Cordova **State** CA **Zip** 95742		Fax916-852-9132	Cell 916-869-4308 Beeper
Project Name/Number Highway 50 SI/S9300-06-22		PO#	Copies To:
Bill to: (if different from above)	Address	City	State Zip
Sampler Name (Print) Ian Stevenson	Comments: Phase 2		**Matrix Key:** DW = Drinking Water AQ = Aqueous SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix	# of Bottles	Preservative / Type Bottles	Creek Lab Sample #
~~B46, 47, 48, 49-1~~	~~11/26/11/27~~	title 22 metals	S	4	ice ~~tube/foam bag~~	
~~B46, 47, 48, 49-2~~	~~11/26/11/27~~	↓	S	4	↓ ↓	
PC-2 (Paint chip)	11/27/07	Total Lead 6010/Total Chromium 6010	S	1	none bag	15382
PC-3 (Paint chip)	↓	↓	S	1	↓ ↓	15383
			S			
			S			
			S			
			S			
			S			

RELINQUISHED BY (Sign)	(Print)	(Organization)	DATE/TIME	RECEIVED BY (Sign)	(Print)	(Organization)
	Ian Stevenson	Geocon	11/29/07 0320			Creek Environmental Laboratories, Inc.

FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier: Sample Conditions: Temp:_____ Intact: Y/ N Custody Sealed: Y/ N

REMARKS MISSING 46-47-48-49 (0,1,2) (called client, cancelled)

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Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 07-C15449
Order: O6274
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/30/07
Printed: 12/11/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B46,47,48,49-0	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Mercury	Not Detected	0.04	1	mg/Kg	EPA 7471	12/04/07	12/4/07	2119
Antimony	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Arsenic	0.8	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Barium	42	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Beryllium	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Cadmium	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Chromium	22	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Cobalt	20	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Copper	44	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Lead	28	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Molybdenum	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Nickel	16	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Selenium	Not Detected	0.5	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Silver	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Thallium	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Vanadium	110	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Zinc	36	4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

CREEK ENVIRONMENTAL LABORATORIES, INC.
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Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 07-C15450
Order: O6274
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/30/07
Printed: 12/11/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B46,47,48,49-1	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Mercury	Not Detected	0.04	1	mg/Kg	EPA 7471	12/04/07	12/4/07	2119
Antimony	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Arsenic	0.6	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Barium	60	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Beryllium	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Cadmium	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Chromium	20	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Cobalt	27	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Copper	76	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Lead	2.3	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Molybdenum	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Nickel	15	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Selenium	Not Detected	0.5	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Silver	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Thallium	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Vanadium	120	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Zinc	24	4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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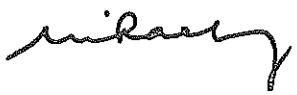

Lab Director, Michael Ng

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Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 07-C15451
Order: O6274
Project: HWY 50 SI/S9300-06-22 Phase 2
Received: 11/30/07
Printed: 12/11/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B46,47,48,49-2	Ian Stevenson	11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Mercury	Not Detected	0.04	1	mg/Kg	EPA 7471	12/04/07	12/4/07	2119
Antimony	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Arsenic	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Barium	39	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Beryllium	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Cadmium	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Chromium	17	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Cobalt	18	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Copper	84	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Lead	0.9	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Molybdenum	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Nickel	20	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Selenium	Not Detected	0.5	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Silver	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Thallium	Not Detected	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Vanadium	92	0.4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373
Zinc	17	4	1	mg/Kg	EPA 6020	12/10/07	12/10/07	2373

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Lab Director, Michael Ng

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Quality Control Results

Order No.: 06274
Laboratory Reagent Blank

Analyte	Method	Results	Units	Batch
Mercury	EPA 7471	< 0.04	mg/Kg	2119
Antimony	EPA 6020	< 0.4	mg/Kg	2373
Arsenic	EPA 6020	< 0.4	mg/Kg	2373
Barium	EPA 6020	< 0.4	mg/Kg	2373
Beryllium	EPA 6020	< 0.4	mg/Kg	2373
Cadmium	EPA 6020	< 0.4	mg/Kg	2373
Chromium	EPA 6020	< 0.4	mg/Kg	2373
Cobalt	EPA 6020	< 0.4	mg/Kg	2373
Copper	EPA 6020	< 0.4	mg/Kg	2373
Lead	EPA 6020	< 0.4	mg/Kg	2373
Molybdenum	EPA 6020	< 0.4	mg/Kg	2373
Nickel	EPA 6020	< 0.4	mg/Kg	2373
Selenium	EPA 6020	< 0.5	mg/Kg	2373
Silver	EPA 6020	< 0.4	mg/Kg	2373
Thallium	EPA 6020	< 0.4	mg/Kg	2373
Vanadium	EPA 6020	< 0.4	mg/Kg	2373
Zinc	EPA 6020	< 4	mg/Kg	2373

Laboratory Known Analysis (LCS)

Analyte	Method	Recovery	Spike Amount	Units	Recovery Limits	Batch
Mercury	EPA 7471	101%	8.3	mg/Kg	56 - 148	2119
Antimony	EPA 6020	110%	90	mg/Kg	10 - 120	2373
Arsenic	EPA 6020	70%	130	mg/Kg	60 - 140	2373
Barium	EPA 6020	97%	320	mg/Kg	60 - 140	2373
Beryllium	EPA 6020	111%	90	mg/Kg	60 - 140	2373
Cadmium	EPA 6020	113%	66	mg/Kg	60 - 140	2373
Chromium	EPA 6020	109%	73	mg/Kg	60 - 140	2373
Cobalt	EPA 6020	107%	73	mg/Kg	60 - 140	2373
Copper	EPA 6020	98%	68	mg/Kg	60 - 140	2373
Lead	EPA 6020	98%	130	mg/Kg	60 - 140	2373
Molybdenum	EPA 6020	108%	49	mg/Kg	60 - 140	2373
Nickel	EPA 6020	106%	56	mg/Kg	60 - 140	2373
Selenium	EPA 6020	112%	160	mg/Kg	60 - 140	2373
Silver	EPA 6020	70%	100	mg/Kg	60 - 140	2373
Thallium	EPA 6020	84%	170	mg/Kg	60 - 140	2373
Vanadium	EPA 6020	110%	83	mg/Kg	60 - 140	2373
Zinc	EPA 6020	88%	180	mg/Kg	60 - 140	2373

Matrix Spike/Matrix Spike Duplicates

Analyte	Method	MS Rec.	MSD Rec.	RPD	Matrix Sample	Spike Amount	Units	Recovery Limits	RPD Limit	Batch
Antimony	EPA 6020	95%	102%	7	07-C15544	50	mg/Kg	10 - 120	30	2373

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Quality Control Results

Order No.: 06274

Matrix Spike/Matrix Spike Duplicates

Analyte	Method	MS Rec.	MSD Rec.	RPD	Matrix Sample	Spike Amount	Units	Recovery Limits	RPD Limit	Batch
Arsenic	EPA 6020	92%	96%	4	07-C15544	50	mg/Kg	60 - 140	30	2373
Barium	EPA 6020	83%	84%	2	07-C15544	50	mg/Kg	60 - 140	30	2373
Beryllium	EPA 6020	98%	100%	2	07-C15544	50	mg/Kg	60 - 140	30	2373
Cadmium	EPA 6020	101%	103%	2	07-C15544	50	mg/Kg	60 - 140	30	2373
Chromium	EPA 6020	99%	101%	2	07-C15544	50	mg/Kg	60 - 140	30	2373
Cobalt	EPA 6020	104%	105%	2	07-C15544	50	mg/Kg	60 - 140	30	2373
Copper	EPA 6020	104%	105%	1	07-C15544	50	mg/Kg	60 - 140	30	2373
Lead	EPA 6020	100%	101%	1	07-C15544	50	mg/Kg	60 - 140	30	2373
Molybdenum	EPA 6020	90%	92%	1	07-C15544	50	mg/Kg	60 - 140	30	2373
Nickel	EPA 6020	102%	105%	2	07-C15544	50	mg/Kg	60 - 140	30	2373
Selenium	EPA 6020	102%	105%	3	07-C15544	200	mg/Kg	60 - 140	30	2373
Silver	EPA 6020	98%	98%	0	07-C15544	50	mg/Kg	50 - 130	30	2373
Thallium	EPA 6020	113%	113%	0	07-C15544	50	mg/Kg	60 - 140	30	2373
Vanadium	EPA 6020	105%	102%	2	07-C15544	50	mg/Kg	60 - 140	30	2373
Zinc	EPA 6020	114%	116%	2	07-C15544	50	mg/Kg	60 - 140	30	2373

Sample Duplicate

Analyte	Method	Sample ID	Sample Value	Sample Duplicate	RPD	Units	RPD Limit	Batch
Antimony	EPA 6020	07-C15543	< 0.4	< 0.4	0	mg/Kg	30.	2373
Arsenic	EPA 6020	07-C15543	< 0.4	< 0.4	0	mg/Kg	30.	2373
Barium	EPA 6020	07-C15543	0.50	0.50	0	mg/Kg	30.	2373
Beryllium	EPA 6020	07-C15543	< 0.4	< 0.4	0	mg/Kg	30.	2373
Cadmium	EPA 6020	07-C15543	< 0.4	< 0.4	0	mg/Kg	30.	2373
Chromium	EPA 6020	07-C15543	0.50	0.50	0	mg/Kg	30.	2373
Cobalt	EPA 6020	07-C15543	< 0.4	< 0.4	0	mg/Kg	30.	2373
Copper	EPA 6020	07-C15543	< 0.4	< 0.4	0	mg/Kg	30.	2373
Lead	EPA 6020	07-C15543	< 0.4	< 0.4	0	mg/Kg	30.	2373
Molybdenum	EPA 6020	07-C15543	< 0.4	< 0.4	0	mg/Kg	30.	2373
Nickel	EPA 6020	07-C15543	< 0.4	< 0.4	0	mg/Kg	30.	2373
Selenium	EPA 6020	07-C15543	< 0.5	< 0.5	0	mg/Kg	30.	2373
Silver	EPA 6020	07-C15543	< 0.4	< 0.4	0	mg/Kg	30.	2373
Thallium	EPA 6020	07-C15543	< 0.4	< 0.4	0	mg/Kg	30.	2373
Vanadium	EPA 6020	07-C15543	31	29	5	mg/Kg	30.	2373
Zinc	EPA 6020	07-C15543	< 4	< 4	0	mg/Kg	30.	2373

Creek Environmental Laboratories, Inc.

Chain-of-Custody

141 Suburban Road, Suite C-5, San Luis Obispo, CA 93401 phone (805) 545-9838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com

Order # 06274

10 day.

- Please Print in Pen

Client Name Geocon Consultants	**Contact – Ian Stevenson**	**Phone 916-852-9118**	**Due Date:** 24Hr 48Hr Other (Normal TAT)
Address 3160 Gold Valley Drive #800 **City** Rancho Cordova **State** CA **Zip** 95742		Fax916-852-9132	Cell 916-869-4308 Beeper
Project Name/Number Highway 50 SI/S9300-06-22		PO#	Copies To:
Bill to: (if different from above)	Address	City	State Zip
Sampler Name (Print) Ian Stevenson	Comments: Phase 2		**Matrix Key:** DW = Drinking Water AQ = Aqueous SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix	# of Bottles	Preservative / Type Bottles	Creek Lab Sample #
B46, 47, 48, 49-O	11/26/11/27	Title 22 metals / CAM17	S	4	ice Tubes/Jars	15449
B46, 47, 48, 49-Z	↓	↓	S	4	↓ ↓	15450
B46, 47, 48, 49-2	↓	↓	S	4	↓ ↓	15451
			S			
			S			
			S			
			S			
			S			
			S			

RELINQUISHED BY (Sign)	(Print)	(Organization)	DATE/TIME	RECEIVED BY (Sign)	(Print)	(Organization)
	Ian Stevenson	Geocon	11/29/07 1400			
			11/30/07 9:25		D Osborne	Creek Environmental Laboratories, Inc.

FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier: GSO Sample Conditions: Temp: 8° Intact: (Y) N Custody Sealed: Y/ (N)

REMARKS

CREEK ENVIRONMENTAL LABORATORIES, INC.
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Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 08-C910
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B134, 136, 138, 140-0	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	25	0.4	1	mg/Kg	EPA 6020	01/28/08	01/27/08	4116

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 08-C911
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B134, 136, 138, 140-1	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	0.5	0.4	1	mg/Kg	EPA 6020	01/28/08	01/27/08	4116

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C912
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B134, 136, 138, 140-2	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	5.0	0.4	1	mg/Kg	EPA 6020	01/28/08	01/27/08	4122

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C913
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B135, 137, 139, 141-0	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
pH	7.6	0.1	1	pH units	EPA 9045	02/04/08		4186
Lead	46	0.4	1	mg/Kg	EPA 6020	01/28/08	01/27/08	4122

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C914
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B135, 137, 139, 141-1	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.4	0.4	1	mg/Kg	EPA 6020	01/28/08	01/27/08	4122

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C915
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B137, 139, 141-2	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	2.1	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C916
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B142, 144, 146, 148-0	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	3.1	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C917
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B142, 144, 146, 148-1	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	2.3	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C918
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B142, 144, 146, 148-2	Ian Stevenson	01/15/080	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	0.8	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C919
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B143, 145, 147, 149-0	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	33	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C920
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B143, 145, 147, 149-1	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.8	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C921
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B143, 145, 147, 149-2	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
pH	7.5	0.1	1	pH units	EPA 9045	02/04/08		4186
Lead	0.5	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting, Results of "Not Detected" are below DLR.

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Log Number: 08-C922
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B150, 152, 154, 160-0	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	8.2	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C923
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B150, 152, 154, 160-1	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	2.5	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C924
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B150, 154-2	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.1	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C925
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B151, 153, 155, 161-0	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	79	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C926
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B151, 153, 155, 161-1	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	2.2	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

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Log Number: 08-C927
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B151, 153, 155, 161-2	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	56	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C928
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B162, 164, 166, 168-0	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	46	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C929
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B162, 164, 166, 168-1	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	20	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C930
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B162, 164, 166, 168-2	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C931
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B163, 165, 167, 169-0	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	79	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C932
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B163, 165, 167, 169-1	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	8.9	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C933
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B163, 165, 167, 169-2	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.4	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C934
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B170, 172, 174, 176-0	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	23	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C935
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B170, 172, 174, 176-1	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
pH	7.4	0.1	1	pH units	EPA 9045	02/04/08		4186
Lead	2.7	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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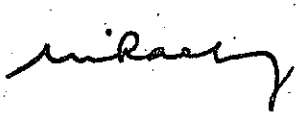

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Log Number: 08-C936
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B170, 172, 176-2	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	4.5	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

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Log Number: 08-C937
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B171, 173, 175, 177-0	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
pH	7.7	0.1	1	pH units	EPA 9045	02/04/08		4186
Lead	17	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

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Log Number: 08-C938
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B171, 173, 175, 177-1	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.6	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C939
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B171, 173, 177-2	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.9	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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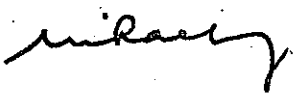

Lab Director, Michael Ng

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Log Number: 08-C940
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B178, 180, 182-0	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	42	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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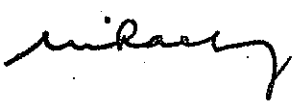

Lab Director, Michael Ng

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Log Number: 08-C941
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B178, 180, 182-1	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	3.2	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C942
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B178, 180, 182-2	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.9	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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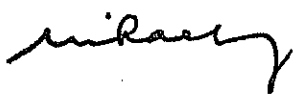

Lab Director, Michael Ng

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Log Number: 08-C943
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B179, 181-0	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	18	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C944
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B179, 181-1	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.2	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4136

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C945
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B179, 181-2	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.3	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4136

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 08-C946
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
PC 8	Ian Stevenson	01/15/08@13:30	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Chromium	240	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4130
Lead	1,000	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4130

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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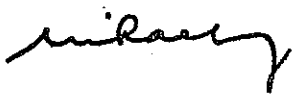

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Log Number: 08-C947
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
PC 9	Ian Stevenson	01/15/08@15:55	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Chromium	230	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4130
Lead	1,000	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4130

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

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Log Number: 08-C948
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
PC 10	Ian Stevenson	01/16/08@11:55	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Chromium	120	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4130
Lead	510	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4130

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Lab Director, Michael Ng

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Log Number: 08-C949
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B187, 188, 189, 190-0	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Mercury	Not Detected	0.04	1	mg/Kg	EPA 7471	01/24/08	01/23/08	3880
Antimony	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Arsenic	1.4	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Barium	53	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Beryllium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Cadmium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Chromium	37	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Cobalt	14	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Copper	56	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Lead	95	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Molybdenum	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Nickel	30	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Selenium	Not Detected	0.5	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Silver	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Thallium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Vanadium	110	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Zinc	61	4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

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Log Number: 08-C950
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B187, 188, 189, 190-1	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Mercury	Not Detected	0.04	1	mg/Kg	EPA 7471	01/24/08	01/23/08	3880
Antimony	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Arsenic	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Barium	69	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Beryllium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Cadmium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Chromium	8.7	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Cobalt	16	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Copper	80	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Lead	1.0	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Molybdenum	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Nickel	11	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Selenium	Not Detected	0.5	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Silver	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Thallium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Vanadium	150	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Zinc	16	4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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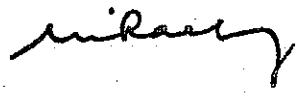

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Log Number: 08-C951
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B187, 188, 189, 190-2	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Mercury	Not Detected	0.04	1	mg/Kg	EPA 7471	01/24/08	01/23/08	3880
Antimony	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Arsenic	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Barium	89	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Beryllium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Cadmium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Chromium	7.9	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Cobalt	18	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Copper	98	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Lead	6.6	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Molybdenum	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Nickel	13	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Selenium	Not Detected	0.5	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Silver	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Thallium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Vanadium	180	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Zinc	20	4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

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Log Number: 08-C952
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B191, 192, 193, 194-0	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Mercury	Not Detected	0.04	1	mg/Kg	EPA 7471	01/24/08	01/23/08	3880
Antimony	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Arsenic	1.3	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Barium	54	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Beryllium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Cadmium	0.4	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Chromium	35	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Cobalt	14	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Copper	62	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Lead	58	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Molybdenum	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Nickel	36	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Selenium	Not Detected	0.5	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Silver	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Thallium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Vanadium	100	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Zinc	50	4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 08-C953
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B191, 192, 193, 194-1	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Mercury	Not Detected	0.04	1	mg/Kg	EPA 7471	01/24/08	01/23/08	3880
Antimony	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Arsenic	0.6	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Barium	37	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Beryllium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Cadmium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Chromium	32	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Cobalt	18	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Copper	92	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Lead	1.3	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Molybdenum	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Nickel	28	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Selenium	Not Detected	0.5	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Silver	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Thallium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Vanadium	140	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Zinc	35	4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 08-C954
Order: P0367
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 01/22/08
Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B191, 192, 193, 194-2	Ian Stevenson	01/16/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Mercury	Not Detected	0.04	1	mg/Kg	EPA 7471	01/24/08	01/23/08	3880
Antimony	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Arsenic	1.0	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Barium	40	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Beryllium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Cadmium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Chromium	37	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Cobalt	16	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Copper	110	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Lead	1.9	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Molybdenum	0.5	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Nickel	24	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Selenium	Not Detected	0.5	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Silver	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Thallium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Vanadium	150	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Zinc	30	4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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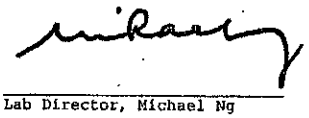

Lab Director, Michael Ng

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Quality Control Results

Order No.: P0367
Laboratory Reagent Blank

Analyte	Method	Results	Units	Batch
Mercury	EPA 7471	< 0.04	mg/Kg	3880
Antimony	EPA 6020	< 0.4	mg/Kg	4035
Arsenic	EPA 6020	< 0.4	mg/Kg	4035
Barium	EPA 6020	< 0.4	mg/Kg	4035
Beryllium	EPA 6020	< 0.4	mg/Kg	4035
Cadmium	EPA 6020	< 0.4	mg/Kg	4035
Chromium	EPA 6020	< 0.4	mg/Kg	4035
Chromium	EPA 6020	< 0.4	mg/Kg	4130
Cobalt	EPA 6020	< 0.4	mg/Kg	4035
Copper	EPA 6020	< 0.4	mg/Kg	4035
Lead	EPA 6020	< 0.4	mg/Kg	4035
Lead	EPA 6020	< 0.4	mg/Kg	4110
Lead	EPA 6020	< 0.4	mg/Kg	4110
Lead	EPA 6020	< 0.4	mg/Kg	4116
Lead	EPA 6020	< 0.4	mg/Kg	4116
Lead	EPA 6020	< 0.4	mg/Kg	4122
Lead	EPA 6020	< 0.4	mg/Kg	4122
Lead	EPA 6020	< 0.4	mg/Kg	4130
Lead	EPA 6020	< 0.4	mg/Kg	4132
Lead	EPA 6020	< 0.4	mg/Kg	4132
Lead	EPA 6020	< 0.4	mg/Kg	4134
Lead	EPA 6020	< 0.4	mg/Kg	4134
Lead	EPA 6020	< 0.4	mg/Kg	4136
Lead	EPA 6020	< 0.4	mg/Kg	4136
Molybdenum	EPA 6020	< 0.4	mg/Kg	4035
Nickel	EPA 6020	< 0.4	mg/Kg	4035
Selenium	EPA 6020	< 0.5	mg/Kg	4035
Silver	EPA 6020	< 0.4	mg/Kg	4035
Thallium	EPA 6020	< 0.4	mg/Kg	4035
Vanadium	EPA 6020	< 0.4	mg/Kg	4035
Zinc	EPA 6020	< 4	mg/Kg	4035

Laboratory Known Analysis (LCS)

Analyte	Method	Recovery	Spike Amount	Units	Recovery Limits	Batch
Mercury	EPA 7471	88%	8.3	mg/Kg	56 - 148	3880
Antimony	EPA 6020	91%	90	mg/Kg	10 - 120	4035
Arsenic	EPA 6020	100%	130	mg/Kg	60 - 140	4035
Barium	EPA 6020	103%	320	mg/Kg	60 - 140	4035
Beryllium	EPA 6020	107%	90	mg/Kg	60 - 140	4035
Cadmium	EPA 6020	114%	66	mg/Kg	60 - 140	4035
Chromium	EPA 6020	103%	73	mg/Kg	60 - 140	4035
Chromium	EPA 6020	94%	73	mg/Kg	60 - 140	4130
Cobalt	EPA 6020	103%	73	mg/Kg	60 - 140	4035
Copper	EPA 6020	99%	68	mg/Kg	60 - 140	4035
Lead	EPA 6020	108%	130	mg/Kg	60 - 140	4035
Lead	EPA 6020	98%	130	mg/Kg	60 - 140	4110
Lead	EPA 6020	98%	130	mg/Kg	60 - 140	4116
Lead	EPA 6020	98%	130	mg/Kg	60 - 140	4122
Lead	EPA 6020	99%	130	mg/Kg	60 - 140	4130

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Quality Control Results

Order No.: P0367

Laboratory Known Analysis (LCS)

Analyte	Method	Recovery	Spike Amount	Units	Recovery Limits	Batch
Lead	EPA 6020	99%	130	mg/Kg	60 - 140	4132
Lead	EPA 6020	99%	130	mg/Kg	60 - 140	4134
Lead	EPA 6020	99%	130	mg/Kg	60 - 140	4136
Molybdenum	EPA 6020	103%	49	mg/Kg	60 - 140	4035
Nickel	EPA 6020	102%	56	mg/Kg	60 - 140	4035
Selenium	EPA 6020	116%	160	mg/Kg	60 - 140	4035
Silver	EPA 6020	106%	100	mg/Kg	60 - 140	4035
Thallium	EPA 6020	89%	170	mg/Kg	60 - 140	4035
Vanadium	EPA 6020	102%	83	mg/Kg	60 - 140	4035
Zinc	EPA 6020	97%	180	mg/Kg	60 - 140	4035

Matrix Spike/Matrix Spike Duplicates

Analyte	Method	MS Rec.	MSD Rec.	RPD	Matrix Sample	Spike Amount	Units	Recovery Limits	RPD Limit	Batch
Mercury	EPA 7471	123%	113%	8	08-C690	0.8	mg/Kg	60 - 140	30	3880
Antimony	EPA 6020	35%			08-C960	50	mg/Kg	10 - 120	30	4035
Arsenic	EPA 6020	84%			08-C960	50	mg/Kg	60 - 140	30	4035
Barium	EPA 6020	96%			08-C960	50	mg/Kg	60 - 140	30	4035
Beryllium	EPA 6020	101%			08-C960	50	mg/Kg	60 - 140	30	4035
Cadmium	EPA 6020	104%			08-C960	50	mg/Kg	60 - 140	30	4035
Chromium	EPA 6020	114%			08-C960	50	mg/Kg	60 - 140	30	4035
Cobalt	EPA 6020	92%			08-C960	50	mg/Kg	60 - 140	30	4035
Copper	EPA 6020	87%			08-C960	50	mg/Kg	60 - 140	30	4035
Lead	EPA 6020	176%			08-C960	50	mg/Kg	60 - 140	30	4035
Lead	EPA 6020	101%			08-C890	50	mg/Kg	60 - 140	30	4110
Lead	EPA 6020	138%			08-C901	50	mg/Kg	60 - 140	30	4116
Lead	EPA 6020	98%			08-C911	50	mg/Kg	60 - 140	30	4116
Lead	EPA 6020	110%			08-C923	50	mg/Kg	60 - 140	30	4132
Lead	EPA 6020	99%			08-C934	50	mg/Kg	60 - 140	30	4134
Lead	EPA 6020	106%			08-C945	50	mg/Kg	60 - 140	30	4136
Molybdenum	EPA 6020	88%			08-C960	50	mg/Kg	60 - 140	30	4035
Nickel	EPA 6020	108%			08-C960	50	mg/Kg	60 - 140	30	4035
Selenium	EPA 6020	103%			08-C960	200	mg/Kg	60 - 140	30	4035
Silver	EPA 6020	98%			08-C960	50	mg/Kg	50 - 130	30	4035
Thallium	EPA 6020	98%			08-C960	50	mg/Kg	60 - 140	30	4035
Vanadium	EPA 6020	92%			08-C960	50	mg/Kg	60 - 140	30	4035
Zinc	EPA 6020	96%			08-C960	50	mg/Kg	60 - 140	30	4035

Sample Duplicate

Analyte	Method	Sample ID	Sample Value	Sample Duplicate	RPD	Units	RPD Limit	Batch
pH	EPA 9045	08-C937	7.7	8.2	6	pH units	10.	4186
Antimony	EPA 6020	08-C961	< 0.4	< 0.4	0	mg/Kg	30.	4035
Arsenic	EPA 6020	08-C961	< 0.4	< 0.4	0	mg/Kg	30.	4035
Barium	EPA 6020	08-C961	65	66	2	mg/Kg	30.	4035
Beryllium	EPA 6020	08-C961	< 0.4	< 0.4	0	mg/Kg	30.	4035
Cadmium	EPA 6020	08-C961	< 0.4	< 0.4	0	mg/Kg	30.	4035
Chromium	EPA 6020	08-C961	160	160	2	mg/Kg	30.	4035

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Quality Control Results

Order No.: P0367

Sample Duplicate

Analyte	Method	Sample ID	Sample Value	Sample Duplicate	RPD	Units	RPD Limit	Batch
Cobalt	EPA 6020	08-C961	44	45	4	mg/Kg	30.	4035
Copper	EPA 6020	08-C961	53	55	4	mg/Kg	30.	4035
Lead	EPA 6020	08-C961	< 0.4	< 0.4	0	mg/Kg	30.	4035
Lead	EPA 6020	08-C891	3.3	4.0	19	mg/Kg	30.	4110
Lead	EPA 6020	08-C902	0.60	0.50	18	mg/Kg	30.	4116
Lead	EPA 6020	08-C912	5.0	3.6	33	mg/Kg	30.	4122
Lead	EPA 6020	08-C922	8.2	9.7	17	mg/Kg	30.	4132
Lead	EPA 6020	08-C933	1.4	1.2	15	mg/Kg	30.	4134
Lead	EPA 6020	08-C944	1.2	1.3	8	mg/Kg	30.	4136
Molybdenum	EPA 6020	08-C961	0.50	< 0.4	22	mg/Kg	30.	4035
Nickel	EPA 6020	08-C961	110	110	4	mg/Kg	30.	4035
Selenium	EPA 6020	08-C961	< 0.5	< 0.5	0	mg/Kg	30.	4035
Silver	EPA 6020	08-C961	< 0.4	< 0.4	0	mg/Kg	30.	4035
Thallium	EPA 6020	08-C961	< 0.4	< 0.4	0	mg/Kg	30.	4035
Vanadium	EPA 6020	08-C961	130	130	2	mg/Kg	30.	4035
Zinc	EPA 6020	08-C961	98	95	3	mg/Kg	30.	4035

Creek Environmental Laboratories, Inc.

Chain-of-Custody

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Order # P0360?

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- Please Print in Pen

Client Name Geocon Consultants	**Contact -- Ian Stevenson**	**Phone 916-852-9118**	**Due Date:** 24Hr 48Hr Other Normal TAT
Address 3160 Gold Valley Drive #800 **City** Rancho Cordova **State** CA **Zip** 95742		Fax916-852-9132	Cell 916-869-4308 Beeper
Project Name/Number Highway 50 SI/S9300-06-22		PO#	Copies To:
Bill to: (if different from above)	Address	City	State Zip
Sampler Name (Print) Ian Stevenson	Comments: Bill per Caltrans Contract 03A1368		**Matrix Key:** DW = Drinking Water AQ = Aqueous SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix	# of Bags Bottles	Preservative / Type Bottles	Creek Lab Sample #
B134, 136, 138, 140-0	1/15/08	Total Lead 6010B	S	4	ABCD wow bags	910
B134, 136, 138, 140-1		↓	S	4	↓	911
B134, 136, 138, 140-2		↓	S	4		912
B135, 137, 139, 141-0		Total Lead 6010B, pH	S	4		913
B135, 137, 139, 141-1		Total Lead 6010B	S	4	↓ ↓	914
B137, 139, 141-2		↓	S	3	ABC	915
B142, 144, 146, 148-0			S	4	ABCD	916
B142, 144, 146, 148-1			S	4	↓	917
B142, 144, 146, 148-2	↓	↓	S	4	↓ ↓	918

RELINQUISHED BY (Sign)	(Print)	(Organization)	DATE/TIME	RECEIVED BY (Sign)	(Print)	(Organization)
	Ian Stevenson	Geocon	1/21/08 1032			
			1/22/08 0935			Creek Environmental Laboratories, Inc.

FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier: Sample Conditions: Temp:_____ Intact: Y/N Custody Sealed: Y/N

REMARKS Phase 2

SAMPLES COMPOSITED + HOMOGENIZED 1/22 + 1/23 MGR

Creek Environmental Laboratories, Inc.

Chain-of-Custody

141 Suburban Road, Suite C-5, San Luis Obispo, CA 93401 phone (805) 545-9838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com

Order # P0360

5 of 9

- Please Print In Pen

Client Name Geocon Consultants	**Contact – Ian Stevenson**	**Phone 916-852-9118**	**Due Date:** 24Hr 48Hr Other (Normal TAT)
Address 3160 Gold Valley Drive #800 **City** Rancho Cordova **State** CA **Zip** 95742		Fax916-852-9132	Cell 916-869-4308 Beeper
Project Name/Number Highway 50 SI/S9300-06-22		PO#	Copies To:
Bill to: (if different from above)	Address	City	State Zip
Sampler Name (Print) Ian Stevenson	Comments: Bill per Caltrans contract 03A1368		**Matrix Key:** DW = Drinking Water AQ = Aqueous SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix	# of Bottles	Preservative / Type Bottles	Creek Lab Sample #
B143,145,147,149-0	1/15/08	Total Lead 6010B	S	4	ABCD none 6020	919
B143,145,147,149-1	↓	↓	S	4	↓	920
B143,145,147,149-2	↓	Total Lead 6010B, pH	S	4	↓	921
B150,152,154,160-0	1/15/16/08	Total Lead 6010B	S	4	↓	922
B150,152,154,160-1	↓	↓	S	4	↓	923
B150,154-2	↓	↓	S	2	AB	924
B151,153,155,161-0	↓	↓	S	4	ABCD	925
B151,153,155,161-1	↓	↓	S	4	↓	926
B151,153,155,161-2	↓	↓	S	4	↓	927

RELINQUISHED BY (Sign)	(Print)	(Organization)	DATE/TIME	RECEIVED BY (Sign)	(Print)	(Organization)
	Ian Stevenson	Geocon	1-21-08/1032			
			1221 0935			Creek Environmental Laboratories, Inc.

FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier: Sample Conditions: Temp:_____ Intact: Y/N Custody Sealed: Y/N

REMARKS Phase 2

SAMPLES COMPOSITED + HOMOGENIZED 1/22 + 1/23 MB

Creek Environmental Laboratories, Inc.

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Chain-of-Custody

Order # P0367

6 of 9

• Please Print In Pen

Client Name Geocon Consultants	Contact – Ian Stevenson	Phone 916-852-9118	Due Date: 24Hr 48Hr Other (Normal TAT)
Address 3160 Gold Valley Drive #800	City Rancho Cordova, State CA, Zip 95742	Fax916-852-9132	Cell 916-869-4308 Beeper
Project Name/Number Highway 50 SI/S9300-06-22		PO#	Copies To:
Bill to: (if different from above)	Address	City	State Zip
Sampler Name (Print) Ian Stevenson	Comments: Bill per Caltrans Contract 03A1368		Matrix Key: DW = Drinking Water AQ = Aqueous SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix	# of Bags	Preservative / Type Bottles	Creek Lab Sample #
B162, 164, 166, 168-0	1/16/08	Total Lead 6010B	S	4	ABCD none bags	928
B162, 164, 166, 168-1	↓	↓	S	4	↓	929
B162, 164, 166, 168-2			S	4		930
B163, 165, 167, 169-0			S	4		931
B163, 165, 167, 169-1			S	4		932
B163, 165, 167, 169-2			S	4		933
B170, 172, 174, 176-0		↓	S	4		934
B170, 172, 174, 176-1		Total Lead 6010B, pH	S	4		935
B170, 172, 176-2	↓	Total Lead 6010B	S	~~4~~ 3	~~ABC~~	936

RELINQUISHED BY (Sign)	(Print)	(Organization)	DATE/TIME	RECEIVED BY (Sign)	(Print)	(Organization)
[signature]	Ian Stevenson	Geocon	1-21-08/1032			
			1/22/8 0935	[signature]	[signature]	Creek Environmental Laboratories, Inc.

FOR LAB USE ONLY: Shipping Method: Client/ Lab/ (Courier:) Sample Conditions: Temp:_____ Intact: (Y)/N Custody Sealed: Y/(N)

REMARKS Phase 2

SAMPLES COMPOSITED + HOMOGENIZED 1/22 + 1/23 MBR

Creek Environmental Laboratories, Inc.

Chain-of-Custody

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Order # PO3607

7 of 9

• Please Print in Pen

Client Name Geocon Consultants	**Contact – Ian Stevenson**	**Phone 916-852-9118**	**Due Date:** 24Hr 48Hr Other Normal TAT
Address 3160 Gold Valley Drive #800 **City** Rancho Cordova **State** CA **Zip** 95742		Fax916-852-9132	Cell 916-869-4308 Beeper
Project Name/Number Highway 50 SI/S9300-06-22		PO#	Copies To:
Bill to: (if different from above)	Address	City	State Zip
Sampler Name (Print) Ian Stevenson	Comments: Bill per Caltrans Contract 03A1368		**Matrix Key:** DW = Drinking Water AQ = Aqueous SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix	# of Bottles	Preservative / Type Bottles	Creek Lab Sample #
B171,173,175,177-0	1/16/08	Total Lead 6010B, pH	S	4	ABCD 40ml bags	937
B171,173,175,177-1		Total Lead 6010B	S	4	ABCD	938
B171,173,177-2			S	3	ABC	939
B178,180,182-0			S	3		940
B178,180,182-1			S	3		941
B178,180,182-2			S	3		942
B179,181-0			S	2	AB	943
B179,181-1			S	2		944
B179,181-2			S	2		945

RELINQUISHED BY (Sign)	(Print)	(Organization)	DATE/TIME	RECEIVED BY (Sign)	(Print)	(Organization)
	Ian Stevenson	Geocon	1/21/08 1032 1/24/08 0935			Creek Environmental Laboratories, Inc.

FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier: Sample Conditions: Temp:_____ Intact: Y/N Custody Sealed: Y/N

REMARKS Phase 2

SAMPLES COMPOSITED + HOMOGENIZED 1/22 + 1/23 MOR

Creek Environmental Laboratories, Inc.

Chain-of-Custody

141 Suburban Road, Suite C-5, San Luis Obispo, CA 93401 phone (805) 545-9838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com

Order # P0367
8 of 9

• Please Print In Pen

Client Name Geocon Consultants	Contact – Ian Stevenson	Phone 916-852-9118	Due Date: 24Hr 48Hr Other (Normal TAT)
Address 3160 Gold Valley Drive #800, City Rancho Cordova, State CA, Zip 95742		Fax916-852-9132	Cell 916-869-4308 Beeper
Project Name/Number Highway 50 SI/S9300-06-22		PO#	Copies To:
Bill to: (if different from above)	Address	City	State Zip
Sampler Name (Print) Ian Stevenson	Comments: Bill per Caltrans Contract 03A1368		Matrix Key: DW = Drinking Water AQ = Aqueous SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix	# of Bottles	Preservative / Type Bottles	Creek Lab Sample #
PC8	1/15/08 1330	Total Lead + Chromium 6010	S	1	none bags	946 ✓
PC9	1/15/08 1555	↓	S	1	↓ ↓	947 ✓
PC10	1/16/08 1155	↓	S	1	↓ ↓	948 ✓
B187, 188, 189, 190 -0	1/16/08	Title 22 Metals / CAM17	S	4	ICE ABCD / Tubes	949 ✓
B187, 188, 189, 190 -1	↓	↓	S	4	↓	950 ✓
B187, 188, 189, 190 -2	↓	↓	S	4	↓	951 ✓
B191, 192, 193, 194 -0	↓	↓	S	4	↓	952 ✓
B191, 192, 193, 194 -1	↓	↓	S	4	↓	953 ✓
B191, 192, 193, 194 -2	↓	↓	S	4	↓	954 ✓

RELINQUISHED BY (Sign)	(Print)	(Organization)	DATE/TIME	RECEIVED BY (Sign)	(Print)	(Organization)
[signature]	Ian Stevenson	Geocon	1-21-08/1032			
			1/22/08 0935	[signature]	[signature]	Creek Environmental Laboratories, Inc.

FOR LAB USE ONLY: Shipping Method: Client/ Lab/ (Courier): Sample Conditions: Temp:____ Intact: (Y)/N Custody Sealed: (Y)/N

REMARKS Phase 2
SAMPLES COMPOSITED + HOMOGENIZED 1/22 + 1/23 MBR

CREEK ENVIRONMENTAL LABORATORIES, INC.
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Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 07-C16193
Order: 06615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B1,3,5,7-0 (15312)		11/26/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	2.6	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

Phase I Sample - Not Applicable To This Report

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Ian Stevenson
Geocon Consultants
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Rancho Cordova, CA 95742

Log Number: 07-C16194
Order: 06615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B10,12,14-0 (15321)		11/26/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	2.2	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

Phase I Sample - Not Applicable To This Report

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Log Number: 07-C16195
Order: 06615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B12,14-2 (15323)		11/26/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	9.6	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

Phase I Sample - Not Applicable to This Report

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Log Number: 07-C16196
Order: 06615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B43,44,45-0 (15342)		11/26/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	8.0	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

Phase I Sample – Not Applicable To this Report

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Log Number: 07-C16197
Order: O6615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B50,52,54,56-0 (15352)		11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	2.2	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Log Number: 07-C16198
Order: 06615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B59,61,63,65-0 (15361)		11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	6.0	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Rancho Cordova, CA 95742

Log Number: 07-C16199
Order: O6615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B66,68,70,72-0 (15364)		11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	5.0	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Rancho Cordova, CA 95742

Log Number: 07-C16200
Order: O6615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B-93,95,97,99-0 (15387)		11/27/07@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	2.9	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

Phase 3 Sample - Not Applicable to this Report

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

Creek Environmental Laboratories, Inc.

Chain-of-Custody

141 Suburban Road, Suite C-5, San Luis Obispo, CA 93401 phone (805) 545-9838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com

Order # 06615

- Please Print in Pen

☐ DW EDT ☐ LUFT EDF ☐ Custom EDD

Client Name GEOCON CONSULTANTS	**Contact** IAN STEVENSON	**Phone** 916-852-9118	**Due Date:** 24Hr 48Hr Other (Normal TAT)
Address City State Zip		Fax	Cell Beeper
Project Name/Number HWY 50 SI / S9300-06-22 Phase 1		PO# S9300-06-22	Copies To:
Bill to: (if different from above) Address		City	State Zip

Sampler Name (Print) Ian Stevenson

Comments:

Matrix Key: DW = Drinking Water AQ = Aqueous SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix	# of Bottles	Preservative / Type Bottles	Creek Lab Sample #
B1, 3, 5, 7-0 (15312)	11-26-07	STLC Pb	SL	1	BAGS	16193
B10, 12, 14-0 (15321)	11-26-07	"	"	1	"	16194
B12, 14-2 (15323)	11-26-07	"	"	1	"	16195
B43, 44, 45-0 (15342)	11-26-07	"	"	1	"	16196
B50, 52, 54, 56-0 (15352)	11-27-07	"	"	1	"	16197
B59, 61, 63, 65-0 (15361)	11-27-07	"	"	1	"	16198
B66, 68, 70, 72-0 (15364)	11-27-07	"	"	1	"	16199
B-93, 95, 97, 99-0 (15387)	11-27-07	"	"	1	"	16200

RELINQUISHED BY (Sign)	(Print)	(Organization)	DATE/TIME	RECEIVED BY (Sign)	(Print)	(Organization)
			12-17-07 5:00 pm		JUDY WENSKOFF	Creek Environmental Laboratories, Inc.

FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier: Sample Conditions: **Temp:** Intact: Y/ N Custody Sealed: Y/ N

REMARKS

CREEK ENVIRONMENTAL LABORATORIES, INC.
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Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 08-C2981
Order: P1138
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 03/04/08
Printed: 03/14/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B151, 153, 155, 161-0 (925)	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	5.5	0.04	1	mg/L	EPA 6020	03/13/08	03/12/08	5305

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Ian Stevenson
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Rancho Cordova, CA 95742

Log Number: 08-C2982
Order: P1138
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 03/04/08
Printed: 03/14/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B151, 153, 155, 161-2 (927)	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	2.1	0.04	1	mg/L	EPA 6020	03/13/08	03/12/08	5305

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Ian Stevenson
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Rancho Cordova, CA 95742

Log Number: 08-C2983
Order: P1138
Project: Highway 50 SI/S9300-06-22 Phase 2
Received: 03/04/08
Printed: 03/14/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B163, 165, 167, 169-0 (931)	Ian Stevenson	01/15/08@	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	2.4	0.04	1	mg/L	EPA 6020	03/13/08	03/12/08	5305

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

CREEK ENVIRONMENTAL LABORATORIES, INC.
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Quality Control Results

Order No.: P1138

Laboratory Reagent Blank

Analyte	Method	Results	Units	Batch
Lead, STLC extract	EPA 6020	< 0.04	mg/L	5305

Laboratory Known Analysis (LCS)

Analyte	Method	Recovery	Spike Amount	Units	Recovery Limits	Batch
Lead, STLC extract	EPA 6020	100%	5.0	mg/L	75 - 125	5305

Matrix Spike/Matrix Spike Duplicates

Analyte	Method	MS Rec.	MSD Rec.	RPD	Matrix Sample	Spike Amount	Units	Recovery Limits	RPD Limit	Batch
Lead, STLC extract	EPA 6020	100%	98%	1	08-C2982	5.0	mg/L	75 - 125	20	5305

Sample Duplicate

Analyte	Method	Sample ID	Sample Value	Sample Duplicate	RPD	Units	RPD Limit	Batch
Lead, STLC extract	EPA 6020	08-C2981	5.5	5.7	3	mg/L	20.	5305

Creek Environmental Laboratories, Inc. Chain-of-Custody

141 Suburban Road, Suite C-5, San Luis Obispo, CA 93401 phone (805) 545-9838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com

Order # P1138

- Please Print in Pen ☐ DW EDT ☐ LUFT EDF ☐ Custom EDD

Client Name GEOCON	Contact IAN STEVENSON	Phone 916-852-9118	Due Date: 24Hr 48Hr Other Normal TAT
Address City State Zip		Fax	Cell Beeper
Project Name/Number		PO#	Copies To:
Bill to: (if different from above)	Address	City	State Zip
Sampler Name (Print) IAN STEVENSON	Comments:		Matrix Key: DW = Drinking Water AQ = Aqueous SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix	# of Bottles	Preservative / Type Bottles	Creek Lab Sample #
B157, 153, 155, 161-0 (925)	1-15-08	STLC Pb	SL	1	Baggie	2981
B157, 153, 155, 161-2 (927)	1-15-08	1	1	1	1	2982
B163, 165, 167, 169-0 (931)	1-16-08	1	1	1	1	2983

RELINQUISHED BY (Sign)	(Print)	(Organization)	DATE/TIME	RECEIVED BY (Sign)	(Print)	(Organization)
			1-4-08 17:15		JUDY WENSWORTH	Creek Environmental Laboratories, Inc.

FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier: Sample Conditions: Temp: Intact: Y/N Custody Sealed: Y/N

REMARKS e mail results to stevenson@geoconinc.com

EMSL Analytical, Inc
2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577
Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **Ian Stevenson**
Geocon Consultants
3160 Gold Valley Dr.
Suite 800
Rancho Cordova, CA 95742

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **S9300-06-22, Highway 50 SI, Phase 2**

Customer ID: GECN80
Customer PO: S9300-06-22
Received: 01/22/08 11:30 AM
EMSL Order: 090800637

EMSL Proj: S9300-06-**
Analysis Date: 2/4/2008
Report Date: 2/4/2008

PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
NOA1 COMPOSITE *090800637-0001*	NOA16-0, 17-0, 18-0, 19-0, 20-0, 182-0, 181-0	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA2 COMPOSITE *090800637-0002*	NOA18-2, 20-2, 182-2, 181-2	Yellow Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA3 COMPOSITE *090800637-0003*	NOA50-0, 51-0, 52-0, 177-0, 178-0, 179-0, 180-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA4 COMPOSITE *090800637-0004*	NOA50-2, 51-2, 52-2, 177-2, 178-2, 179-2, 180-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA5 COMPOSITE *090800637-0005*	NOA53-0, 54-0, 55-0, 56-0, 174-0, 175-0, 176-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA6 COMPOSITE *090800637-0006*	NOA55-2, 176-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA7 COMPOSITE *090800637-0007*	NOA57-0, 58-0, 59-0, 60-0, 61-0, 170-0, 171-0, 172	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA8 COMPOSITE *090800637-0008*	NOA57-2, 58-2, 170-2, 171-2, 172-2, 173-2	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Analyst(s)

Jason Mcgriff (11)
Yulia Grozman (8)

Baojia Ke, Laboratory Manager
or other approved signatory

EMSL Analytical, Inc
2235 Polvorosa Ave., Suite 230 San Leandro, CA 94577
Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **Ian Stevenson**
Geocon Consultants
3160 Gold Valley Dr.
Suite 800
Rancho Cordova, CA 95742

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **S9300-06-22, Highway 50 SI, Phase 2**

Customer ID: GECN80
Customer PO: S9300-06-22
Received: 01/22/08 11:30 AM
EMSL Order: 090800637

EMSL Proj: S9300-06-**
Analysis Date: 2/4/2008
Report Date: 2/4/2008

PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
NOA9 COMPOSITE *090800637-0009*	NOA62-0, 63-0, 64-0, 167-0, 168-0, 169-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA10 COMPOSITE *090800637-0010*	NOA62-2, 63-2, 64-2, 167-2, 168-2, 169-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA11 COMPOSITE *090800637-0011*	NOA65-0, 66-0, 67-0, 68-0, 162-0, 163-0, 164-0, 16	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA12 COMPOSITE *090800637-0012*	NOA66-2, 67-2, 68-2, 162-2, 163-2, 164-2, 165-2, 1	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA13 COMPOSITE *090800637-0013*	NOA69-0, 70-0, 71-0, 72-0, 154-0,155-0,160-0,161-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA14 COMPOSITE *090800637-0014*	NOA69-2, 70-2, 71-2, 72-2, 154-2, 155-2, 161-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA15 COMPOSITE *090800637-0015*	NOA73-0, 74-0, 75-0, 76-0, 151-0, 152-0, 153-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA16 COMPOSITE *090800637-0016*	NOA73-2, 74-2, 75-2, 76-2, 151-2, 153-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Analyst(s)

Jason Mcgriff (11)
Yulia Grozman (8)

Baojia Ke, Laboratory Manager
or other approved signatory

EMSL Analytical, Inc
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Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **S9300-06-22, Highway 50 SI, Phase 2**

Customer ID: GECN80
Customer PO: S9300-06-22
Received: 01/22/08 11:30 AM
EMSL Order: 090800637

EMSL Proj: S9300-06-**
Analysis Date: 2/4/2008
Report Date: 2/4/2008

PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
NOA17 COMPOSITE *090800637-0017*	NOA77-0, 78-0, 79-0, 80-0, 147-0,148-0,149-0,150-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA18 COMPOSITE *090800637-0018*	NOA72-2, 78-2, 79-2, 80-2, 147-2,148-2,149-2,150-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA19 COMPOSITE *090800637-0019*	NOA81-0, 82-0, 83-0, 84-0,142-0,143-0,144-0,146-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA20 COMPOSITE *090800637-0020*	NOA81-2, 82-2, 83-2, 84-2, 192-2,193-2,144-2,146-2	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA21 COMPOSITE *090800637-0021*	NOA85-0, 86-0, 87-0, 88-0, 138-0,139-0,140-0,141-0	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA22 COMPOSITE *090800637-0022*	NOA-85-2, 86-2, 87-2, 88-2,182-2,139-2,140-2,141-2	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA23 COMPOSITE *090800637-0023*	NOA89-0, 90-0, 91-0, 134-0, 135-0, 136-0, 137-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA24 COMPOSITE *090800637-0024*	NOA89-2, 91-2, 134-2, 136-2, 137-2	Yellow Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**<0.25% Chrysotile**

Analyst(s)

Jason Mcgriff (11)
Yulia Grozman (8)

Baojia Ke, Laboratory Manager
or other approved signatory

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EMSL Proj: S9300-06-**
Analysis Date: 2/4/2008
Report Date: 2/4/2008

PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Location**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
NOA25 COMPOSITE *090800637-0025*	NOA46-0, 47-0, 48-0, 49-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA26 COMPOSITE *090800637-0026*	NOA46-2, 47-2, 48-2, 49-2	Yellow Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA27 COMPOSITE *090800637-0027*	NOA187-0, 188-0, 189-0, 190-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA28 COMPOSITE *090800637-0028*	NOA187-2, 188-2, 189-2, 190-2	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA183 *090800637-0029*	Rock chip	Grayish Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Analyst(s)

Jason Mcgriff (11)
Yulia Grozman (8)

Baojia Ke, Laboratory Manager
or other approved signatory

THIS IS THE LAST PAGE OF THE REPORT.

90800637

Chain of Custody

Asbestos Lab Services

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Company:	Geocon Consultants	*Bill To:*	Geocon Consultants
Address1:	3160 Gold Valley Drive #800	*Address1:*	3160 Gold Valley Drive #800
Address2:		*Address2:*	
City, State:	Rancho Cordova, CA	*City, State:*	Rancho Cordova, CA
Zip/Post Code:	95754	*Zip/Post Code:*	95754
Country:		*Country:*	
Contact Name:	Ian Stevenson	*Attn:*	Ian Stevenson
Phone:	916-852-9118	*Phone:*	916-852-9118
Fax:	916-852-9132	*Fax:*	916-852-9132
Email:	stevenson@geoconinc.com	*Email:*	stevenson@geoconinc.com
EMSL Rep:		*P.O. Number:*	
Project Name/Number:	Highway 50 SI S9300-06-22 Phase 2		

MATRIX			TURNAROUND			
☐ Air	☒ Soil	☐ Micro-Vac	☐ 3 Hours	☐ 6 Hours	☐ Same Day or 12 Hours*	☐ 24 Hours (1 day)
☐ Bulk	☐ Drinking Water		☐ 48 Hours (2 days)	☐ 72 Hours (3 days)	☐ 96 Hours (4 days)	☐ 120 Hours (5 days)
☐ Wipe	☐ Wastewater		☒ 144+ hours (6-10 days)			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

***12 hours (must arrive by 11:00a.m. Mon -Fri.), Please Refer to Price Quote**

29T

PCM - Air
- ☐ NIOSH 7400(A) Issue 2: August 1994
- ☐ OSHA w/TWA
- ☐ Other:

TEM Air
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402
- ☐ EPA Level II

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2

PLM - Bulk
- ☐ EPA 600/R-93/116
- ☐ EPA Point Count
- ☐ NY Stratified Point Count
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ NIOSH 9002:
- ☐ EMSL Standard Addition:

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP - 1988-02
- ☐ TEM NOB (Gravimetric) NYS 198.4
- ☐ EMSL Standard Addition:

TEM Microvac/Wipe
- ☐ ASTM D 5755-95 (quantative method)
- ☐ Wipe Qualitative

XRD
- ☐ Asbestos
- ☐ Silica NIOSH 7500

SEM Air or Bulk
- ☐ Qualitative
- ☐ Quantitative

PLM Soil
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram

OTHER
- ☒ CARB 435

Received at EMSL Analytical, Inc.
San Leandro, CA (888) 455-3675
By D.B. Kedo
Date 1/2008 @ 11:30 am pm

P/U

See following pages for Level.

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187

Phase 2

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Fax: (510) 895-3680
http://www.emsl.com

Please print all information legibly.

Client Sample # (s) NOA134-183, NOA191-194, NOA187-190 **Total Samples #:** 29 (185)

Relinquished: [signature] **Date:** 1/22/08 **Time:** 0934

Received: [signature] **Date:** 1/22/08 **Time:** 11:30am P/U

Relinquished: _____ **Date:** _____ **Time:** _____

Received: _____ **Date:** _____ **Time:** _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA 1	NOA16-0, NOA17-0, NOA18-0, NOA		A
	19-0, NOA20-0, NOA182-0, NOA181-0		
NOA 2	NOA18-2, NOA20-2, NOA182-2, NOA181-2		A
NOA 3	NOA50-0, NOA51-0, NOA52-0		A
	NOA177-0, NOA178-0, NOA179-0, NOA180-0		
NOA 4	NOA50-2, NOA51-2, NOA52-2		A
	NOA177-2, NOA178-2, NOA179-2,	NOA180-2	
NOA 5	NOA53-0, NOA54-0, NOA55-0		A
	NOA56-0, NOA174-0, NOA175-0		
	NOA176-0		

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http://www.emsl.com

Please print all information legibly.

Client Sample # (s) NOA134-183, NOA187-194 **Total Samples #:** 29/185

Relinquished: _____ **Date:** 1/22/08 **Time:** 0934

Received: _____ **Date:** 1/22/08 **Time:** 11:30 am

Relinquished: _____ **Date:** _____ **Time:** _____

Received: _____ **Date:** _____ **Time:** _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA 6	NOA 55-2, NOA176-2		A
NOA 7	NOA57-0, NOA58-0, NOA59-0		A
	NOA60-0, NOA61-0, NOA170-0		
	NOA171-0, NOA172-0, NOA173-0		
NOA 8	NOA57-2, NOA58-2, NOA170-2		A
	NOA171-2, NOA172-2, NOA173-2		
NOA 9	NOA62-0, NOA63-0, NOA64-0		A
	NOA167-0, NOA168-0, NOA169-0		
NOA 10	NOA62-2, NOA63-2, NOA64-2		A
	NOA167-2, NOA168-2, NOA169-2		

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3567

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Client Sample # (s) NOA134-183, NOA187 - 194 **Total Samples #:** 29/185

Relinquished: _____ **Date:** 1/22/08 **Time:** 0834

Received: _____ **Date:** 1/22/08 **Time:** 11:30 am PW

Relinquished: _____ **Date:** _____ **Time:** _____

Received: _____ **Date:** _____ **Time:** _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA 11	NOA 65-0, NOA 66-0, NOA 67-0		A
	NOA 68-0, NOA 162-0, NOA 163-0,		
	NOA 164-0, NOA 165-0, NOA 166-0		
NOA 12	NOA 66-2, NOA 67-2, NOA 68-2,		A
	NOA 162-2, NOA 163-2, NOA 164-2		
	NOA 165-2, NOA 166-2.		
NOA 13	NOA 69-0, NOA 70-0, NOA 71-0		A
	NOA 72-0, NOA 154-0, NOA 155-0,		
	NOA 160-0, NOA 161-0		
NOA 14	NOA 69-2, NOA 70-2, NOA 71-2, NOA 72-2		A
	NOA 154-2, NOA 155-2, NOA 161-2		

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Client Sample # (s) NOA134-183, NOA187 - 194 **Total Samples #:** 29/185

Relinquished: [signature] **Date:** 1/22/08 **Time:** 0934

Received: [signature] **Date:** 1/22/08 **Time:** 11:30am PW

Relinquished: _____ **Date:** _____ **Time:** _____

Received: _____ **Date:** _____ **Time:** _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA15	NOA73-0, NOA74-0, NOA75-0		A
	NOA76-0, NOA151-0, NOA152-0		
	NOA153-0		
NOA16	NOA73-2, NOA74-2, NOA75-2		A
	NOA76-2, NOA151-2, NOA153-2		
NOA17	NOA77-0, NOA78-0, NOA79-0		A
	NOA80-0, NOA147-0, NOA148-0		
	NOA149-0, NOA150-0		
NOA18	NOA77-2, NOA78-2, NOA79-2		A
	NOA80-2, NOA147-2, NOA148-2,		
	NOA149-2, NOA150-2		

00800637

5 of 7

Chain of Custody

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http://www.emsl.com

Please print all information legibly.

Client Sample # (s) NOA134-183, NOA187 - 194 **Total Samples #:** 29/185

Relinquished: _____ **Date:** 1/22/08 **Time:** 0834

Received: _____ **Date:** 1/22/08 **Time:** 11:30 am PU

Relinquished: _____ **Date:** _____ **Time:** _____

Received: _____ **Date:** _____ **Time:** _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA19	NOA80-0, NOA82-0, NOA83-0		A
	NOA84-0, NOA142-0, NOA143-0		
	NOA144-0, NOA145-0, NOA146-0		
NOA20	NOA81-2, NOA82-2, NOA83-2		A
	NOA84-2, NOA142-2, NOA143-2		
	NOA144-2, NOA145-2, NOA146-2		
NOA21	NOA85-0, NOA86-0, NOA87-0		A
	NOA88-0, NOA138-0, NOA139-0		
	NOA140-0, NOA141-0		
NOA22	NOA85-2, NOA86-2, NOA87-2, NOA88-2		A
	NOA138-2, NOA139-2, NOA140-2, NOA141-2		

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Client Sample # (s) NOA134-183, NOA187 - 194 Total Samples #: 23/185

Relinquished: [signature] Date: 1/22/08 Time: 0934

Received: [signature] Date: 1/22/08 Time: 11:30am PLV

Relinquished: _____ Date: _____ Time: _____

Received: _____ Date: _____ Time: _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA23	NOA89-0, NOA90-0, NOA91-0		A
	NOA134-0, NOA135-0, NOA136-0		
	NOA137-0		
NOA24	NOA89-2, NOA91-2, NOA134-2,		A
	NOA136-2, NOA137-2		
NOA25	NOA46-0, NOA47-0, NOA48-0		A
	NOA49-0		
NOA26	NOA46-2, NOA47-2, NOA48-2		A
	NOA49-2		

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Client Sample # (s) NOA 131-183, NOA 187 - 194 **Total Samples #:** 29/185

Relinquished: _____ **Date:** 1/22/08 **Time:** 0934

Received: _____ **Date:** 1/22/08 **Time:** 11:30 am PLV

Relinquished: _____ **Date:** _____ **Time:** _____

Received: _____ **Date:** _____ **Time:** _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA 27	NOA 187-0, NOA 188-0, NOA 189-0		A
	NOA 190-0		
NOA 28	NOA 187-2, NOA 188-2, NOA 189-2		A
	NOA 190-2		
NOA 183	Rock Chip 1/16/08 1200		A

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Customer ID: GECN80
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EMSL Proj: S9300-06-**
Analysis Date: 2/13/2008
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PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
NOA1 COMPOSITE *090800638-0001*	NOA 92-0, 93-0, 94-0, 95-0,129-0,130-0,131-0,132-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA2 COMPOSITE *090800638-0002*	NOA 92-2, 93-2,95-2,129-2,130-2,131-2,132-2,133-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA3 COMPOSITE *090800638-0003*	NOA96-0,97-0,98-0,99-0,125-0,126-0,127-0,128-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**<0.25% Tremolite**
NOA4 COMPOSITE *090800638-0004*	NOA96-2,97-2,98-2,99-2,125-2,126-2,127-2,128-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA5 COMPOSITE *090800638-0005*	NOA 100-0, 101-0, 124-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA6 COMPOSITE *090800638-0006*	NOA 100-2, 101-2, 124-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA7 COMPOSITE *090800638-0007*	NOA 102-0,103-0,104-0,105-0,106-0,119-0..	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA8 COMPOSITE *090800638-0008*	NOA102-2,104-2,106-2,119-2,120-2,121-2,122-2,123-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Analyst(s)

Nonette Patron (16)
Yulia Grozman (2)

Baojia Ke, Laboratory Manager
or other approved signatory

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Analysis Date: 2/13/2008
Report Date: 2/13/2008

PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
NOA9 COMPOSITE *090800638-0009*	NOA107-0,108-0,109-0,110-0,115-0,116-0,117-0,118-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA10 COMPOSITE *090800638-0010*	NOA107-2,108-2,109-2,110-2,115-2,116-2,117-2,118-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA11 COMPOSITE *090800638-0011*	NOA 110-0, 112-0, 113-0, 114-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA12 COMPOSITE *090800638-0012*	NOA 111-2, 112-2, 114-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA13 COMPOSITE *090800638-0013*	NOA 156-0, 157-0, 158-0, 159-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA14 COMPOSITE *090800638-0014*	NOA 156-2, 157-2, 158-2, 159-32	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA15 COMPOSITE *090800638-0015*	NOA 184-0, 185-0, 186-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**<0.25% Tremolite**
NOA16 COMPOSITE *090800638-0016*	NOA 184-2, 185-2, 186-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**<0.25% Tremolite**

Analyst(s)

Nonette Patron (16)
Yulia Grozman (2)

Baojia Ke, Laboratory Manager
or other approved signatory

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			Non-Asbestos		Asbestos
Sample	**Location**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
NOA17 COMPOSITE *090800638-0017*	NOA 191,192,193,194-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
NOA18 COMPOSITE *090800638-0018*	NOA 191,192,193,194-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Analyst(s)
Nonette Patron (16)
Yulia Grozman (2)

Baojia Ke, Laboratory Manager
or other approved signatory

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Company:	Geocon Consultants	***Bill To:***	Geocon Consultants
Address1:	3160 Gold Valley Drive #800	*Address1:*	3160 Gold Valley Drive #800
Address2:		*Address2:*	
City, State:	Rancho Cordova, CA	*City, State:*	Rancho Cordova, CA
Zip/Post Code:	95754	*Zip/Post Code:*	95754
Country:		*Country:*	
Contact Name:	Ian Stevenson	***Attn:***	Ian Stevenson
Phone:	916-852-9118	*Phone:*	916-852-9118
Fax:	916-852-9132	*Fax:*	916-852-9132
Email:	stevenson@geoconinc.com	*Email:*	stevenson@geoconinc.com
EMSL Rep:		***P.O. Number:***	S9300-06-22
Project Name/Number:	Highway 50 SI S9300-06-22 Phase 3		

MATRIX			TURNAROUND			
☐ Air	☒ Soil	☐ Micro-Vac	☐ 3 Hours	☐ 6 Hours	☐ Same Day or 12 Hours*	☐ 24 Hours (1 day)
☐ Bulk	☐ Drinking Water		☐ 48 Hours (2 days)	☐ 72 Hours (3 days)	☐ 96 Hours (4 days)	☐ 120 Hours (5 days)
☐ Wipe	☐ Wastewater		☒ 144+ hours (6-10 days)			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

***12 hours (must arrive by 11:00a.m. Mon -Fri.), Please Refer to Price Quote**

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PCM - Air
- ☐ NIOSH 7400(A) Issue 2: August 1994
- ☐ OSHA w/TWA
- ☐ Other:

PLM - Bulk
- ☐ EPA 600/R-93/116
- ☐ EPA Point Count
- ☐ NY Stratified Point Count
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ NIOSH 9002:
- ☐ EMSL Standard Addition:

SEM Air or Bulk
- ☐ Qualitative
- ☐ Quantitative

TEM Air
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402
- ☐ EPA Level II

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP - 1988-02
- ☐ TEM NOB (Gravimetric) NYS 198.4
- ☐ EMSL Standard Addition:

PLM Soil
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2

TEM Microvac/Wipe
- ☐ ASTM D 5755-95 (quantative method)
- ☐ Wipe Qualitative

XRD
- ☐ Asbestos
- ☐ Silica NIOSH 7500

OTHER
- ☒ CARB 435

Received at EMSL Analytical, Inc.
San Leandro, CA (888) 455-3675
By EMSL
Date 1/22@11:30 am pm

See following pages for level

Phase 3 90800638 164

Chain of Custody

Asbestos Lab Services

EMSL Analytical, Inc.
Suite 230
2235 Polvorosa Ave
San Leandro,
CA 94577
Phone: (510) 895-3675 (888) 455-3675
Fax: (510) 895-3680
http://www.emsl.com

Please print all information legibly.

Client Sample # (s) NOA104-133, NOA156-159, NOA184-186 Total Samples #: 16 (94)

Relinquished: [signature] Date: 1/22/08 Time: 0921

Received: [signature] Date: 1/22/08 Time: 11:30am P/U

Relinquished: _____ Date: _____ Time: _____

Received: _____ Date: _____ Time: _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA 1	NOA92-0, NOA93-0, NOA94-0		A
	NOA95-0, NOA129-0, NOA130-0		
	NOA131-0, NOA132-0, NOA133-0		
NOA 2	NOA92-2, NOA93-2, NOA95-2		A
	NOA129-2, NOA130-2, NOA131-2		
	NOA132-2, NOA133-2,		
NOA 3	NOA96-0, NOA97-0, NOA98-0		A
	NOA99-0, NOA125-0, NOA126-0		
	NOA127-0, NOA128-0		
NOA4	NOA96-2, NOA97-2, NOA98-2, NOA99-2		A
	NOA125-2, NOA126-2, NOA127-2, NOA128-2		

908006638 2 of 4

Chain of Custody

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Fax: (510) 895-3680
http://www.emsl.com

Please print all information legibly.

Client Sample # (s) NOA104-133, NOA156 - 159, NOA184 - 186 **Total Samples #:** 16 (94)

Relinquished: _____ **Date:** 1/22/08 **Time:** 0921

Received: _____ **Date:** 1/22/08 **Time:** 11:30am PU

Relinquished: _____ **Date:** _____ **Time:** _____

Received: _____ **Date:** _____ **Time:** _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA 5	NOA 100-0, NOA101-0, NOA124-0		A
NOA 6	NOA100-2, NOA101-2, NOA124-2		A
NOA 7	NOA102-0, NOA103-0, NOA104-0, NOA105-0		A
	NOA106-0, NOA119-0, NOA120-0		
	NOA121-0, NOA122-0, NOA123-0		
NOA 8	NOA102-2, NOA104-2, NOA106-2		A
	NOA119-2, NOA120-2, NOA121-2, NOA122-2		
	NOA123-2.		
NOA 9	NOA107-0, NOA108-0, NOA109-0, NOA110-0		A
	NOA115-0, NOA116-0, NOA117-0, NOA118-0		

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Chain of Custody

Asbestos Lab Services

EMSL Analytical, Inc.
Suite 230
2235 Polvorosa Ave
San Leandro,
CA 94577
Phone: (510) 895-3675 (888) 455-3675
Fax: (510) 895-3680
http://www.emsl.com

Please print all information legibly.

Client Sample # (s) NOA104-133, NOA156-159, NOA184-186 **Total Samples #:** 16 (94)

Relinquished: [signature] **Date:** 1/22/08 **Time:** 0921

Received: [signature] **Date:** 1/22/08 **Time:** 11:30am P/U

Relinquished: _____ **Date:** _____ **Time:** _____

Received: _____ **Date:** _____ **Time:** _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA10	NOA107-2, NOA108-2, NOA109-2		A
	NOA110-2, NOA115-2, NOA116-2		
	NOA117-2, NOA118-2		
NOA11	NOA111-0, NOA112-0, NOA113-0		A
	NOA114-0		
NOA12	NOA111-2, NOA112-2, NOA114-2		A
NOA13	NOA156-0, NOA157-0, NOA158-0		A
	NOA159-0		
NOA14	NOA156-2, NOA157-2, NOA158-2		A
	NOA159-2		

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Chain of Custody

Asbestos Lab Services

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Fax: (510) 895-3680
http://www.emsl.com

Please print all information legibly.

Client Sample # (s) NOA104-133, NOA156-159, NOA184-186 **Total Samples #:** 16 (94)

Relinquished: _____ **Date:** 1/22/08 **Time:** 0921

Received: _____ **Date:** 1/22/08 **Time:** 11:30am P/U

Relinquished: _____ **Date:** _____ **Time:** _____

Received: _____ **Date:** _____ **Time:** _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	
NOA15	NOA184-0, NOA185-0, NOA186-0		Level A
NOA16	NOA184-2, NOA185-2, NOA186-2		A

Nonette Patron

From: Daniel Kocher [dkocher@emsl.com]
Sent: Monday, February 11, 2008 4:09 PM
To: Nonette Patron; Jason McGriff; Michelle Embers
Cc: stevenson@geoconinc.com
Subject: RE: 090800638 / PLM CARB 435 / S9300-06-22, Highway 50, Phase 3

Daniel B. Kocher
EMSL Analytical, Inc.
San Leandro Branch CA

From: Ian Stevenson <stevenson@geoconinc.com>
Sent: Monday, February 11, 2008 4:47 PM
To: 'Daniel Kocher' <dkocher@emsl.com>
Subject: RE: 090800638 / PLM CARB 435 / S9300-06-22, Highway 50, Phase 3

Hi Daniel,

Please composite 191 through 194 as 191,192,193,194-0 and 191,192,193,194-2. No analysis is needed for NOA 94-2.

all 0 #17

all 2 #18

From: Daniel Kocher [mailto:dkocher@emsl.com]
Sent: Sunday, February 10, 2008 11:36 AM
To: Ian Stevenson
Cc: Nonette Patron; Jason McGriff; Michelle Embers
Subject: RE: 090800638 / PLM CARB 435 / S9300-06-22, Highway 50, Phase 3

Ian:

Sounds good. Let us know when you decide. The other phase 2 & 3 parts are all complete and sent off.

Daniel B. Kocher
EMSL Analytical, Inc.
San Leandro Branch CA

From: Ian Stevenson <stevenson@geoconinc.com>
Sent: Friday, February 08, 2008 4:27 PM
To: 'Kocher, Daniel' <dkocher@EMSL.com>
Subject: RE: 090800638 / PLM CARB 435 / S9300-06-22, Highway 50, Phase 3

Hi Daniel,

Sorry for the delayed response, I have been out in the field for the last week and did not have access to email. I will review the dailies for the job on Monday and advise on how to composite the samples not listed on the COC. Have a good weekend.

From: Kocher, Daniel [mailto:dkocher@EMSL.com]
Sent: Monday, February 04, 2008 2:42 PM

To: Ian Stevnenson, Geocon Consulting
Cc: Patron, Nonette; EMSL Lab - San Leandro; Embers, Michelle
Subject: 090800638 / PLM CARB 435 / S9300-06-22, Highway 50, Phase 3

Ian:

We are working on the analysis for your project 090800638 / PLM CARB 435 / S9300-06-22, Highway 50, Phase 3 and we did encounter a few samples not on the COC:

NOA 94-2
NOA 191-0
NOA 192-0
NOA 193-0
NOA 194-0
NOA 191-2
NOA 192-2
NOA 193-2
NOA 194-2

Do you want us to mill these and analyze as separate sample, or should they be grouped in some way?

All other samples for Phase 2 & 3 matched up exactly as the COCs listed. Let us know. Thank you.

Daniel B. Kocher
EMSL Analytical, Inc.
San Leandro Branch, CA

Reporting Received
☑ Email 2/13/08 by LA 1:50pm
☐ Fax __/__/__ by ____
☐ Verbal __/__/__ by ____
☐ Mail __/__/__ by ____

2/12/2008

Data Entry - LA 2/13/08

APPENDIX C

DESCRIPTION OF DATA SET

Project Name:	Highway 50 Site Investigation PM 2.90 to 8.79
Project No.:	S9300-06-22
Sample Depth:	0.0 ft (Median)

DATA SET STATISTICS

Number of Valid Samples	24
Number of Unique Samples	17
Minimum	3.1
Maximum	150
Mean	39.09583333
Median	32
Standard Deviation	31.94440114
Variance	1020.444764
Coefficient of Variation	0.817079428
Skewness	2.010963926
Mean of log data	3.369400213
Standard Deviation of log data	0.836499598
90% Non-parametric UCLs	
Standard Bootstrap UCL	47.4924035
95% Non-parametric UCLs	
Standard Bootstrap UCL	49.53784488

DESCRIPTION OF DATA SET

Project Name:	Highway 50 Site Investigation PM 2.90 to 8.79
Project No.:	S9300-06-22
Sample Depth:	1.0 ft (Median)

DATA SET STATISTICS

Number of Valid Samples	24
Number of Unique Samples	17
Minimum	0.5
Maximum	20
Mean	3.05
Median	2.05
Standard Deviation	4.087521
Variance	16.707826
Coefficient of Variation	1.340171
Skewness	3.466052
Mean of log data	0.641715
Standard Deviation of log data	0.938836
90% Non-parametric UCLs	
Standard Bootstrap UCL	4.102515819
95% Non-parametric UCLs	
Standard Bootstrap UCL	4.368129641

DESCRIPTION OF DATA SET

Project Name:	Highway 50 Site Investigation PM 2.90 to 8.79
Project No.:	S9300-06-22
Sample Depth:	2.0 ft (Median)

DATA SET STATISTICS

Number of Valid Samples	23
Number of Unique Samples	14
Minimum	0.5
Maximum	56
Mean	3.960869565
Median	1.4
Standard Deviation	11.406567
Variance	130.109763
Coefficient of Variation	2.879814
Skewness	4.711918
Mean of log data	0.375345
Standard Deviation of log data	1.076419
90% Non-parametric UCLs	
Standard Bootstrap UCL	7.002887098
95% Non-parametric UCLs	
Standard Bootstrap UCL	7.771822899

DESCRIPTION OF DATA SET

Project Name:	Highway 50 Site Investigation PM 2.90 to 8.79
Project No.:	S9300-06-22
Sample Depth:	Samples from borings B46 thru B49 and B187 thru B194 (Soundwall)

DATA SET STATISTICS

Number of Valid Samples	9
Number of Unique Samples	9
Minimum	0.9
Maximum	95
Mean	21.66666667
Median	2.3
Standard Deviation	33.54839788
Variance	1125.495
Coefficient of Variation	1.548387594
Skewness	1.693823105
Mean of log data	1.718373424
Standard Deviation of log data	1.820027327
90% Non-parametric UCLs	
Standard Bootstrap UCL	35.56311793
95% Non-parametric UCLs	
Standard Bootstrap UCL	38.73849723